

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271266

Luminaire Tested: **XNV-AF-01-LED-U-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T3-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.6 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

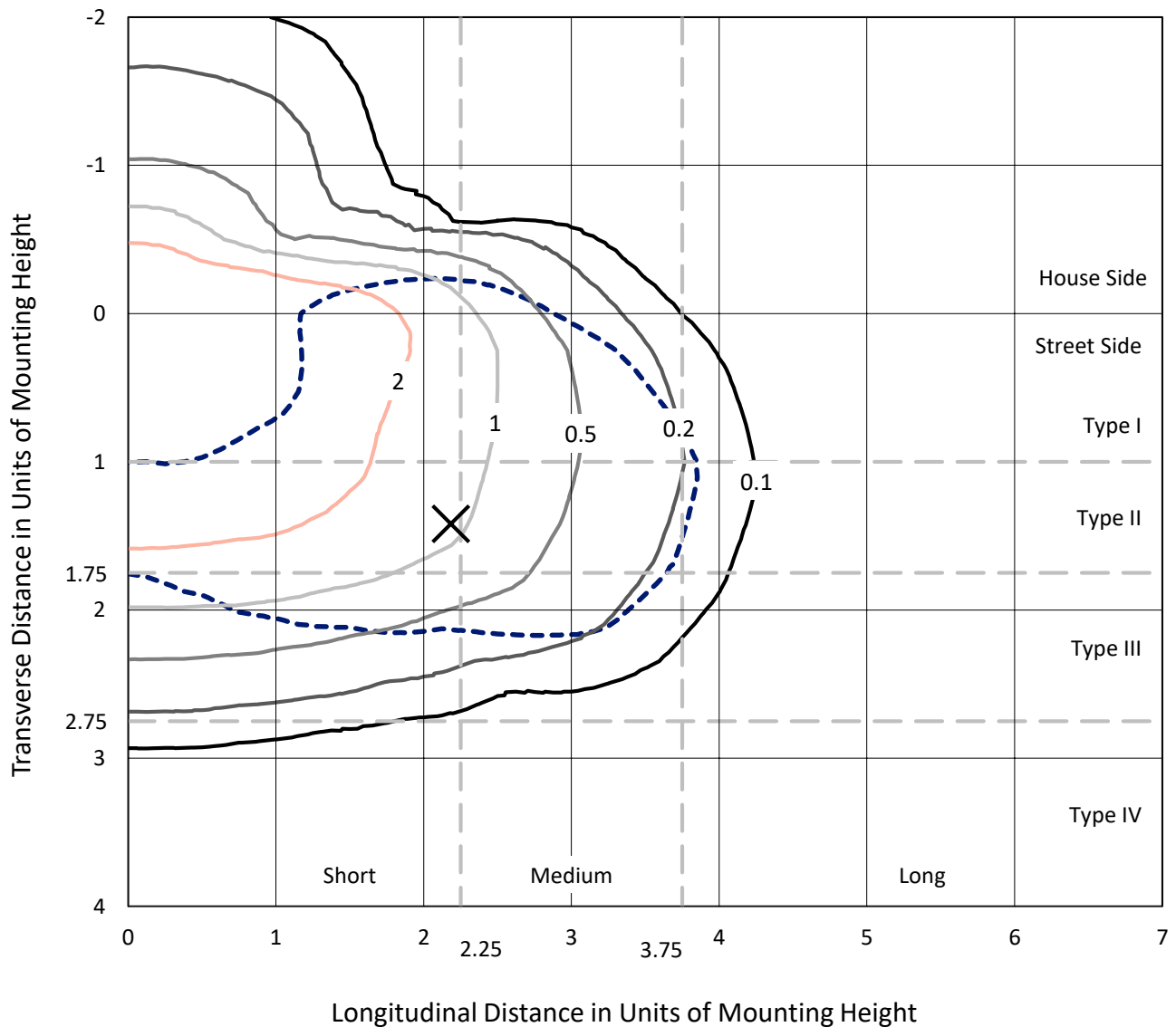
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

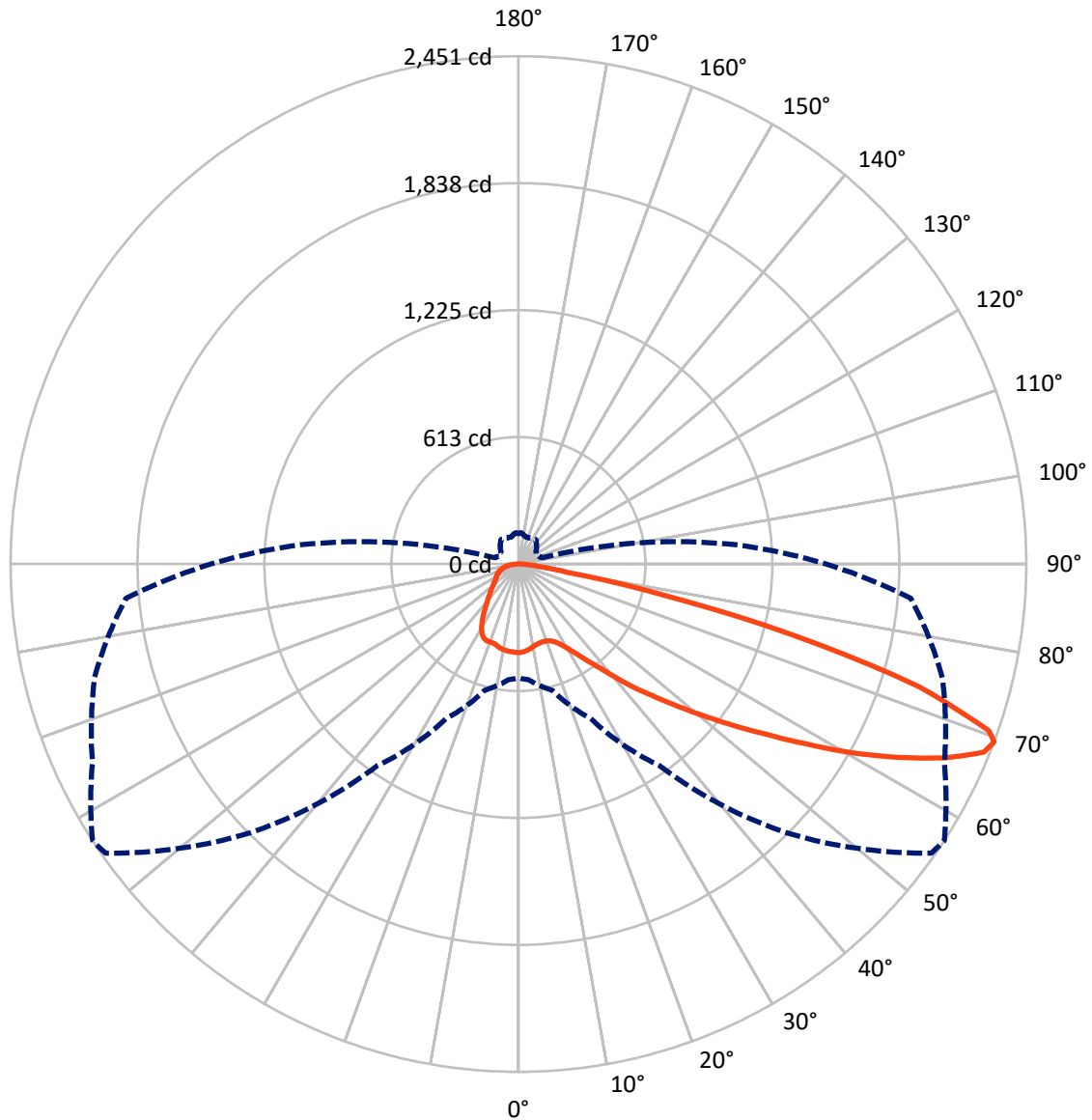
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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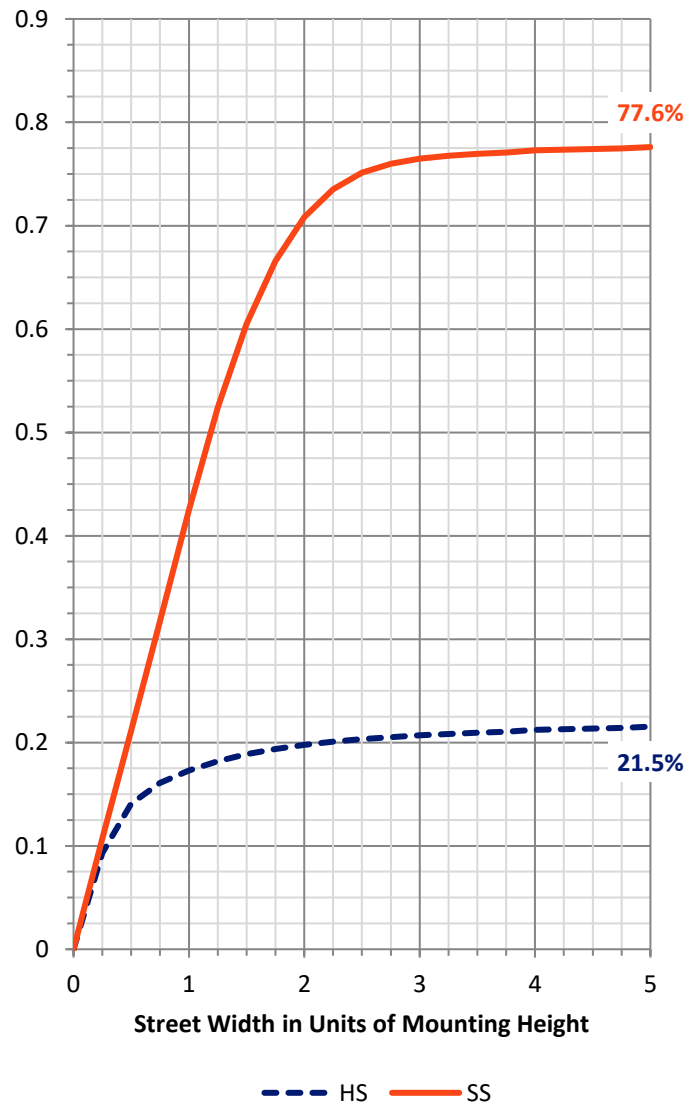
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.1	0.0	764.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	2698.6	0.0	2698.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	3462.6	0.0	3462.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	1.2
10°-20°	113.9	3.3
20°-30°	189.4	5.5
30°-40°	309.4	8.9
40°-50°	522.1	15.1
50°-60°	812.2	23.5
60°-70°	967.5	27.9
70°-80°	450.7	13.0
80°-90°	57.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3462.6	100.0
0°-180°	3462.6	100.0



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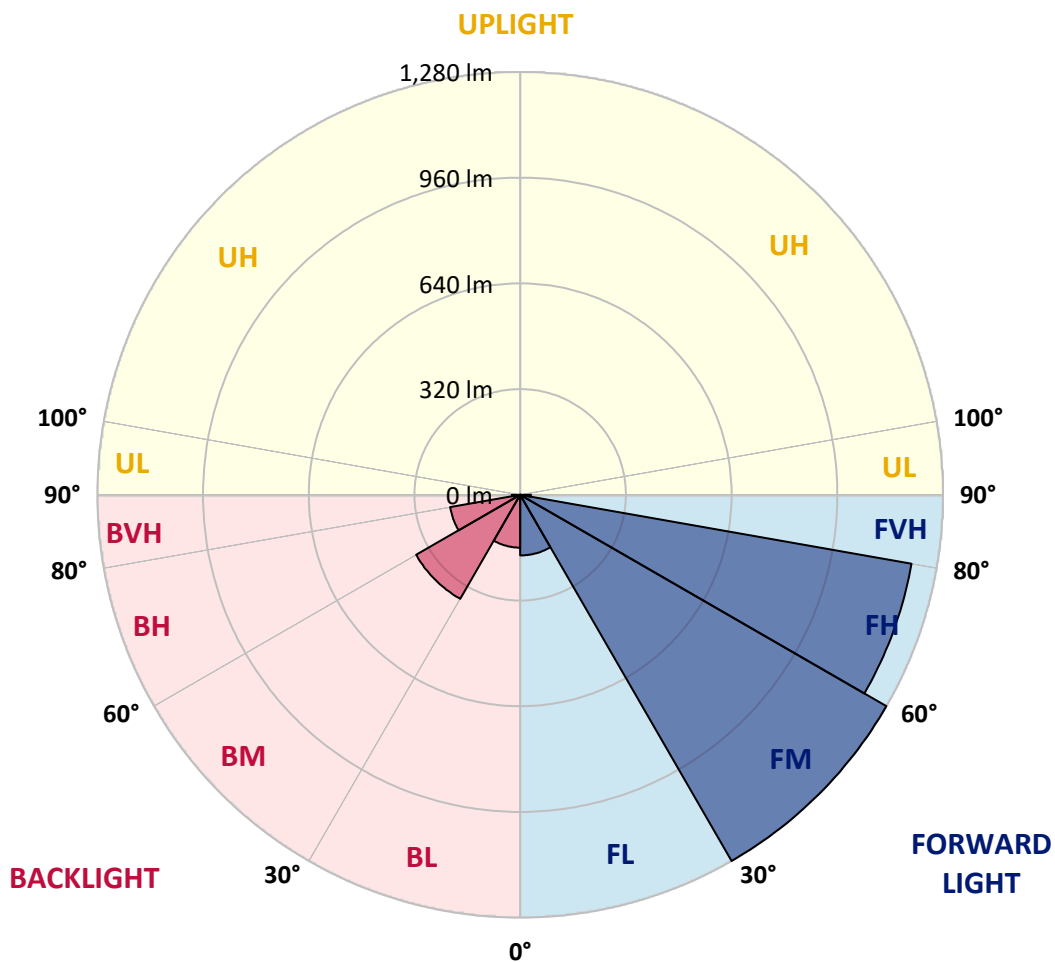
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.4	5.3			
FM	(30°-60°)	1280.0	37.0			
FH	(60°-80°)	1202.9	34.7			G1/1800
FVH	(80°-90°)	32.2	0.9			G1/100
BL	(0°-30°)	160.0	4.6	B1/500		
BM	(30°-60°)	363.6	10.5	B1/1000		
BH	(60°-80°)	215.3	6.2	B1/500		G1/500
BVH	(80°-90°)	25.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	425.3	425.3	426.5	426.5	426.5	426.1	424.8	425.2	424.3	423.6	422.6
5°	416.8	417.3	418.5	419.0	419.7	419.9	419.9	419.7	419.9	419.9	419.1
7.5°	404.7	405.2	406.8	407.7	409.6	411.5	412.3	412.3	413.4	414.3	414.6
10°	397.5	397.5	398.4	398.4	399.9	400.9	403.7	403.5	406.6	409.4	410.7
12.5°	396.6	396.6	396.2	394.5	393.6	393.5	396.3	396.8	401.5	406.6	409.0
15°	399.4	399.4	398.2	395.1	391.8	390.1	393.1	393.9	399.0	405.0	408.8
17.5°	408.8	408.5	405.7	399.4	393.6	391.3	392.2	393.1	397.7	404.5	409.2
20°	429.4	429.4	423.2	412.0	401.9	396.2	394.9	395.4	398.8	405.2	411.2
22.5°	465.5	466.2	455.1	436.4	419.4	407.2	401.9	402.6	404.1	410.3	417.1
25°	518.7	517.0	501.3	474.8	448.3	427.5	416.5	417.3	417.3	422.9	429.8
27.5°	575.0	575.5	552.8	524.5	489.4	458.5	441.2	440.9	440.7	446.3	453.6
30°	638.6	638.9	612.7	579.9	539.8	500.1	474.1	473.9	472.0	478.8	488.4
32.5°	708.3	708.0	677.7	640.6	596.1	551.1	517.5	517.2	515.6	524.9	536.5
35°	785.4	785.4	755.2	709.7	661.5	611.3	572.4	572.2	573.1	585.6	596.6
37.5°	878.4	880.2	844.0	788.5	736.0	682.5	637.1	635.8	629.2	650.5	668.3
40°	975.2	980.7	943.0	878.4	821.6	766.3	716.3	715.4	709.7	732.2	761.3
42.5°	1080.0	1092.7	1050.7	984.7	922.9	863.2	812.8	810.5	788.4	823.6	869.0
45°	1217.5	1225.6	1164.9	1105.0	1046.7	978.8	918.8	905.9	883.7	928.8	987.9
47.5°	1311.0	1307.0	1269.1	1229.1	1191.5	1126.4	1034.4	1017.7	990.7	1050.6	1115.5
50°	1369.0	1372.0	1350.7	1348.7	1346.6	1301.3	1164.7	1144.8	1113.4	1184.4	1260.2
52.5°	1407.5	1394.3	1398.1	1443.3	1498.2	1476.5	1312.2	1290.0	1257.8	1328.8	1414.3
55°	1391.6	1374.1	1409.0	1498.2	1626.9	1631.9	1473.9	1451.1	1423.6	1482.2	1599.6
57.5°	1325.4	1334.2	1389.0	1512.9	1715.0	1771.0	1660.0	1636.7	1582.5	1642.0	1775.7
60°	1232.6	1250.1	1334.2	1489.5	1776.6	1879.4	1864.2	1848.6	1755.5	1797.6	1960.6
62.5°	1132.9	1150.1	1253.3	1449.3	1748.8	1975.5	2064.6	2055.1	1946.4	1947.4	2077.8
65°	985.4	992.4	1098.0	1339.8	1671.9	2062.1	2265.2	2256.7	2128.9	2075.4	2110.7
67.5°	744.2	753.0	839.7	1057.7	1437.8	2015.1	2425.5	2424.0	2238.5	2122.9	2032.7
69°	549.6	560.5	631.1	821.1	1188.8	1836.0	2433.0	2450.9	2268.2	2117.9	1900.8
70°	402.1	414.6	480.0	651.7	990.2	1638.1	2368.4	2407.0	2256.9	2087.1	1797.9
72.5°	170.9	175.1	207.2	294.1	502.3	987.9	1939.9	2021.0	2038.3	1870.1	1404.6
75°	107.1	108.3	121.0	150.9	223.5	408.5	1256.3	1367.0	1521.9	1450.9	940.3
77.5°	80.7	81.7	89.1	103.9	138.8	152.5	582.8	695.0	871.6	853.5	467.9
80°	61.9	62.5	67.5	75.5	97.7	95.5	189.2	237.6	363.8	321.1	165.6
82.5°	48.6	48.8	53.0	54.5	68.4	64.3	95.0	105.7	147.0	122.2	80.8
85°	42.9	43.7	47.9	40.0	43.7	38.7	52.1	56.6	78.1	73.7	30.6
87.5°	22.0	23.0	40.2	34.1	22.0	18.3	22.8	24.7	31.7	34.3	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	422.7	422.9	423.6	424.8	426.5	428.8	431.4	434.1	435.6	436.8	436.2
5°	419.1	419.4	420.8	422.7	425.0	428.3	432.8	436.0	438.6	440.0	439.8
7.5°	414.7	415.5	418.2	420.2	423.5	426.1	429.6	432.8	435.1	436.8	436.4
10°	411.5	412.1	415.5	418.3	420.9	421.5	420.8	419.9	419.7	420.8	420.2
12.5°	409.8	411.2	414.3	416.4	415.1	411.1	406.2	404.1	403.5	405.7	405.9
15°	410.3	411.5	414.1	412.9	406.8	399.7	397.1	398.6	399.9	401.3	401.5
17.5°	411.5	412.1	412.9	407.9	399.4	394.9	393.9	392.4	388.3	386.2	385.9
20°	413.4	414.3	413.2	405.5	397.9	391.8	381.2	371.4	362.5	357.5	355.5
22.5°	420.2	420.9	417.6	410.0	398.6	378.5	356.8	340.5	326.5	319.0	316.2
25°	433.8	434.9	430.3	420.8	390.7	355.4	324.9	302.8	285.3	276.1	273.8
27.5°	457.5	458.7	453.6	428.8	372.0	324.6	287.7	265.8	250.7	242.9	241.9
30°	493.0	494.5	489.9	428.5	343.6	285.3	251.3	238.5	229.8	224.5	224.3
32.5°	542.2	548.0	528.9	420.9	308.6	245.6	223.9	219.5	215.2	211.7	211.7
35°	604.7	618.3	567.5	405.2	270.0	218.6	208.5	204.4	199.1	195.3	194.8
37.5°	679.5	700.5	594.9	377.3	236.8	205.5	199.3	192.4	184.1	176.6	174.9
40°	782.2	786.9	608.5	331.8	211.9	198.3	190.6	181.9	171.3	163.1	162.2
42.5°	885.2	869.2	605.8	283.1	197.7	192.0	181.7	172.2	162.8	155.9	155.9
45°	1002.5	941.1	585.6	234.1	185.0	184.6	173.6	164.5	157.2	152.1	150.9
47.5°	1114.5	1005.6	550.9	197.9	171.5	177.3	168.3	160.9	154.2	149.4	148.5
50°	1250.7	1080.2	513.9	172.7	158.7	170.9	166.0	162.2	155.9	147.4	146.6
52.5°	1385.9	1167.5	485.3	153.6	147.4	165.7	167.4	167.9	161.9	145.4	144.3
55°	1531.2	1261.0	455.1	138.8	138.1	163.4	170.5	170.0	167.2	145.9	144.1
57.5°	1669.3	1354.7	410.0	128.4	130.9	160.9	171.1	164.0	158.9	148.1	145.2
60°	1783.7	1432.3	344.1	121.0	124.5	156.0	166.7	156.0	147.4	147.6	144.9
62.5°	1839.3	1453.9	263.2	112.6	119.5	148.1	160.3	150.0	142.1	148.5	147.0
65°	1797.0	1392.2	187.6	104.8	113.2	138.8	156.6	144.9	139.4	152.9	151.2
67.5°	1644.8	1223.8	136.2	97.9	107.3	129.3	149.4	140.3	136.8	156.2	152.4
69°	1483.3	1056.5	117.9	94.1	103.0	124.1	144.7	137.9	134.7	151.6	145.9
70°	1349.0	927.7	108.9	91.5	99.5	121.2	141.3	136.4	132.8	146.1	139.1
72.5°	967.1	599.7	91.5	84.3	90.2	114.9	133.5	130.6	125.3	132.0	127.5
75°	584.3	313.0	77.9	76.6	80.5	106.0	124.3	120.8	115.5	116.2	113.9
77.5°	268.5	144.5	65.1	67.8	70.2	95.0	113.2	109.4	104.5	102.6	102.9
80°	117.7	84.5	54.5	57.9	59.2	85.3	101.2	96.8	91.5	101.1	93.8
82.5°	63.6	49.0	42.6	44.7	48.6	74.3	88.0	82.3	77.2	89.8	72.6
85°	25.7	25.1	28.8	31.0	33.6	53.4	73.7	67.6	61.4	54.9	53.7
87.5°	11.0	11.9	14.3	15.1	18.0	33.2	49.4	43.2	43.5	37.2	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)