

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: P647288

Luminaire Tested: **GALN-SA2D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647288
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-SA2D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 7185.6 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

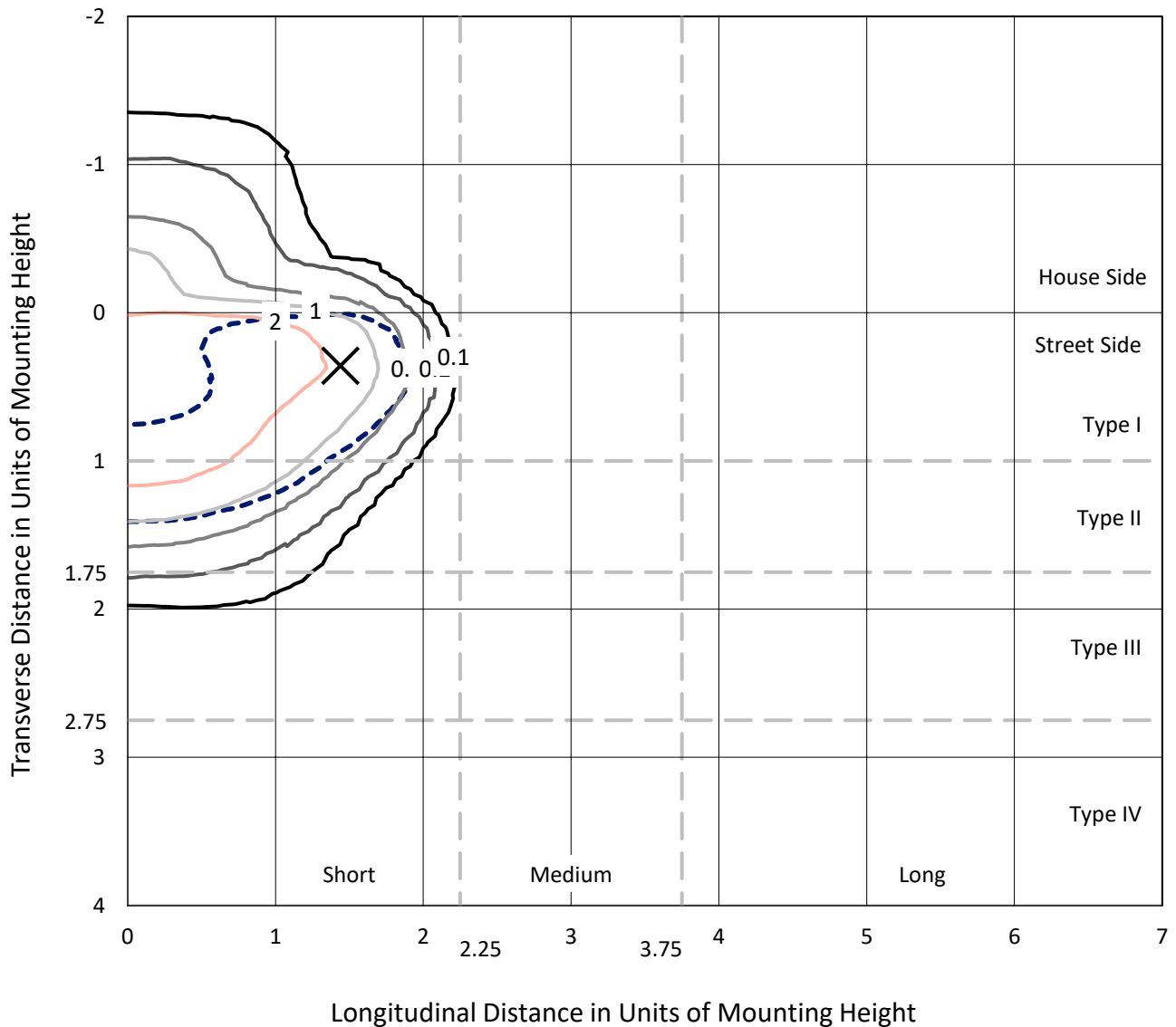
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

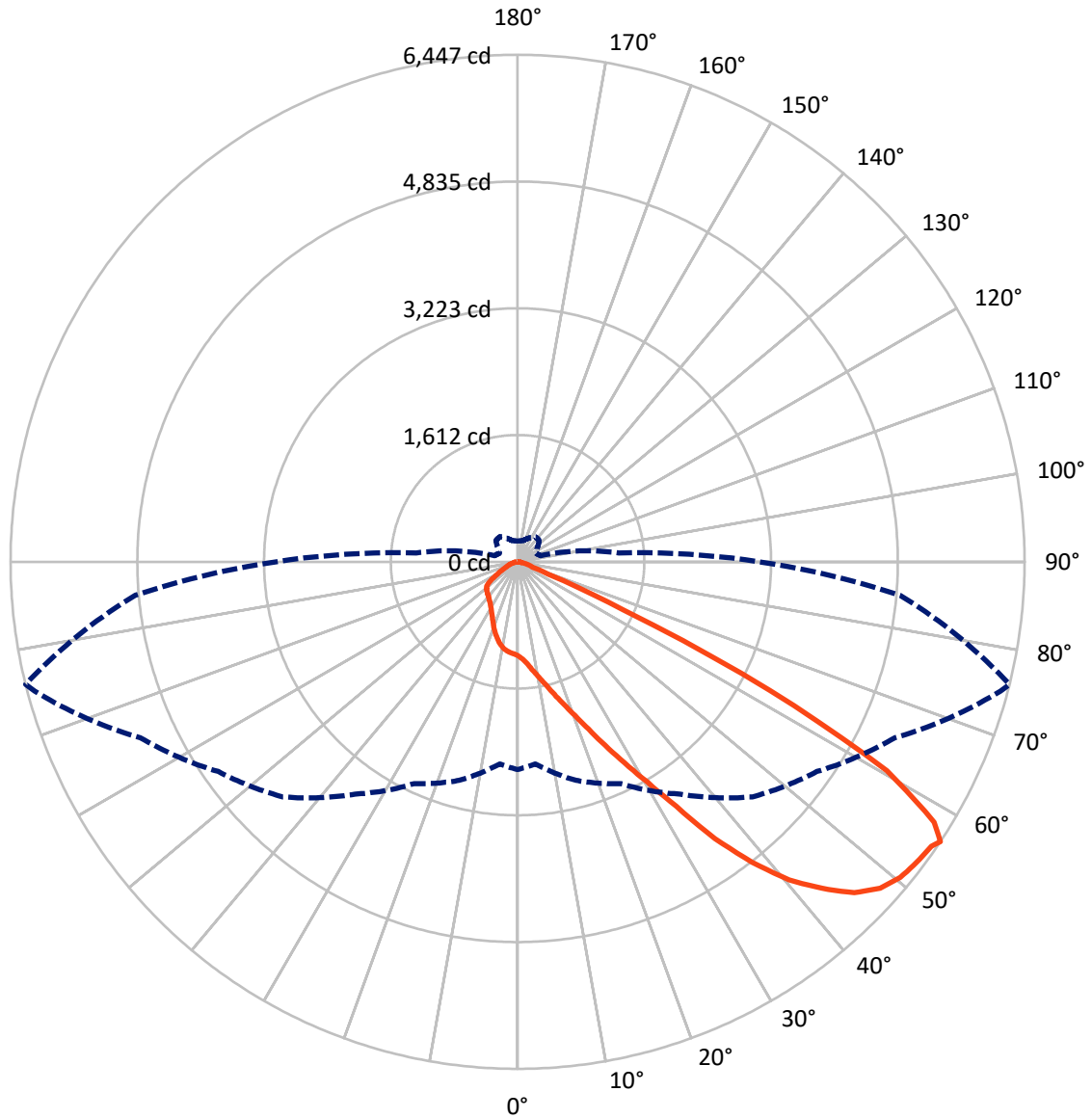
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.8	0.0	1128.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6056.8	0.0	6056.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	7185.6	0.0	7185.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.7
10°-20°	387.1	5.4
20°-30°	701.9	9.8
30°-40°	1210.4	16.8
40°-50°	1966.4	27.4
50°-60°	2072.6	28.8
60°-70°	633.3	8.8
70°-80°	81.2	1.1
80°-90°	12.3	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°	7185.6	100.0
0°-180°	7185.6	100.0

Coefficient of Utilization

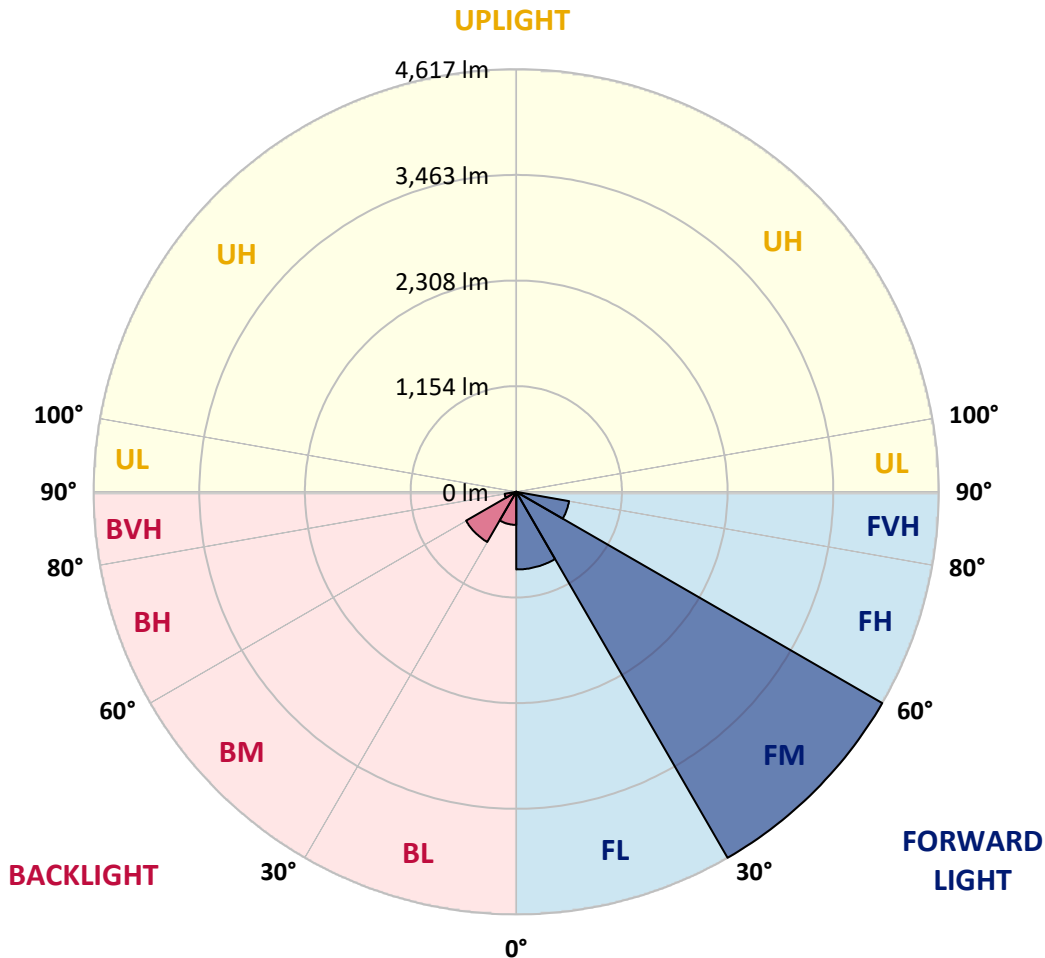


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.3	11.8			
FM (30°-60°)	4616.7	64.2			
FH (60°-80°)	585.7	8.2			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	361.1	5.0	B1/500		
BM (30°-60°)	632.6	8.8	B1/1000		
BH (60°-80°)	128.8	1.8	B1/500		G1/500
BVH (80°-90°)	6.3	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1377.5	1345.7	1347.1	1344.4	1340.4	1325.9	1282.2	1275.5	1246.4	1238.5	1211.9
5°	1543.1	1515.3	1531.2	1507.4	1484.8	1471.6	1400.0	1366.9	1320.5	1303.3	1266.3
7.5°	1646.4	1633.2	1627.9	1629.2	1608.0	1574.8	1543.1	1470.2	1408.0	1394.8	1316.6
10°	1696.8	1688.8	1696.8	1692.8	1702.0	1706.0	1650.3	1606.6	1515.3	1492.7	1370.9
12.5°	1708.7	1724.6	1731.1	1748.4	1770.9	1809.3	1805.4	1745.7	1623.9	1609.3	1454.3
15°	1737.8	1751.0	1744.4	1772.2	1814.6	1879.5	1914.0	1904.6	1773.6	1747.0	1551.0
17.5°	1764.3	1740.5	1762.9	1818.6	1861.0	1960.3	2043.8	2082.2	1936.4	1906.0	1639.8
20°	1800.0	1793.4	1789.5	1817.3	1892.7	2025.2	2190.8	2261.0	2119.3	2087.5	1766.9
22.5°	1908.6	1910.0	1907.3	1866.3	1920.5	2070.3	2319.2	2492.8	2337.8	2311.3	1911.3
25°	2051.7	2034.5	2021.2	1988.1	1981.5	2111.3	2449.1	2776.2	2600.0	2581.6	2067.6
27.5°	2202.7	2202.7	2163.0	2132.5	2090.1	2213.3	2568.2	3051.7	2916.6	2891.5	2204.0
30°	2366.9	2376.2	2370.9	2306.0	2279.5	2324.6	2690.2	3404.0	3279.5	3247.7	2429.2
32.5°	2609.3	2589.5	2612.0	2557.7	2479.5	2519.2	2882.1	3719.2	3751.0	3706.0	2724.5
35°	2929.8	2917.9	2903.4	2814.7	2721.9	2753.7	3153.7	4107.4	4343.1	4320.6	3022.6
37.5°	3217.3	3210.7	3198.7	3137.8	3030.5	3069.0	3462.3	4511.3	4920.6	4846.5	3443.8
40°	3519.3	3555.1	3516.6	3462.3	3364.3	3449.1	3825.3	4751.1	5406.8	5316.6	3765.7
42.5°	3928.5	3900.7	3918.0	3818.6	3765.7	3858.4	4189.5	4990.8	5784.3	5676.9	4107.4
45°	4364.4	4365.7	4319.3	4287.5	4149.7	4250.4	4413.4	5123.3	6084.9	6001.5	4365.7
47.5°	4643.8	4642.5	4692.8	4743.2	4601.5	4502.1	4565.7	5249.2	6239.9	6201.4	4459.7
50°	4600.1	4613.4	4678.3	4866.3	4940.5	4806.8	4708.7	5212.0	6310.0	6306.1	4540.5
52.5°	4001.4	4045.1	4153.7	4425.3	4798.8	4964.4	4858.4	5280.9	6344.5	6351.1	4661.0
55°	3046.4	3070.3	3276.9	3606.7	4019.9	4586.9	4798.8	5335.2	6371.0	6382.9	4806.8
56°	2642.5	2578.9	2876.9	3111.3	3605.4	4225.2	4647.8	5292.8	6355.1	6446.5	4879.6
57.5°	1994.8	1952.3	2193.4	2486.2	2961.6	3616.0	4178.9	5092.8	6247.8	6246.5	4775.0
60°	1213.3	1170.9	1356.3	1528.5	1794.7	2226.5	2823.9	4055.7	5282.2	5393.5	3866.3
62.5°	721.8	748.4	931.1	1035.8	1121.9	1166.9	1460.9	2410.6	3524.6	3604.1	2398.7
65°	480.8	490.1	627.8	800.0	838.4	667.6	594.7	976.2	1528.5	1479.5	989.4
67.5°	296.7	317.9	421.2	601.3	666.3	487.4	282.1	364.3	421.2	421.2	286.1
70°	180.2	190.7	280.8	409.3	457.0	313.9	205.3	205.3	202.6	198.6	170.9
72.5°	86.1	92.7	143.1	210.6	214.5	165.6	158.9	173.5	169.5	168.2	141.7
75°	37.1	39.7	50.3	66.2	75.5	70.2	96.7	124.5	128.5	124.5	102.0
77.5°	11.9	13.2	18.6	23.8	25.1	30.5	41.0	51.7	59.6	55.6	50.3
80°	1.3	2.7	5.3	11.9	18.6	23.8	30.5	34.5	38.4	38.4	35.8
82.5°	1.3	1.3	5.3	10.6	17.2	22.6	29.1	33.1	38.4	39.7	37.1
85°	0.0	1.3	4.0	9.2	14.6	14.6	13.2	13.2	9.2	9.2	9.2
87.5°	0.0	0.0	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
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°	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1206.7	1204.0	1168.2	1145.7	1133.8	1110.0	1095.4	1084.8	1076.9	1067.5	1068.9
5°	1222.6	1213.3	1153.7	1112.6	1063.6	1037.1	1014.6	996.1	984.2	981.5	976.2
7.5°	1267.6	1218.6	1128.5	1054.3	992.1	965.6	945.7	933.8	939.1	927.2	936.5
10°	1302.1	1229.2	1098.0	990.7	928.5	908.6	898.0	907.3	920.6	915.2	908.6
12.5°	1344.4	1239.7	1049.1	929.8	871.6	857.0	875.6	892.7	919.2	929.8	916.6
15°	1392.1	1251.7	986.8	859.7	822.5	834.4	866.2	896.7	923.2	936.5	944.4
17.5°	1450.4	1247.7	925.8	804.0	776.2	810.6	849.0	876.8	916.6	936.5	931.1
20°	1504.7	1234.5	858.3	748.4	749.7	781.5	813.2	858.3	879.5	906.0	896.7
22.5°	1556.3	1210.6	788.1	709.9	709.9	759.0	774.9	804.0	822.5	835.8	834.4
25°	1629.2	1165.6	729.8	672.8	688.7	720.5	733.8	743.1	735.1	745.7	747.1
27.5°	1680.9	1119.2	682.1	639.7	668.9	692.7	688.7	683.5	664.9	650.4	659.6
30°	1736.5	1065.0	641.0	617.2	633.1	654.4	638.5	622.6	593.4	569.6	570.9
32.5°	1815.9	1039.7	605.3	590.8	611.9	614.6	597.4	573.5	544.4	521.9	520.5
35°	1964.3	1023.9	574.9	573.5	577.5	578.8	561.6	532.4	520.5	502.0	508.6
37.5°	2112.6	1015.9	553.7	548.3	547.0	548.3	528.5	500.7	523.2	521.9	524.5
40°	2302.0	1051.6	523.2	516.5	517.9	517.9	492.7	484.8	524.5	528.5	529.8
42.5°	2494.1	1096.7	503.3	482.1	487.4	487.4	474.2	464.9	492.7	466.2	462.3
45°	2660.9	1162.9	482.1	447.7	461.0	467.5	463.6	447.7	430.5	385.5	385.5
47.5°	2715.3	1221.2	457.0	414.6	425.2	454.3	442.4	409.3	378.8	341.7	339.1
50°	2810.7	1284.8	437.1	376.2	398.7	434.4	422.5	389.4	355.0	328.5	329.8
52.5°	2908.7	1357.6	400.0	331.1	358.9	418.5	418.5	381.5	328.5	309.9	307.3
55°	3055.7	1355.0	333.8	271.5	320.6	394.7	401.4	341.7	294.0	279.5	279.5
56°	3076.9	1294.1	300.7	254.3	303.3	388.1	389.4	331.1	280.8	264.9	264.9
57.5°	2917.9	1168.2	263.6	233.1	282.1	376.2	377.5	321.9	270.2	247.7	245.0
60°	2245.1	790.8	219.9	208.0	255.6	339.1	345.7	292.7	237.1	219.9	218.5
62.5°	1267.6	438.4	193.4	188.1	219.9	288.8	308.6	255.6	201.3	192.1	194.7
65°	578.8	241.1	162.9	152.3	177.5	222.5	249.0	210.6	165.6	155.0	155.0
67.5°	212.0	164.3	139.1	120.5	124.5	144.4	161.6	136.4	109.9	94.0	98.0
70°	151.0	137.7	121.8	104.6	96.7	94.0	92.7	76.8	54.3	42.4	45.0
72.5°	121.8	113.9	102.0	88.7	75.5	63.6	54.3	39.7	25.1	17.2	15.9
75°	87.4	83.5	74.2	63.6	53.0	45.0	37.1	25.1	13.2	6.7	6.7
77.5°	45.0	45.0	43.7	39.7	33.1	26.5	21.2	14.6	7.9	2.7	2.7
80°	34.5	37.1	38.4	34.5	30.5	23.8	17.2	10.6	5.3	1.3	1.3
82.5°	33.1	38.4	41.0	35.8	30.5	22.6	17.2	10.6	5.3	1.3	1.3
85°	7.9	7.9	11.9	13.2	17.2	18.6	14.6	9.2	4.0	1.3	1.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	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)