

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: P271245

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7027-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3459.7 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

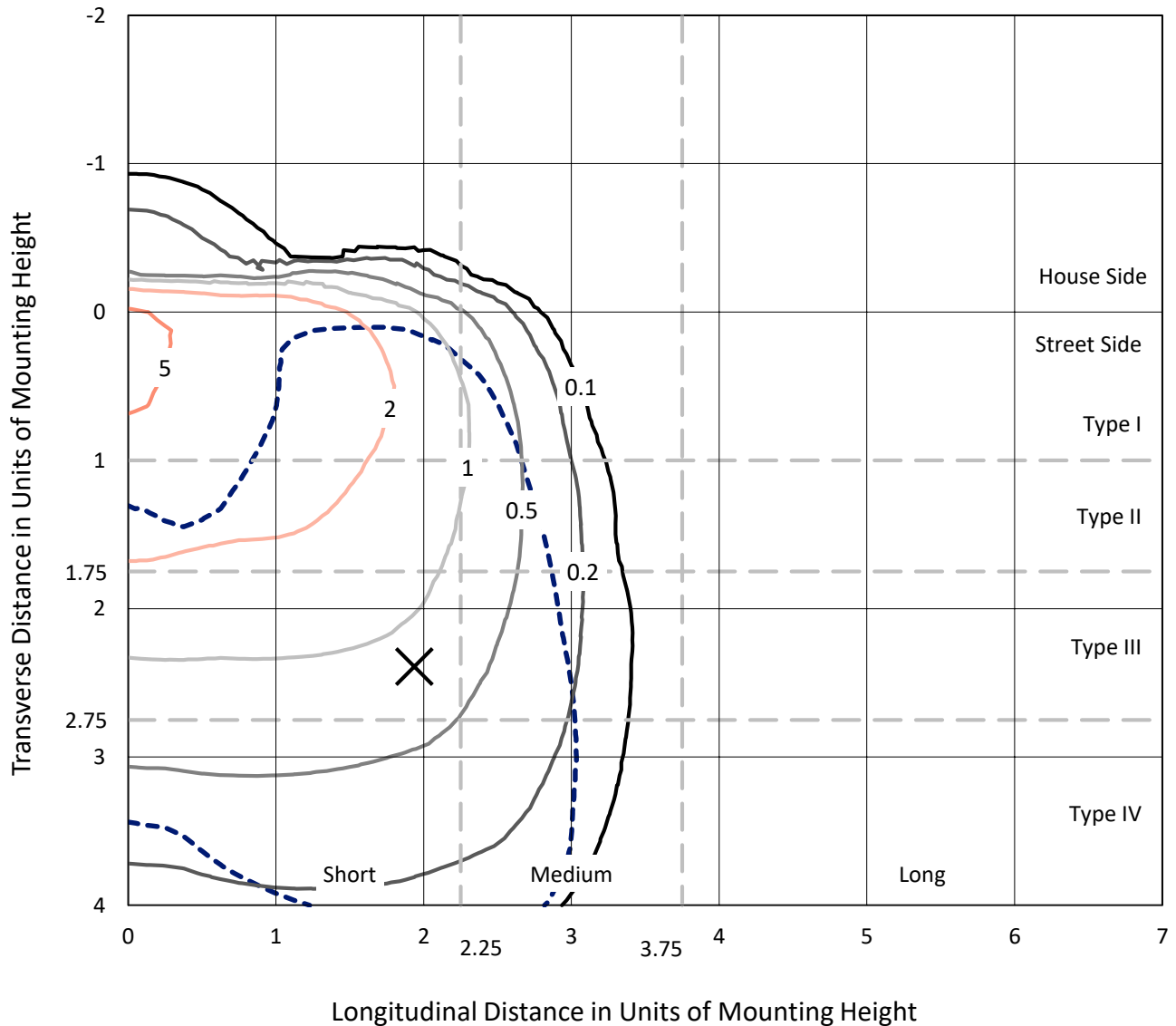


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

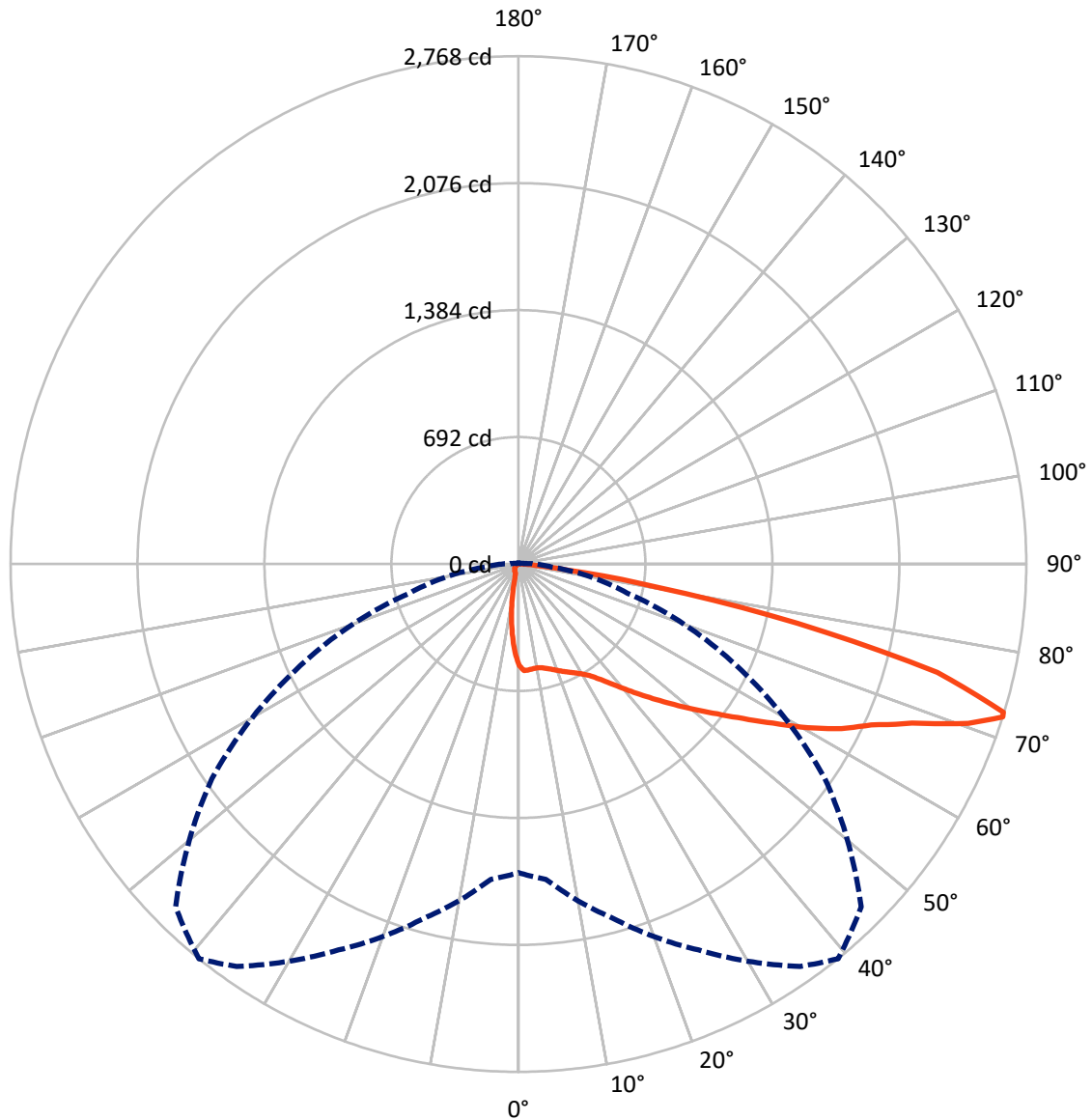


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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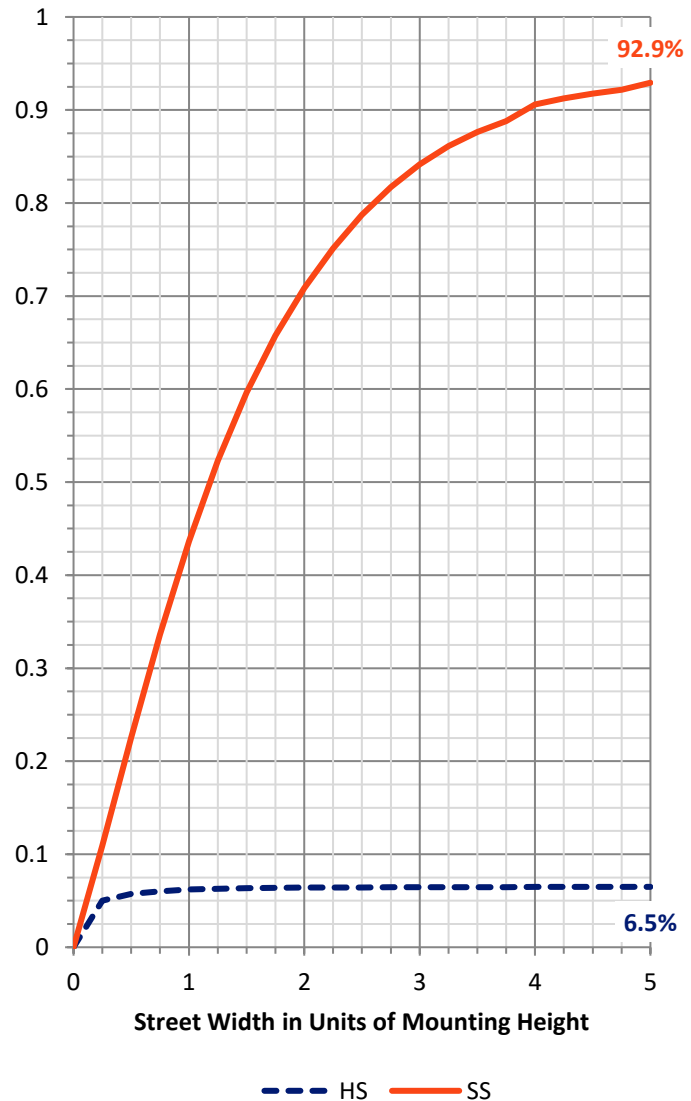
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	226.7	0.0	226.7
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	3233.0	0.0	3233.0
	% Fixture	93.4	0.0	93.4
Total	Lumens	3459.7	0.0	3459.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.3
10°-20°	109.0	3.2
20°-30°	181.1	5.2
30°-40°	288.6	8.3
40°-50°	476.4	13.8
50°-60°	719.5	20.8
60°-70°	937.3	27.1
70°-80°	633.3	18.3
80°-90°	69.4	2.0
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°	3459.7	100.0
0°-180°	3459.7	100.0

Coefficient of Utilization



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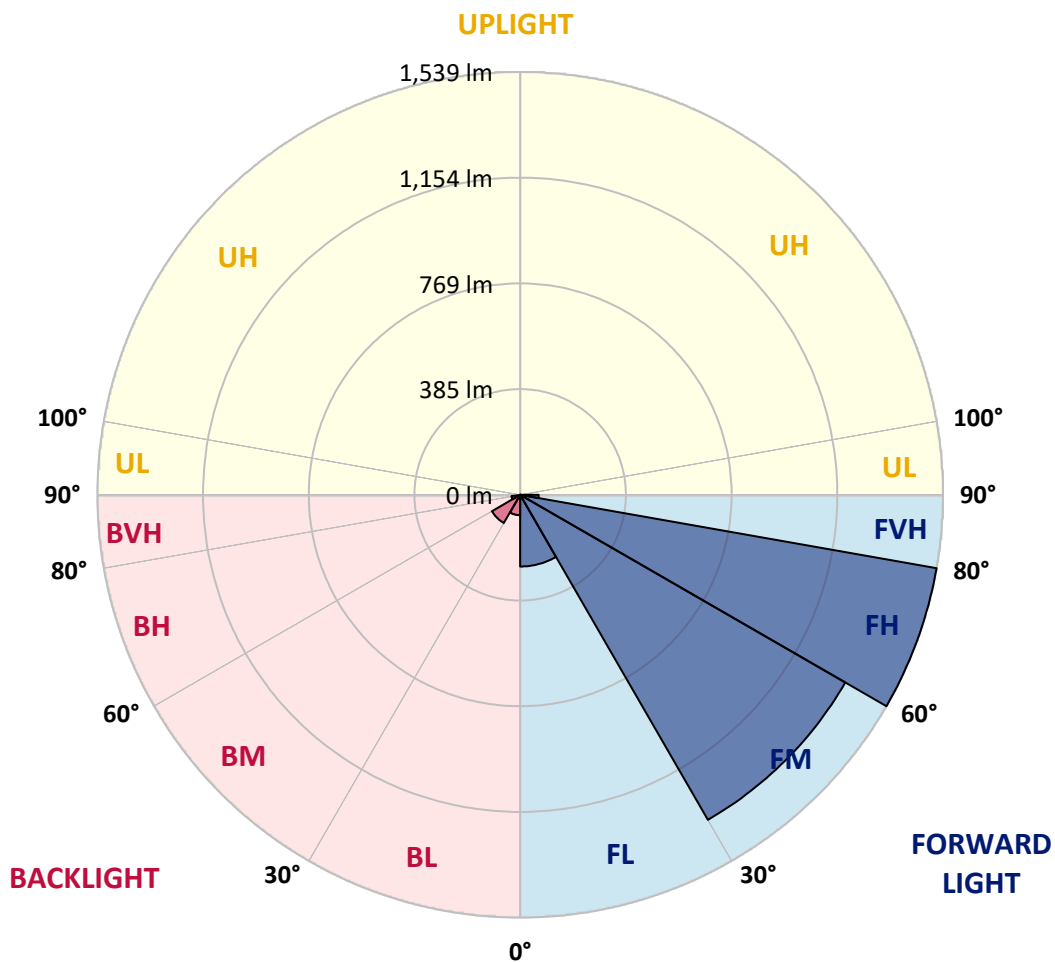
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.0	7.5			
FM	(30°-60°)	1365.9	39.5			
FH	(60°-80°)	1538.7	44.5			G1/1800
FVH	(80°-90°)	67.4	1.9			G1/100
BL	(0°-30°)	74.2	2.1	B0/110		
BM	(30°-60°)	118.6	3.4	B0/220		
BH	(60°-80°)	31.9	0.9	B0/110		G0/110
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7
2.5°	589.6	590.7	589.4	587.0	583.4	581.3	578.1	571.7	563.5	556.5	548.3
5°	594.3	594.8	593.2	588.6	583.1	580.1	576.4	569.3	560.8	551.0	536.4
7.5°	595.7	595.3	593.5	587.8	579.2	575.5	568.9	560.3	551.6	542.5	526.0
10°	595.0	595.0	593.7	588.3	578.8	575.3	567.9	558.7	547.7	538.9	521.0
12.5°	593.2	594.3	593.5	590.5	583.4	580.7	574.1	564.9	554.6	545.4	526.5
15°	595.7	597.3	598.9	597.8	593.7	591.3	585.2	575.8	567.4	557.6	537.5
17.5°	605.5	609.1	612.7	613.1	608.7	604.3	597.6	587.8	579.5	570.7	548.9
20°	624.0	626.7	633.8	635.1	626.4	620.1	610.6	599.2	591.1	583.4	559.5
22.5°	651.5	654.3	660.1	658.2	643.5	636.2	624.2	611.1	602.8	598.4	571.7
25°	693.0	693.9	695.2	686.8	662.5	654.3	639.8	625.0	618.3	617.7	589.1
27.5°	742.0	743.1	737.1	718.4	683.8	673.2	656.5	643.2	640.0	644.1	611.1
30°	798.0	798.2	781.6	751.3	708.3	696.5	679.4	664.7	667.7	677.9	639.5
32.5°	855.4	852.6	829.9	790.1	741.7	727.5	712.9	698.2	706.8	727.3	680.7
35°	907.8	906.7	879.9	833.5	785.2	772.7	762.1	746.6	760.8	793.9	737.1
37.5°	960.4	959.5	928.8	880.7	838.7	829.9	821.9	809.9	833.1	881.7	812.3
40°	1018.3	1016.9	979.2	932.9	901.1	896.1	891.6	886.4	925.9	993.5	906.2
42.5°	1089.9	1083.8	1032.4	989.8	969.6	971.0	971.2	976.4	1038.1	1126.6	1016.9
45°	1172.0	1158.6	1086.1	1050.7	1045.0	1053.2	1061.3	1082.7	1169.0	1279.6	1139.3
47.5°	1251.7	1230.1	1147.8	1116.2	1127.9	1144.8	1164.4	1206.2	1315.8	1439.9	1250.4
50°	1320.1	1298.2	1208.9	1182.9	1220.1	1245.1	1279.9	1343.3	1470.9	1575.3	1320.1
52.5°	1374.0	1356.6	1273.6	1256.3	1322.3	1356.6	1411.2	1494.5	1617.2	1664.5	1369.1
55°	1413.8	1405.0	1335.7	1338.1	1436.0	1485.5	1553.6	1647.6	1740.6	1733.9	1405.8
57.5°	1458.6	1451.8	1400.6	1434.8	1572.8	1636.8	1715.4	1791.0	1830.4	1789.7	1441.8
60°	1504.7	1506.7	1479.6	1551.6	1742.1	1812.7	1881.3	1900.1	1907.5	1846.1	1479.6
62.5°	1539.4	1548.7	1551.2	1677.9	1915.5	1975.9	2005.6	1992.3	1990.6	1922.1	1476.5
65°	1579.4	1603.6	1643.9	1816.4	2073.3	2113.1	2134.3	2153.5	2112.8	1944.7	1331.4
67.5°	1648.5	1686.6	1777.0	1986.1	2255.6	2314.3	2374.4	2354.0	2131.0	1715.4	1014.1
70°	1741.5	1787.9	1948.0	2207.7	2502.8	2601.2	2651.5	2338.0	1809.1	1185.4	535.0
72°	1682.7	1724.8	2000.6	2320.9	2677.8	2768.1	2642.3	2039.3	1311.4	614.4	179.2
72.5°	1625.7	1669.1	1983.8	2319.5	2695.4	2764.4	2582.2	1921.6	1160.5	478.2	123.4
75°	1127.9	1182.9	1700.8	2085.0	2434.0	2358.1	1975.6	1163.6	420.4	82.1	40.9
77.5°	583.1	625.6	1031.7	1473.3	1696.3	1553.6	1167.5	504.8	116.4	43.5	26.9
80°	361.5	382.4	482.5	725.9	881.1	770.7	515.1	203.9	74.5	25.8	21.5
82.5°	187.1	203.1	303.7	292.8	325.5	270.6	190.1	170.8	46.0	16.0	22.0
85°	61.4	65.2	186.6	194.8	139.2	93.6	84.4	163.0	13.4	10.3	18.8
87.5°	8.2	9.5	65.5	111.5	68.5	42.4	50.6	57.4	4.6	5.7	5.2
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°	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7	553.7
2.5°	542.8	539.3	528.3	517.1	504.3	492.5	483.3	477.3	480.1	471.2	472.4
5°	527.3	518.4	493.9	467.6	439.0	412.3	391.1	375.3	372.3	358.8	359.3
7.5°	512.5	497.8	458.0	414.5	367.1	328.8	294.0	263.6	252.7	241.6	234.9
10°	504.3	484.1	427.9	364.4	297.8	241.6	192.5	154.1	138.2	126.5	120.7
12.5°	506.7	480.1	405.2	319.1	231.5	159.9	108.8	80.8	71.0	65.5	63.6
15°	514.9	480.9	384.8	274.7	168.3	96.8	63.9	54.6	53.9	53.5	53.3
17.5°	522.5	481.8	363.4	228.4	112.6	61.8	51.5	50.6	50.6	50.6	50.6
20°	530.4	481.9	339.6	180.0	74.0	50.6	48.4	47.9	48.4	48.4	48.4
22.5°	539.6	483.8	316.8	132.9	54.6	47.6	46.3	46.0	46.3	46.3	46.0
25°	551.0	487.9	292.0	95.2	49.4	45.8	44.3	44.0	44.3	44.0	44.0
27.5°	566.2	493.3	263.3	68.4	47.3	43.7	42.4	42.4	42.4	42.2	42.2
30°	585.9	499.8	224.7	53.9	45.2	42.0	40.9	40.9	40.6	40.2	40.2
32.5°	613.8	510.4	182.4	48.7	42.7	39.4	38.4	38.5	38.4	38.1	37.8
35°	653.5	527.0	140.9	46.0	40.2	37.0	35.9	35.9	35.9	35.4	35.4
37.5°	709.9	552.4	105.6	43.3	37.8	34.6	33.1	33.1	32.9	32.3	32.7
40°	779.5	584.2	76.4	40.9	35.4	31.8	30.7	30.3	29.6	29.1	29.1
42.5°	863.4	615.2	57.4	38.4	32.9	29.6	28.2	27.8	26.7	26.1	25.8
45°	957.1	648.1	47.6	35.4	30.3	27.2	26.1	25.1	23.6	22.8	22.5
47.5°	1036.3	668.2	42.4	32.3	27.5	24.8	23.6	22.0	20.4	19.9	19.9
50°	1083.8	659.9	38.1	29.4	24.8	22.3	20.9	18.8	17.6	17.2	16.9
52.5°	1110.5	634.8	34.6	26.9	22.3	19.7	17.6	15.8	15.2	14.7	14.7
55°	1128.7	598.6	30.7	24.4	20.1	17.2	14.9	13.7	13.0	12.8	12.4
57.5°	1146.1	554.6	27.2	22.3	18.0	15.2	12.8	12.2	11.1	10.9	10.9
60°	1151.3	493.9	24.0	19.9	16.0	13.4	11.1	10.3	9.3	9.0	9.0
62.5°	1085.5	393.0	21.2	16.9	14.2	11.4	9.8	8.8	7.6	7.6	7.6
65°	907.1	266.7	18.2	14.7	12.4	9.8	8.4	7.0	6.6	6.6	6.6
67.5°	631.8	148.8	15.5	12.4	10.6	8.2	7.0	6.0	5.7	6.0	6.0
70°	284.8	59.0	13.0	10.3	8.8	6.7	6.0	5.2	5.7	5.7	5.7
72°	85.3	31.5	10.9	8.4	7.0	6.0	5.2	4.9	5.4	5.7	5.7
72.5°	63.4	28.2	10.3	8.2	7.0	5.7	4.9	4.9	5.4	5.7	5.7
75°	32.7	19.4	7.8	6.0	5.2	4.6	4.1	4.6	5.4	5.4	5.4
77.5°	25.5	15.8	6.6	4.6	4.3	4.1	3.9	4.3	4.9	4.9	4.9
80°	24.0	10.3	5.2	4.3	3.9	3.6	3.6	3.9	4.3	4.6	4.6
82.5°	24.3	8.4	4.6	4.1	3.6	3.2	3.2	3.6	4.1	4.3	4.3
85°	15.5	5.7	4.1	3.6	3.2	3.0	3.0	3.2	3.9	4.1	4.1
87.5°	5.2	4.3	3.6	3.2	2.8	2.8	2.8	2.8	3.2	3.6	3.9
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)