

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: P199268

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-8030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4019 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

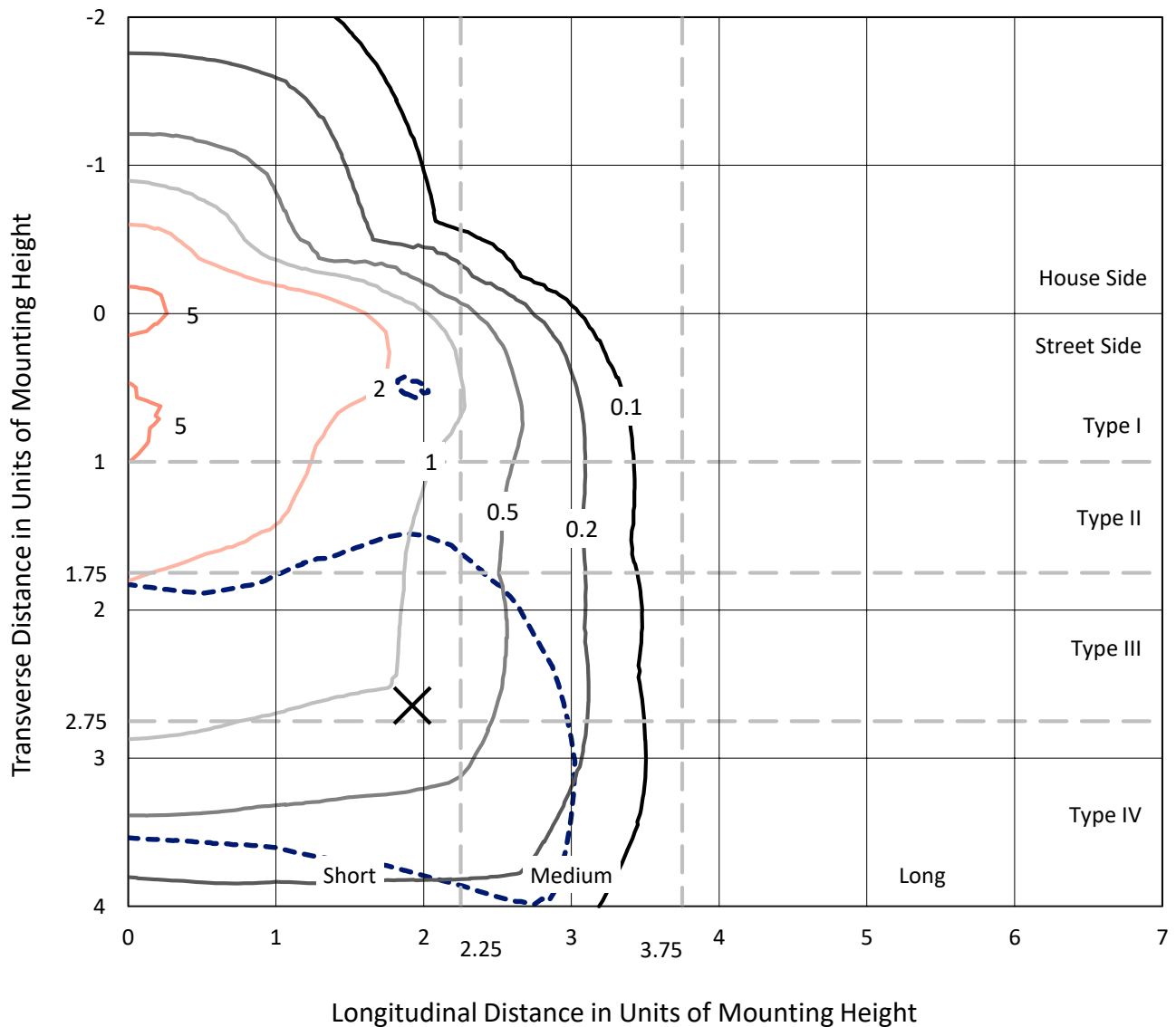


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

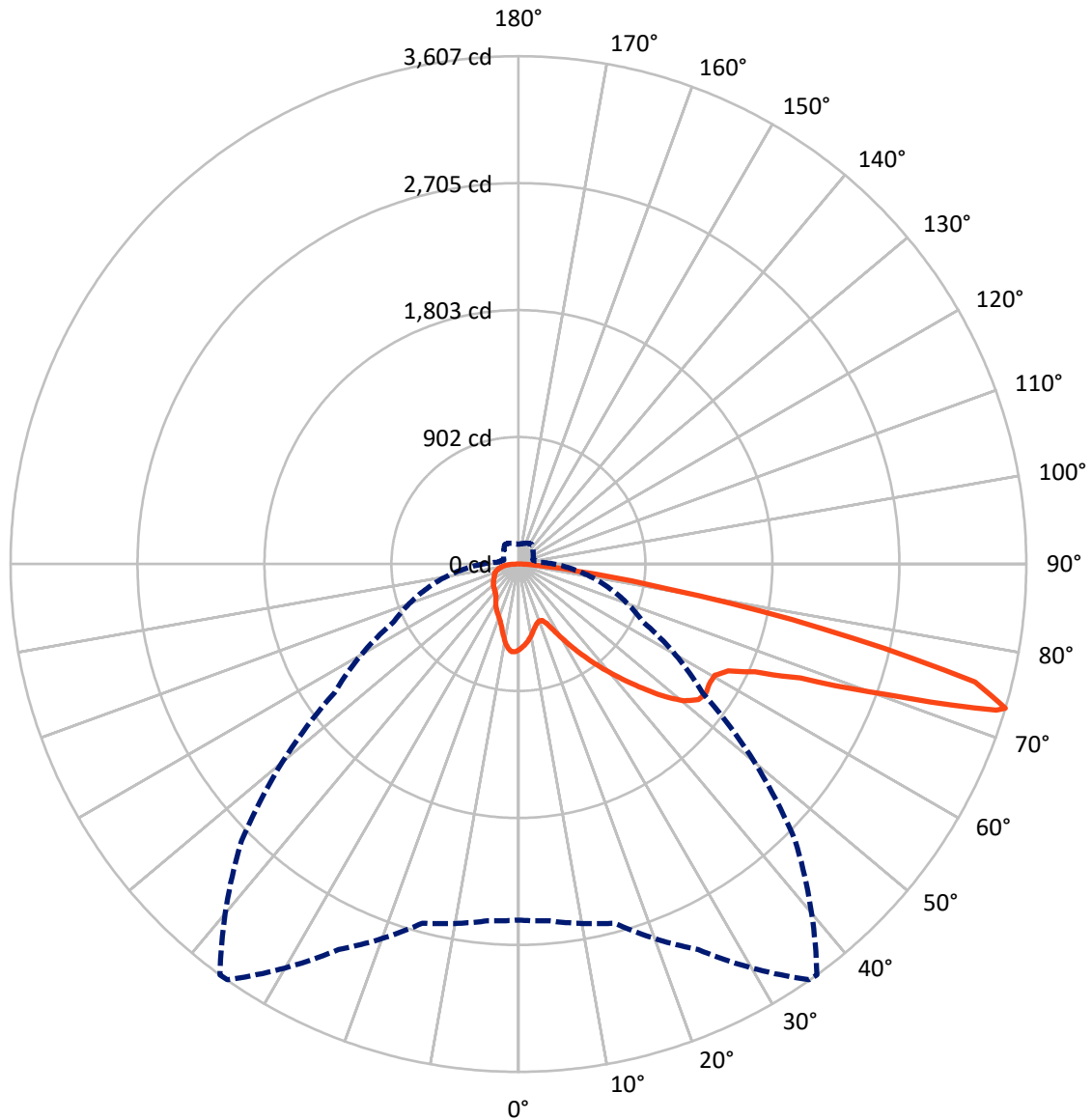


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.0	0.0	775.0
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	3244.0	0.0	3244.0
	% Fixture	80.7	0.0	80.7
Total	Lumens	4019.0	0.0	4019.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.4
10°-20°	138.9	3.5
20°-30°	222.6	5.5
30°-40°	368.3	9.2
40°-50°	569.9	14.2
50°-60°	762.9	19.0
60°-70°	996.6	24.8
70°-80°	814.0	20.3
80°-90°	90.6	2.3
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°	4019.0	100.0
0°-180°	4019.0	100.0



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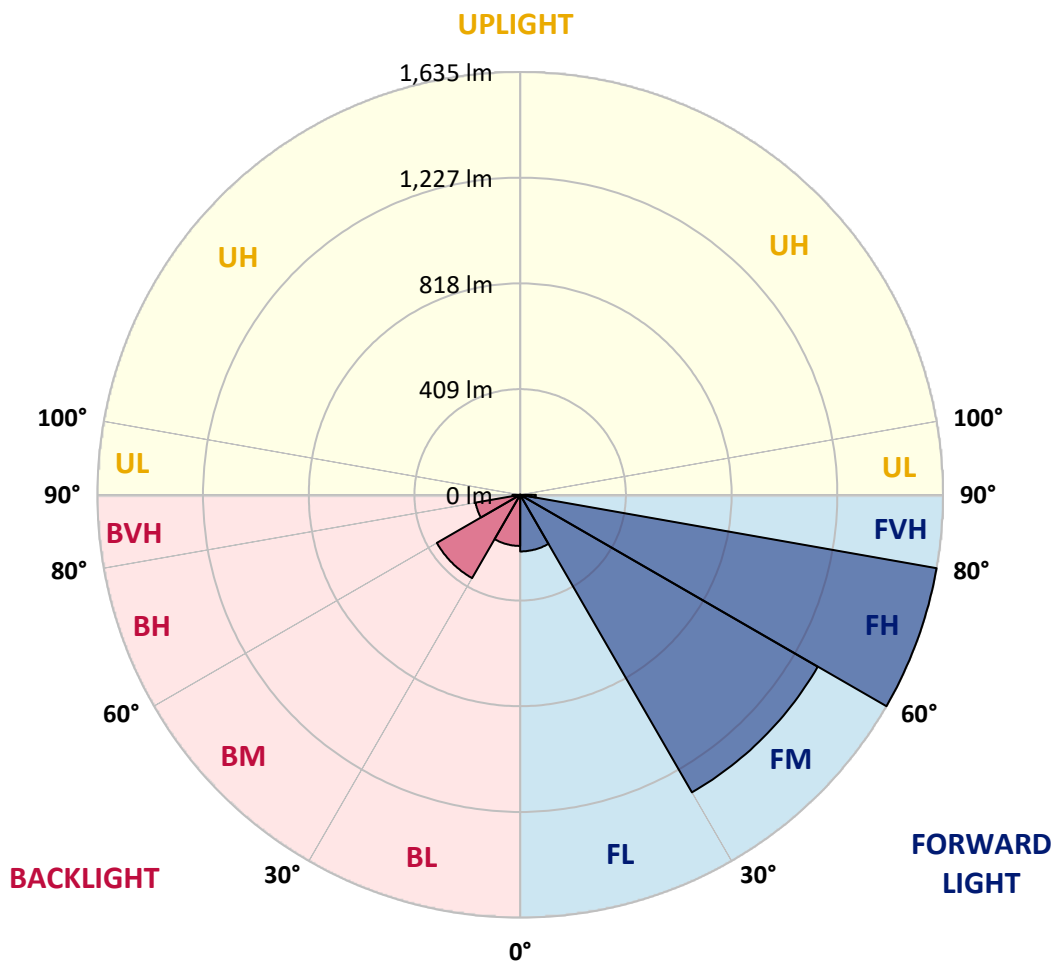
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.0	5.4			
FM (30°-60°)	1328.8	33.1			
FH (60°-80°)	1635.4	40.7			G1/1800
FVH (80°-90°)	60.8	1.5			G1/100
BL (0°-30°)	197.8	4.9	B1/500		
BM (30°-60°)	372.2	9.3	B1/1000		
BH (60°-80°)	175.1	4.4	B1/500		G1/500
BVH (80°-90°)	29.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8
2.5°	585.5	587.1	587.3	589.1	589.1	588.8	589.6	592.7	594.2	597.8	600.8
5°	556.7	558.5	559.2	562.3	566.1	566.4	569.2	575.1	580.7	588.6	595.2
7.5°	524.2	526.3	528.3	534.7	540.3	540.8	546.2	555.6	563.1	572.8	584.8
10°	492.8	493.3	495.4	503.6	511.0	511.7	519.4	530.1	540.1	553.6	567.1
12.5°	467.0	468.6	468.1	474.2	480.6	481.1	491.3	504.8	519.4	534.7	550.8
15°	458.1	457.8	452.5	452.2	455.0	455.5	465.5	481.3	497.7	516.6	537.3
17.5°	464.2	462.2	448.1	439.5	437.7	438.2	445.6	463.0	480.3	502.0	526.8
20°	497.9	490.0	457.1	436.1	430.3	430.3	434.6	448.7	467.8	493.1	524.2
22.5°	577.9	565.6	495.4	458.1	437.4	435.4	432.1	442.8	464.0	494.4	534.7
25°	678.5	672.6	565.6	516.6	473.9	467.3	445.3	449.2	471.9	508.2	563.3
27.5°	771.7	761.5	657.8	601.6	541.3	531.1	484.7	469.1	490.8	533.7	604.7
30°	826.1	819.2	752.5	698.9	627.1	614.1	547.5	508.4	524.5	575.8	663.4
32.5°	885.3	881.2	847.5	798.7	720.1	705.0	628.7	572.5	576.1	631.7	734.1
35°	942.8	948.1	929.0	893.2	820.2	806.1	737.7	656.3	639.7	694.6	809.7
37.5°	1011.7	1013.0	1001.0	977.7	925.4	913.9	857.5	745.6	708.9	761.5	882.8
40°	1149.3	1129.2	1082.2	1063.8	1032.6	1025.5	961.1	827.6	773.2	830.2	951.7
42.5°	1298.2	1266.8	1193.3	1163.1	1150.6	1144.0	1047.5	882.2	833.5	898.8	1019.4
45°	1418.2	1392.7	1320.7	1283.4	1284.9	1274.2	1122.8	931.0	898.8	967.8	1095.0
47.5°	1536.5	1493.8	1413.1	1407.8	1425.6	1409.8	1194.8	979.8	967.0	1042.9	1170.5
50°	1544.1	1505.3	1472.6	1515.5	1546.2	1526.5	1260.2	1043.6	1037.8	1133.8	1268.1
52.5°	1450.9	1445.3	1495.1	1567.4	1618.2	1600.6	1313.5	1109.3	1110.0	1247.4	1386.8
55°	1417.0	1409.8	1469.6	1558.4	1627.1	1616.6	1353.4	1183.3	1190.2	1385.3	1514.2
57.5°	1474.2	1456.3	1468.0	1541.6	1606.2	1600.0	1394.7	1265.5	1278.0	1544.1	1632.0
60°	1651.6	1615.1	1552.8	1566.6	1606.9	1603.4	1454.0	1357.2	1378.1	1709.6	1706.5
62.5°	1917.4	1876.1	1749.2	1687.9	1678.9	1672.1	1551.8	1469.8	1480.3	1829.1	1663.1
65°	2209.1	2164.6	2013.7	1913.4	1860.8	1845.9	1709.6	1605.7	1540.0	1828.8	1494.1
67.5°	2536.4	2489.4	2339.0	2243.3	2186.3	2161.1	1965.7	1715.5	1520.6	1674.1	1195.6
70°	2871.7	2827.0	2758.1	2791.5	2816.5	2778.0	2369.2	1752.0	1381.2	1312.5	802.8
72.5°	2693.7	2690.1	2742.5	3059.6	3542.0	3549.7	2772.1	1648.8	1067.1	780.1	428.0
73°	2528.5	2543.6	2640.6	3020.1	3604.1	3606.6	2780.0	1595.4	979.8	672.1	375.9
75°	1310.0	1412.1	1772.2	2448.8	3337.2	3349.2	2450.6	1207.8	584.0	373.3	253.3
77.5°	350.9	346.3	571.0	1193.0	2224.9	2209.1	1548.5	584.8	279.9	234.2	177.7
80°	120.3	121.8	194.3	436.4	1038.5	1075.5	672.1	255.1	184.1	163.2	125.9
82.5°	61.3	63.3	101.6	185.6	434.4	425.2	216.3	150.1	123.3	99.1	70.5
85°	32.7	33.7	55.9	96.3	159.3	161.1	76.1	80.2	78.4	56.2	34.7
87.5°	16.1	16.6	26.8	42.4	59.0	56.9	26.6	34.7	38.6	31.7	19.2
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°	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8	608.8
2.5°	604.7	604.7	608.0	613.6	617.7	621.5	624.1	628.2	630.5	630.2	630.0
5°	600.6	603.1	609.8	616.7	621.3	624.3	624.3	626.1	626.1	625.4	624.3
7.5°	591.1	595.5	605.2	611.3	612.6	609.3	602.6	597.5	591.1	587.8	586.5
10°	576.1	581.7	594.0	596.8	590.1	578.4	562.3	548.5	536.2	530.6	528.8
12.5°	561.3	568.7	580.2	575.8	560.0	537.0	512.2	493.3	479.6	474.2	472.4
15°	549.0	557.9	566.9	553.4	525.8	493.9	466.5	448.9	438.4	434.4	433.3
17.5°	540.8	551.3	554.4	529.1	490.8	455.0	430.8	419.3	414.7	412.9	412.4
20°	541.3	553.1	545.7	505.6	457.1	421.1	405.0	401.7	401.7	401.7	401.4
22.5°	555.4	565.6	542.1	483.6	424.7	392.5	385.6	388.4	390.4	390.4	390.2
25°	584.5	590.1	544.7	462.4	394.3	367.7	368.0	373.3	375.1	375.1	374.6
27.5°	628.9	624.3	549.3	439.0	364.4	345.2	348.8	353.7	354.9	354.2	353.9
30°	684.6	666.2	553.1	411.4	336.3	324.3	327.4	330.2	329.2	327.4	327.1
32.5°	746.9	708.9	550.8	380.5	311.5	302.6	304.4	305.9	304.4	300.0	300.0
35°	808.7	747.4	538.3	346.8	291.9	281.7	281.4	286.3	286.0	280.9	281.1
37.5°	862.8	777.8	514.0	315.9	275.0	266.3	267.4	270.4	272.0	265.1	264.3
40°	910.1	798.7	479.8	289.6	261.5	262.0	259.2	254.3	252.5	249.5	249.0
42.5°	954.5	813.3	443.5	267.6	254.6	260.5	251.0	239.5	234.7	237.5	239.3
45°	998.2	829.6	408.6	249.5	245.9	255.9	242.8	230.1	224.5	225.7	227.5
47.5°	1051.5	852.4	366.4	230.1	232.6	247.4	237.7	223.9	215.5	210.4	208.9
50°	1121.8	885.3	311.8	209.1	218.6	238.2	233.4	215.0	205.8	195.6	193.0
52.5°	1209.6	916.5	256.6	192.3	207.1	230.3	226.2	207.3	196.1	183.9	181.8
55°	1297.2	920.8	209.1	177.7	194.1	219.6	217.6	201.2	185.4	175.4	173.4
57.5°	1358.5	879.7	177.2	165.5	181.6	206.3	209.6	193.8	176.4	168.8	167.5
60°	1359.5	781.4	157.8	157.3	172.1	194.8	201.5	185.1	170.8	165.7	164.7
62.5°	1251.5	629.7	145.3	151.2	165.2	185.4	195.3	180.3	169.6	167.5	166.5
65°	1049.0	465.3	135.3	145.6	158.8	177.5	190.2	178.7	169.0	168.3	167.5
67.5°	774.5	318.9	126.9	138.4	151.7	169.3	185.4	176.4	166.0	169.0	168.0
70°	487.2	213.0	119.0	130.2	142.2	159.9	179.0	172.4	162.1	160.4	157.0
72.5°	275.0	154.0	109.5	119.8	130.0	147.3	170.3	165.5	153.5	146.3	143.0
73°	248.5	145.8	107.2	117.2	127.2	144.8	168.3	163.4	150.9	143.0	139.9
75°	181.8	119.2	96.8	106.7	115.4	133.0	158.6	153.2	139.7	130.2	128.2
77.5°	131.8	91.9	83.2	92.2	99.8	116.7	144.0	137.9	124.6	119.5	117.5
80°	95.0	69.7	68.9	77.6	84.3	101.4	128.4	122.1	109.3	124.4	121.0
82.5°	56.7	44.7	50.6	60.3	67.2	85.0	111.6	104.2	91.9	92.9	79.2
85°	27.1	25.3	31.4	39.6	44.4	58.2	92.9	87.1	73.5	60.3	59.0
87.5°	12.0	11.5	15.1	17.6	23.7	35.0	63.6	56.4	53.4	31.9	25.0
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)