

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: McGRAW-EDISON

Report Number: P594840

Luminaire Tested: **ISS-PA1E-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1E-830-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8519 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

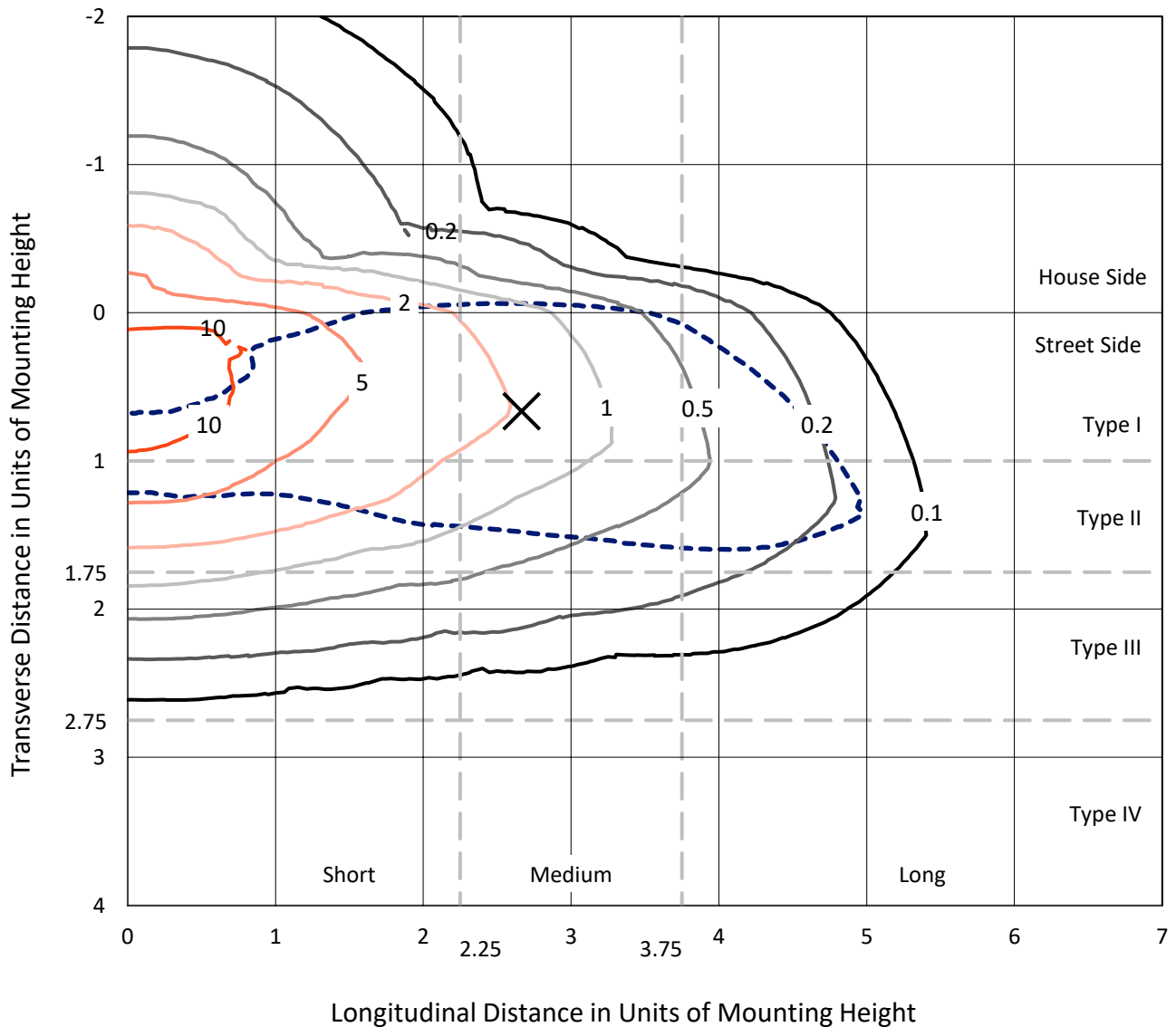
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

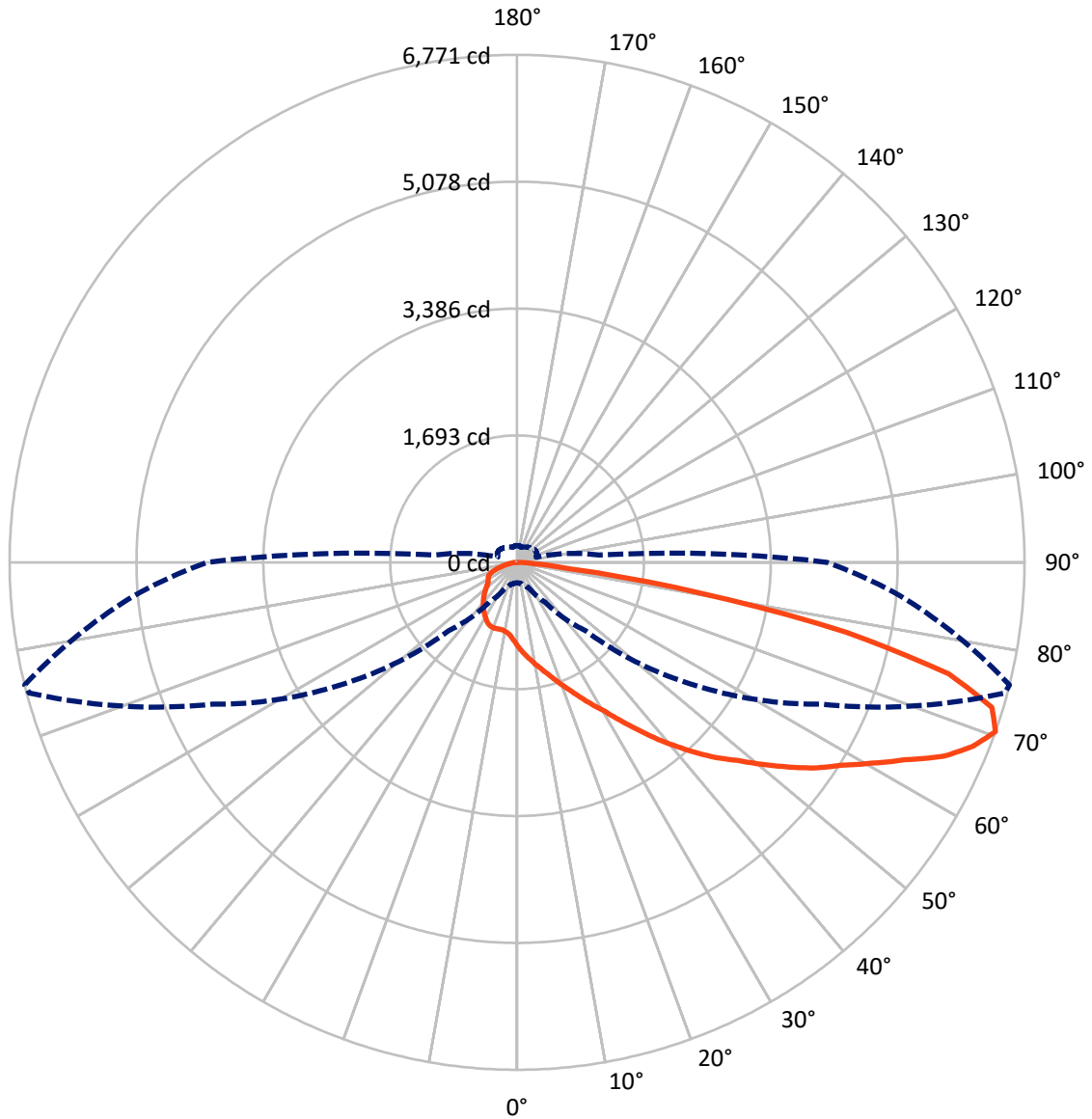
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.4	0.0	1366.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7152.6	0.0	7152.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	8519.0	0.0	8519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.3
10°-20°	359.4	4.2
20°-30°	662.4	7.8
30°-40°	1109.8	13.0
40°-50°	1576.9	18.5
50°-60°	1820.7	21.4
60°-70°	1673.7	19.6
70°-80°	1055.4	12.4
80°-90°	151.8	1.8
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°	8519.0	100.0
0°-180°	8519.0	100.0

Coefficient of Utilization

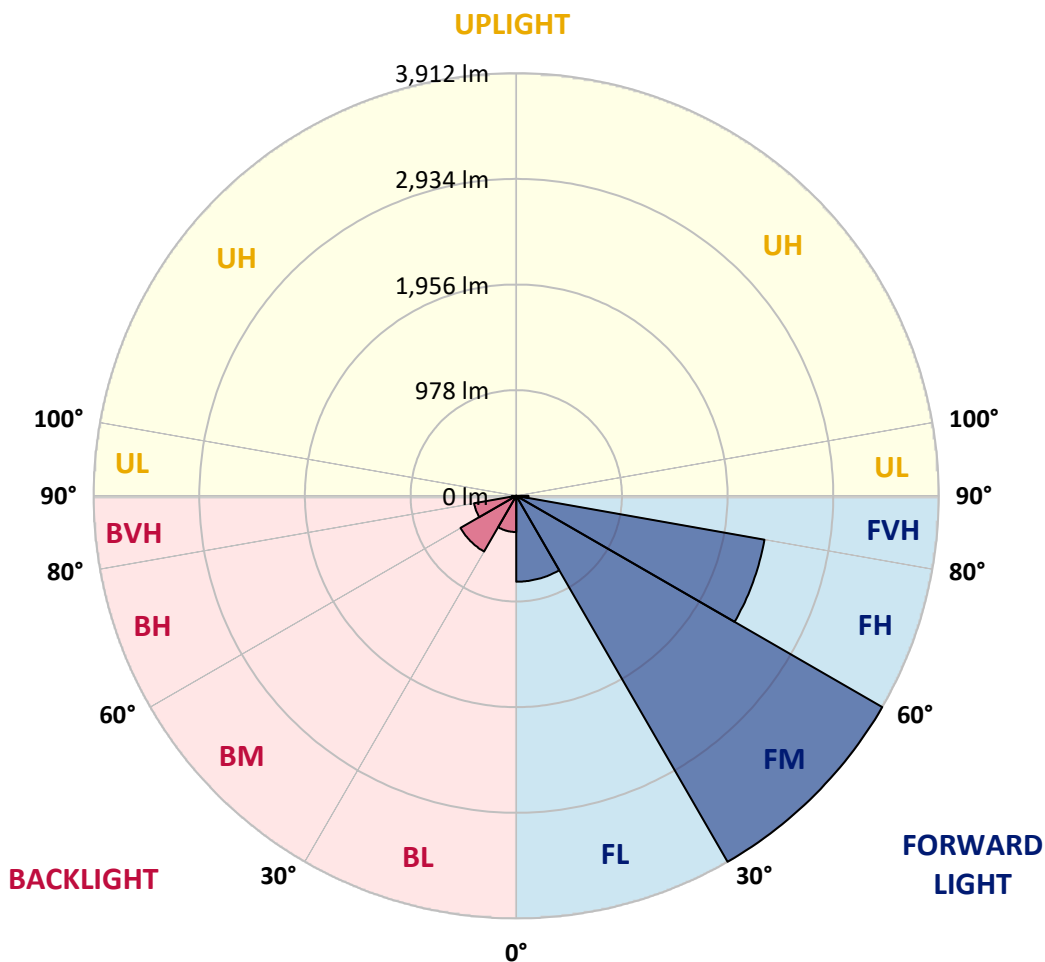


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.3	9.3			
FM (30°-60°)	3911.7	45.9			
FH (60°-80°)	2333.0	27.4			G2/5000
FVH (80°-90°)	112.5	1.3			G2/225
BL (0°-30°)	335.4	3.9	B1/500		
BM (30°-60°)	595.7	7.0	B1/1000		
BH (60°-80°)	396.0	4.6	B1/500		G1/500
BVH (80°-90°)	39.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1345.2	1343.1	1337.0	1326.7	1318.5	1293.9	1261.1	1232.4	1189.3	1185.2	1142.2
5°	1466.2	1458.0	1458.0	1447.7	1437.5	1410.8	1369.8	1318.5	1257.0	1252.9	1170.9
7.5°	1523.6	1525.6	1521.5	1513.3	1515.4	1492.8	1455.9	1404.6	1320.6	1316.5	1209.8
10°	1605.6	1603.6	1595.4	1589.2	1587.1	1566.6	1533.8	1486.7	1398.5	1390.3	1255.0
12.5°	1685.6	1679.4	1681.5	1679.4	1675.3	1654.8	1624.1	1576.9	1468.2	1464.1	1310.3
15°	1730.7	1728.6	1743.0	1747.1	1763.5	1745.0	1718.4	1665.1	1566.6	1550.2	1375.9
17.5°	1759.4	1757.3	1771.7	1804.5	1835.3	1835.3	1827.1	1769.6	1661.0	1648.7	1449.8
20°	1808.6	1816.8	1841.4	1868.1	1913.2	1921.4	1919.3	1894.7	1769.6	1757.3	1531.8
22.5°	1907.0	1902.9	1923.4	1964.5	2005.5	2017.8	2019.8	2019.8	1894.7	1872.2	1615.9
25°	2118.2	2108.0	2091.6	2087.5	2136.7	2134.7	2128.5	2142.9	2026.0	2009.6	1712.2
27.5°	2520.2	2497.6	2434.0	2306.9	2278.2	2288.4	2257.7	2259.7	2175.7	2155.2	1794.3
30°	2901.6	2891.3	2831.9	2678.1	2516.1	2458.6	2405.3	2382.8	2341.8	2306.9	1882.4
32.5°	3246.1	3248.1	3176.3	3008.2	2842.1	2661.7	2569.4	2522.2	2538.6	2507.9	2003.4
35°	3479.8	3461.4	3416.3	3303.5	3123.0	2950.8	2774.4	2669.9	2758.0	2723.2	2124.4
37.5°	3617.2	3602.9	3566.0	3486.0	3395.8	3229.7	3006.1	2846.2	3018.5	2967.2	2278.2
40°	3686.9	3666.4	3629.5	3596.7	3553.7	3463.4	3266.6	3047.2	3256.3	3211.2	2429.9
42.5°	3695.1	3680.8	3660.3	3643.9	3658.2	3645.9	3520.8	3280.9	3506.5	3457.3	2604.2
45°	3689.0	3699.2	3674.6	3645.9	3674.6	3779.2	3779.2	3514.7	3754.6	3717.7	2770.3
47.5°	3693.1	3682.8	3674.6	3666.4	3670.5	3814.1	3957.6	3734.1	3992.5	3949.4	2965.1
50°	3522.9	3537.2	3607.0	3637.7	3656.2	3822.3	4101.2	3972.0	4287.8	4234.4	3182.5
52.5°	2981.5	2989.7	3307.6	3537.2	3611.1	3789.5	4201.6	4236.5	4578.9	4537.9	3416.3
55°	2296.6	2339.7	2641.1	3203.0	3508.5	3734.1	4232.4	4408.7	4876.3	4843.5	3652.1
57.5°	1890.6	1896.8	2071.1	2573.5	3184.5	3682.8	4263.2	4566.6	5142.9	5105.9	3898.2
60°	1568.7	1554.3	1661.0	1985.0	2645.2	3477.8	4269.3	4691.7	5452.5	5440.2	4152.4
62.5°	1152.4	1168.8	1271.4	1546.1	2069.0	3061.5	4238.5	4798.4	5821.6	5805.2	4435.4
65°	707.4	728.0	853.0	1105.3	1566.6	2429.9	4037.6	4853.7	6209.2	6246.1	4740.9
67.5°	375.3	389.6	463.4	668.5	1074.5	1851.7	3553.7	4784.0	6537.2	6553.7	5034.2
70°	274.8	276.8	301.4	377.3	648.0	1287.8	2829.8	4480.5	6738.2	6771.0	5130.5
72.5°	239.9	242.0	252.2	270.7	352.7	785.4	2028.0	3951.5	6654.1	6625.4	4968.6
75°	217.4	217.4	225.6	231.7	258.4	434.7	1242.7	3233.8	6012.3	5948.7	4236.5
77.5°	186.6	186.6	194.8	203.0	223.5	280.9	650.0	2397.1	4597.4	4488.7	2897.5
80°	149.7	149.7	159.9	170.2	196.9	211.2	317.8	1603.6	2628.8	2468.9	1318.5
82.5°	102.5	110.7	129.2	141.5	164.0	149.7	186.6	693.1	828.4	717.7	297.3
85°	61.5	65.6	92.3	106.6	123.0	80.0	114.8	266.6	248.1	217.4	67.7
87.5°	6.2	10.3	36.9	43.1	43.1	22.6	49.2	63.6	71.8	73.8	16.4
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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 CATALOG NUMBER: ISS-PA1E-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1117.6	1093.0	1045.8	1002.7	959.7	931.0	902.3	892.0	877.6	867.4	875.6
5°	1127.8	1076.6	986.3	910.5	859.2	820.2	801.8	791.5	783.3	781.3	779.2
7.5°	1140.1	1064.3	943.3	859.2	810.0	791.5	787.4	787.4	787.4	789.5	791.5
10°	1166.8	1068.4	920.7	830.5	803.8	799.7	801.8	810.0	810.0	812.0	812.0
12.5°	1197.5	1078.6	904.3	826.4	810.0	812.0	814.1	818.2	818.2	824.3	822.3
15°	1242.7	1099.1	902.3	830.5	816.1	812.0	812.0	810.0	810.0	810.0	814.1
17.5°	1300.1	1127.8	904.3	830.5	810.0	801.8	795.6	789.5	781.3	785.4	781.3
20°	1357.5	1162.7	904.3	820.2	793.6	773.1	754.6	744.4	734.1	732.1	734.1
22.5°	1429.3	1203.7	894.1	797.7	758.7	730.0	703.3	689.0	672.6	666.4	662.3
25°	1490.8	1236.5	873.5	764.9	719.8	678.7	643.9	619.3	598.8	594.7	594.7
27.5°	1554.3	1265.2	842.8	723.9	664.4	619.3	580.3	549.6	529.0	527.0	524.9
30°	1613.8	1289.8	801.8	678.7	615.2	561.9	516.7	490.1	471.6	461.4	455.2
32.5°	1691.7	1322.6	762.8	633.6	557.8	504.4	463.4	440.9	416.3	399.9	393.7
35°	1790.2	1361.6	719.8	584.4	506.5	453.2	428.6	395.8	365.0	346.5	340.4
37.5°	1900.9	1417.0	674.6	533.2	455.2	416.3	401.9	350.6	317.8	311.7	309.6
40°	2038.3	1470.3	623.4	479.8	406.0	395.8	371.2	317.8	301.4	299.4	297.3
42.5°	2175.7	1527.7	574.2	426.5	367.1	371.2	336.3	309.6	295.3	291.2	289.1
45°	2335.6	1585.1	524.9	379.4	336.3	336.3	317.8	301.4	289.1	285.0	285.0
47.5°	2503.8	1642.5	471.6	338.3	313.7	301.4	303.5	291.2	283.0	278.9	276.8
50°	2715.0	1697.9	422.4	309.6	299.4	283.0	289.1	280.9	276.8	272.7	270.7
52.5°	2913.9	1722.5	377.3	293.2	291.2	274.8	276.8	272.7	270.7	264.5	262.5
55°	3108.7	1716.3	342.4	285.0	280.9	272.7	268.6	266.6	264.5	258.4	256.3
57.5°	3326.0	1708.1	319.9	283.0	274.8	266.6	266.6	260.4	252.2	252.2	252.2
60°	3551.6	1681.5	309.6	283.0	272.7	266.6	262.5	256.3	248.1	250.2	248.1
62.5°	3805.9	1630.2	303.5	289.1	274.8	264.5	260.4	252.2	242.0	244.0	242.0
65°	4029.4	1525.6	299.4	295.3	278.9	266.6	256.3	246.1	233.8	235.8	233.8
67.5°	4181.1	1349.3	287.1	299.4	285.0	264.5	252.2	237.9	221.5	229.7	227.6
70°	4138.1	1097.1	264.5	291.2	291.2	266.6	246.1	227.6	209.2	225.6	219.4
72.5°	3803.8	824.3	221.5	262.5	287.1	266.6	233.8	211.2	194.8	205.1	192.8
75°	3123.0	559.8	176.3	209.2	268.6	268.6	223.5	194.8	174.3	168.1	164.0
77.5°	1948.1	348.6	137.4	153.8	225.6	266.6	213.3	174.3	145.6	141.5	137.4
80°	771.0	186.6	108.7	110.7	166.1	244.0	198.9	147.6	116.9	112.8	104.6
82.5°	176.3	94.3	75.9	73.8	102.5	198.9	180.5	116.9	90.2	90.2	75.9
85°	53.3	49.2	49.2	47.2	51.3	102.5	139.4	80.0	61.5	43.1	36.9
87.5°	14.4	20.5	18.5	16.4	16.4	14.4	45.1	20.5	12.3	6.2	4.1
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)