

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: P527173

Luminaire Tested: **GALN-SA2A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

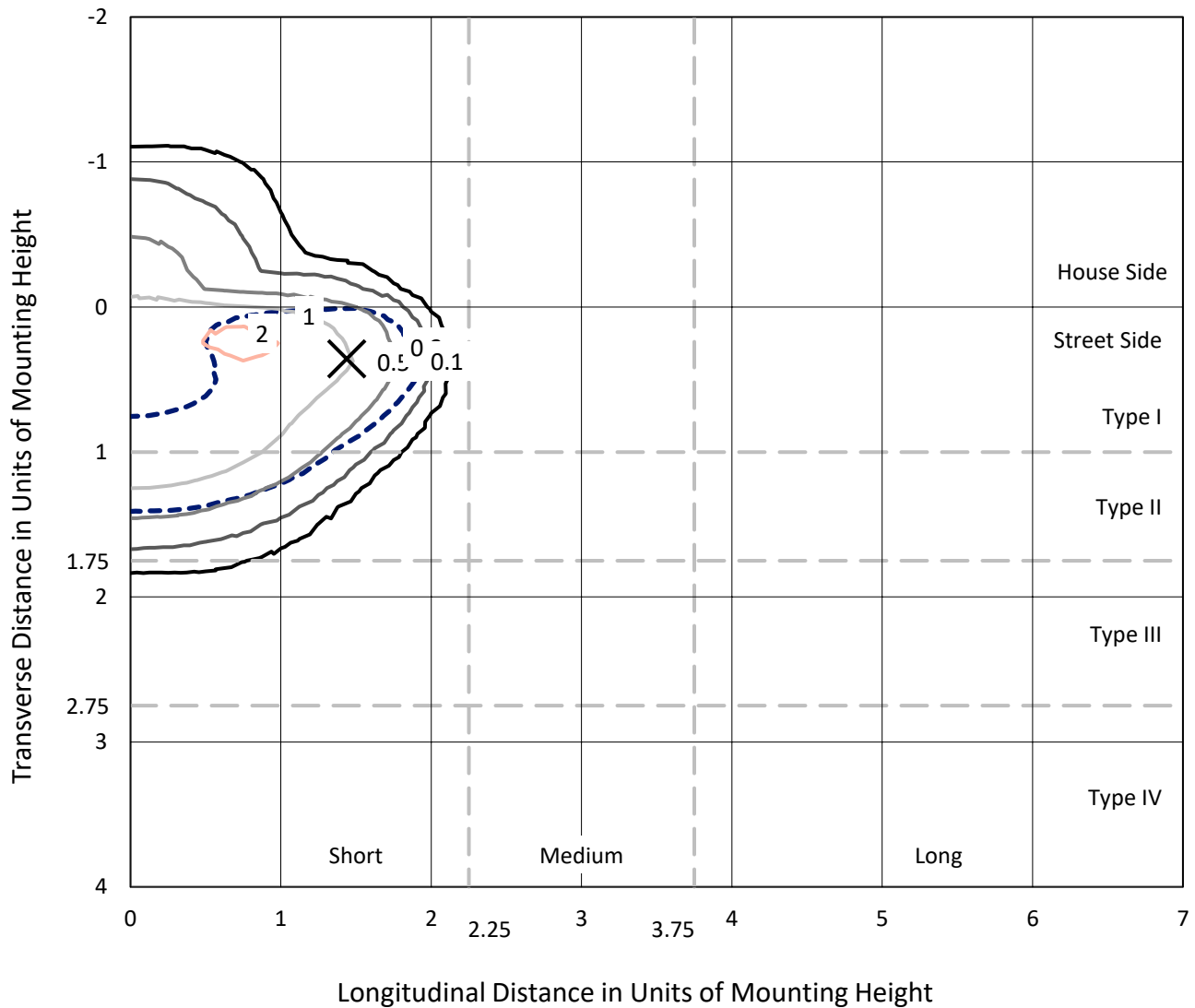
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

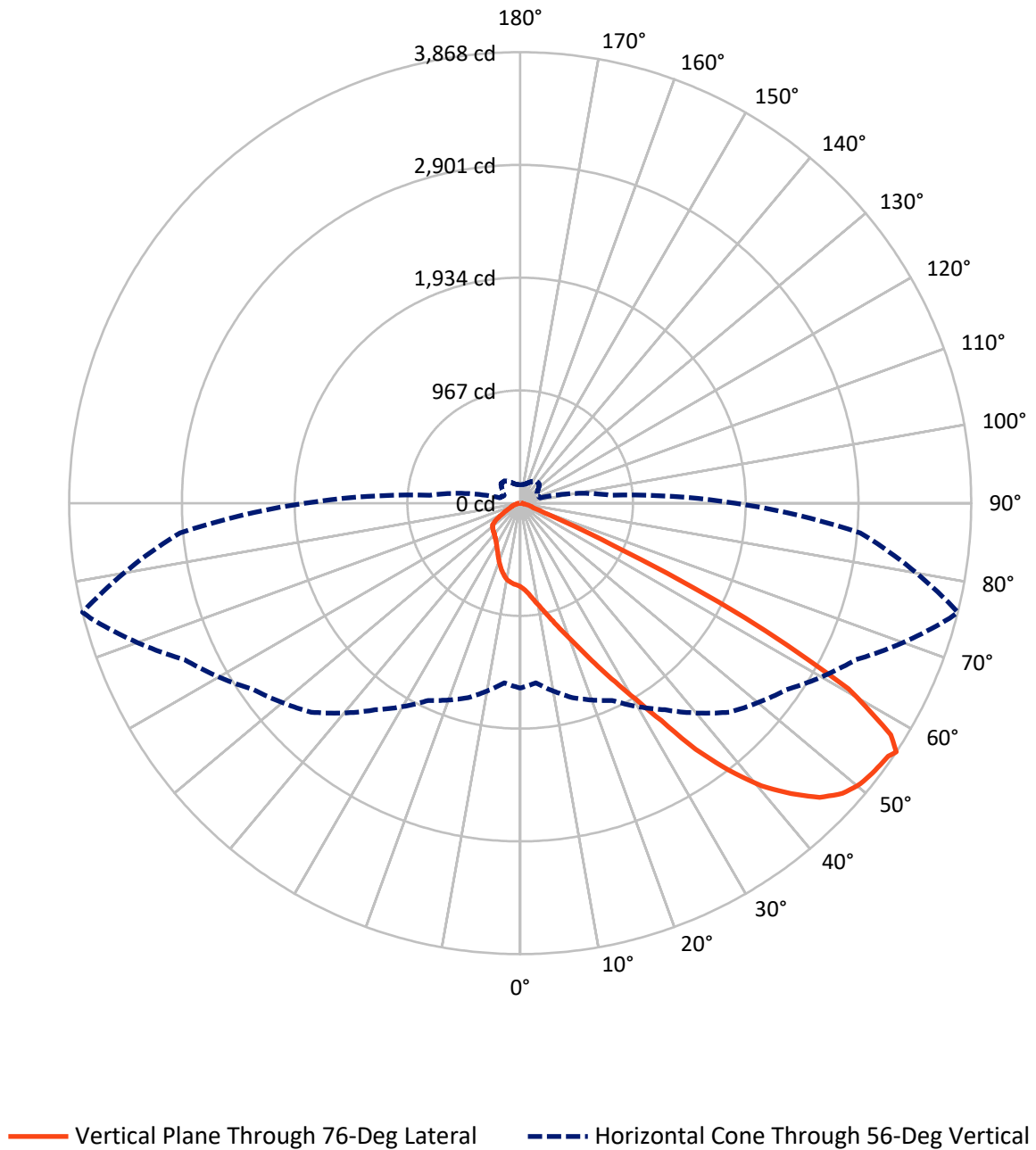
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.2	0.0	677.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3633.8	0.0	3633.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	4311.0	0.0	4311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.7
10°-20°	232.2	5.4
20°-30°	421.1	9.8
30°-40°	726.2	16.8
40°-50°	1179.7	27.4
50°-60°	1243.5	28.8
60°-70°	379.9	8.8
70°-80°	48.7	1.1
80°-90°	7.4	0.2
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°	4311.0	100.0
0°-180°	4311.0	100.0

Coefficient of Utilization



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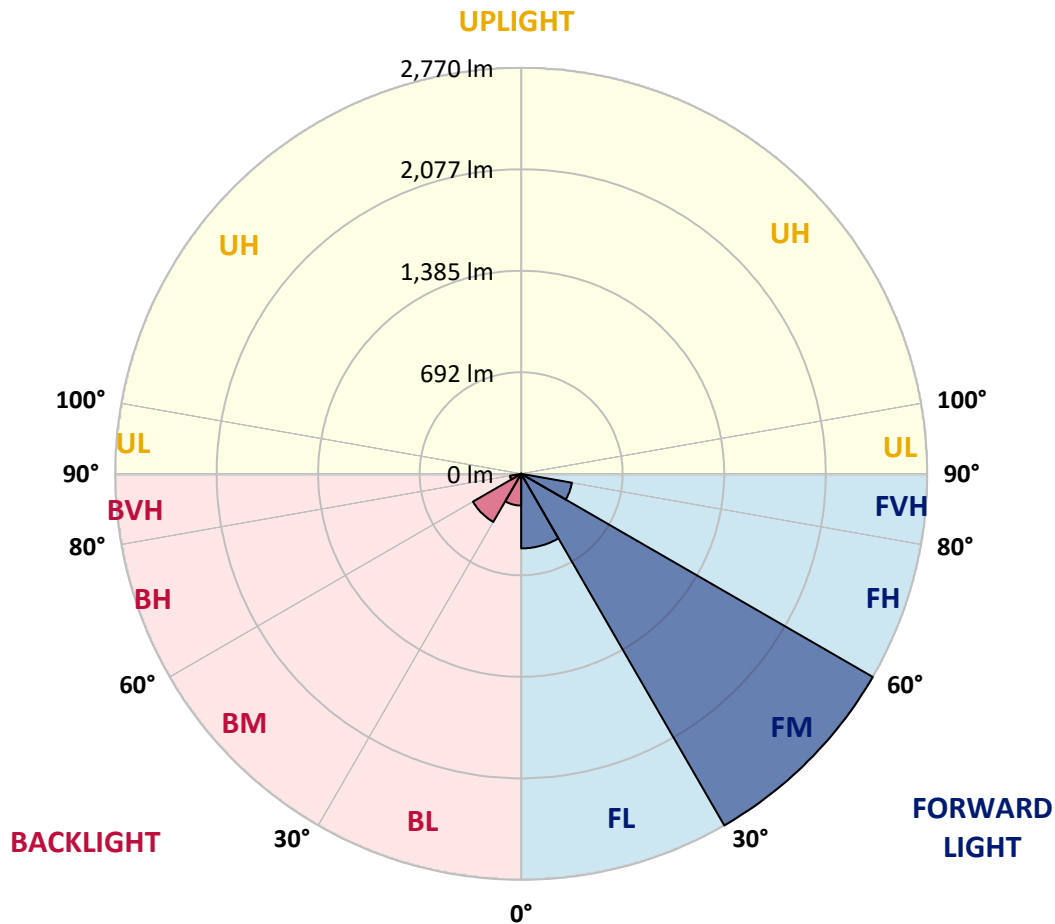
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.0	11.8			
FM	(30°-60°)	2769.8	64.2			
FH	(60°-80°)	351.4	8.2			G0/660
FVH	(80°-90°)	3.6	0.1			G0/10
BL	(0°-30°)	216.6	5.0	B1/500		
BM	(30°-60°)	379.6	8.8	B1/1000		
BH	(60°-80°)	77.3	1.8	B0/110		G0/110
BVH	(80°-90°)	3.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	826.4	807.4	808.2	806.6	804.2	795.4	769.2	765.3	747.8	743.0	727.1
5°	925.8	909.1	918.6	904.3	890.8	882.9	839.9	820.1	792.3	781.9	759.7
7.5°	987.8	979.8	976.6	977.4	964.7	944.8	925.8	882.1	844.7	836.8	789.9
10°	1018.0	1013.2	1018.0	1015.6	1021.1	1023.5	990.1	963.9	909.1	895.6	822.5
12.5°	1025.1	1034.6	1038.6	1048.9	1062.5	1085.5	1083.1	1047.4	974.2	965.5	872.5
15°	1042.6	1050.5	1046.6	1063.2	1088.7	1127.6	1148.3	1142.7	1064.0	1048.1	930.5
17.5°	1058.5	1044.2	1057.7	1091.1	1116.5	1176.1	1226.2	1249.2	1161.8	1143.5	983.8
20°	1079.9	1076.0	1073.6	1090.3	1135.6	1215.0	1314.4	1356.5	1271.4	1252.4	1060.1
22.5°	1145.1	1145.9	1144.3	1119.7	1152.2	1242.0	1391.4	1495.5	1402.6	1386.7	1146.7
25°	1230.9	1220.6	1212.6	1192.8	1188.8	1266.7	1469.3	1665.6	1559.9	1548.8	1240.5
27.5°	1321.5	1321.5	1297.7	1279.4	1254.0	1327.9	1540.8	1830.9	1749.8	1734.7	1322.3
30°	1420.0	1425.6	1422.4	1383.5	1367.6	1394.6	1613.9	2042.3	1967.6	1948.5	1457.4
32.5°	1565.5	1553.5	1567.1	1534.5	1487.6	1511.4	1729.2	2231.4	2250.5	2223.4	1634.6
35°	1757.8	1750.6	1741.9	1688.6	1633.0	1652.1	1892.1	2464.2	2605.7	2592.2	1813.4
37.5°	1930.2	1926.2	1919.1	1882.5	1818.2	1841.2	2077.2	2706.6	2952.1	2907.6	2066.1
40°	2111.4	2132.9	2109.8	2077.2	2018.4	2069.3	2295.0	2850.4	3243.8	3189.7	2259.2
42.5°	2356.9	2340.3	2350.6	2291.0	2259.2	2314.8	2513.5	2994.3	3470.3	3405.9	2464.2
45°	2618.4	2619.2	2591.4	2572.3	2489.7	2550.0	2647.8	3073.7	3650.6	3600.6	2619.2
47.5°	2786.1	2785.3	2815.5	2845.7	2760.6	2701.0	2739.2	3149.2	3743.6	3720.6	2675.6
50°	2759.8	2767.8	2806.7	2919.6	2964.1	2883.8	2825.0	3127.0	3785.7	3783.3	2724.1
52.5°	2400.6	2426.9	2492.0	2654.9	2879.0	2978.4	2914.8	3168.3	3806.4	3810.4	2796.4
55°	1827.7	1842.0	1966.0	2163.8	2411.8	2751.9	2879.0	3200.9	3822.3	3829.4	2883.8
56°	1585.3	1547.2	1726.0	1866.6	2163.0	2534.9	2788.4	3175.4	3812.7	3867.6	2927.5
57.5°	1196.7	1171.3	1315.9	1491.6	1776.8	2169.4	2507.1	3055.4	3748.4	3747.6	2864.7
60°	727.9	702.5	813.7	917.0	1076.8	1335.8	1694.2	2433.2	3169.1	3235.8	2319.6
62.5°	433.1	449.0	558.6	621.4	673.1	700.1	876.5	1446.3	2114.6	2162.3	1439.1
65°	288.5	294.0	376.7	480.0	503.0	400.5	356.8	585.7	917.0	887.6	593.6
67.5°	178.0	190.7	252.7	360.8	399.7	292.4	169.3	218.5	252.7	252.7	171.6
70°	108.1	114.4	168.5	245.5	274.2	188.3	123.2	123.2	121.6	119.2	102.5
72.5°	51.7	55.6	85.8	126.3	128.7	99.3	95.4	104.1	101.7	100.9	85.0
75°	22.3	23.8	30.2	39.7	45.3	42.1	58.0	74.7	77.1	74.7	61.2
77.5°	7.2	7.9	11.1	14.3	15.1	18.3	24.6	31.0	35.8	33.4	30.2
80°	0.8	1.6	3.2	7.2	11.1	14.3	18.3	20.7	23.0	23.0	21.5
82.5°	0.8	0.8	3.2	6.4	10.3	13.5	17.5	19.9	23.0	23.8	22.3
85°	0.0	0.8	2.4	5.6	8.7	8.7	7.9	7.9	5.6	5.6	5.6
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	723.9	722.3	700.9	687.4	680.2	665.9	657.2	650.8	646.1	640.5	641.3
5°	733.5	727.9	692.1	667.5	638.1	622.2	608.7	597.6	590.4	588.8	585.7
7.5°	760.5	731.1	677.0	632.5	595.2	579.3	567.4	560.2	563.4	556.3	561.8
10°	781.1	737.4	658.8	594.4	557.1	545.1	538.8	544.3	552.3	549.1	545.1
12.5°	806.6	743.8	629.4	557.8	522.9	514.1	525.3	535.6	551.5	557.8	549.9
15°	835.2	750.9	592.0	515.7	493.5	500.6	519.7	538.0	553.9	561.8	566.6
17.5°	870.1	748.6	555.5	482.4	465.7	486.3	509.4	526.1	549.9	561.8	558.6
20°	902.7	740.6	514.9	449.0	449.8	468.8	487.9	514.9	527.7	543.5	538.0
22.5°	933.7	726.3	472.8	425.9	425.9	455.3	464.9	482.4	493.5	501.4	500.6
25°	977.4	699.3	437.9	403.7	413.2	432.3	440.2	445.8	441.0	447.4	448.2
27.5°	1008.4	671.5	409.2	383.8	401.3	415.6	413.2	410.0	398.9	390.2	395.7
30°	1041.8	638.9	384.6	370.3	379.8	392.6	383.0	373.5	356.0	341.7	342.5
32.5°	1089.5	623.8	363.2	354.4	367.1	368.7	358.4	344.1	326.6	313.1	312.3
35°	1178.5	614.3	344.9	344.1	346.5	347.3	336.9	319.5	312.3	301.2	305.1
37.5°	1267.5	609.5	332.2	329.0	328.2	329.0	317.1	300.4	313.9	313.1	314.7
40°	1381.1	631.0	313.9	309.9	310.7	310.7	295.6	290.8	314.7	317.1	317.9
42.5°	1496.3	658.0	302.0	289.3	292.4	292.4	284.5	278.9	295.6	279.7	277.3
45°	1596.5	697.7	289.3	268.6	276.5	280.5	278.1	268.6	258.3	231.2	231.2
47.5°	1629.0	732.7	274.2	248.7	255.1	272.6	265.4	245.5	227.3	205.0	203.4
50°	1686.3	770.8	262.2	225.7	239.2	260.6	253.5	233.6	213.0	197.1	197.9
52.5°	1745.1	814.5	240.0	198.7	215.4	251.1	251.1	228.9	197.1	185.9	184.4
55°	1833.3	812.9	200.3	162.9	192.3	236.8	240.8	205.0	176.4	167.7	167.7
56°	1846.0	776.4	180.4	152.6	182.0	232.8	233.6	198.7	168.5	158.9	158.9
57.5°	1750.6	700.9	158.1	139.9	169.3	225.7	226.5	193.1	162.1	148.6	147.0
60°	1346.9	474.4	131.9	124.8	153.4	203.4	207.4	175.6	142.2	131.9	131.1
62.5°	760.5	263.0	116.0	112.8	131.9	173.2	185.2	153.4	120.8	115.2	116.8
65°	347.3	144.6	97.7	91.4	106.5	133.5	149.4	126.3	99.3	93.0	93.0
67.5°	127.1	98.5	83.4	72.3	74.7	86.6	96.9	81.8	66.0	56.4	58.8
70°	90.6	82.6	73.1	62.8	58.0	56.4	55.6	46.1	32.6	25.4	27.0
72.5°	73.1	68.3	61.2	53.2	45.3	38.1	32.6	23.8	15.1	10.3	9.5
75°	52.4	50.1	44.5	38.1	31.8	27.0	22.3	15.1	7.9	4.0	4.0
77.5°	27.0	27.0	26.2	23.8	19.9	15.9	12.7	8.7	4.8	1.6	1.6
80°	20.7	22.3	23.0	20.7	18.3	14.3	10.3	6.4	3.2	0.8	0.8
82.5°	19.9	23.0	24.6	21.5	18.3	13.5	10.3	6.4	3.2	0.8	0.8
85°	4.8	4.8	7.2	7.9	10.3	11.1	8.7	5.6	2.4	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0
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)