

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: P528863

Luminaire Tested: **GALN-SA4A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528863
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-SA4A-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 8925 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

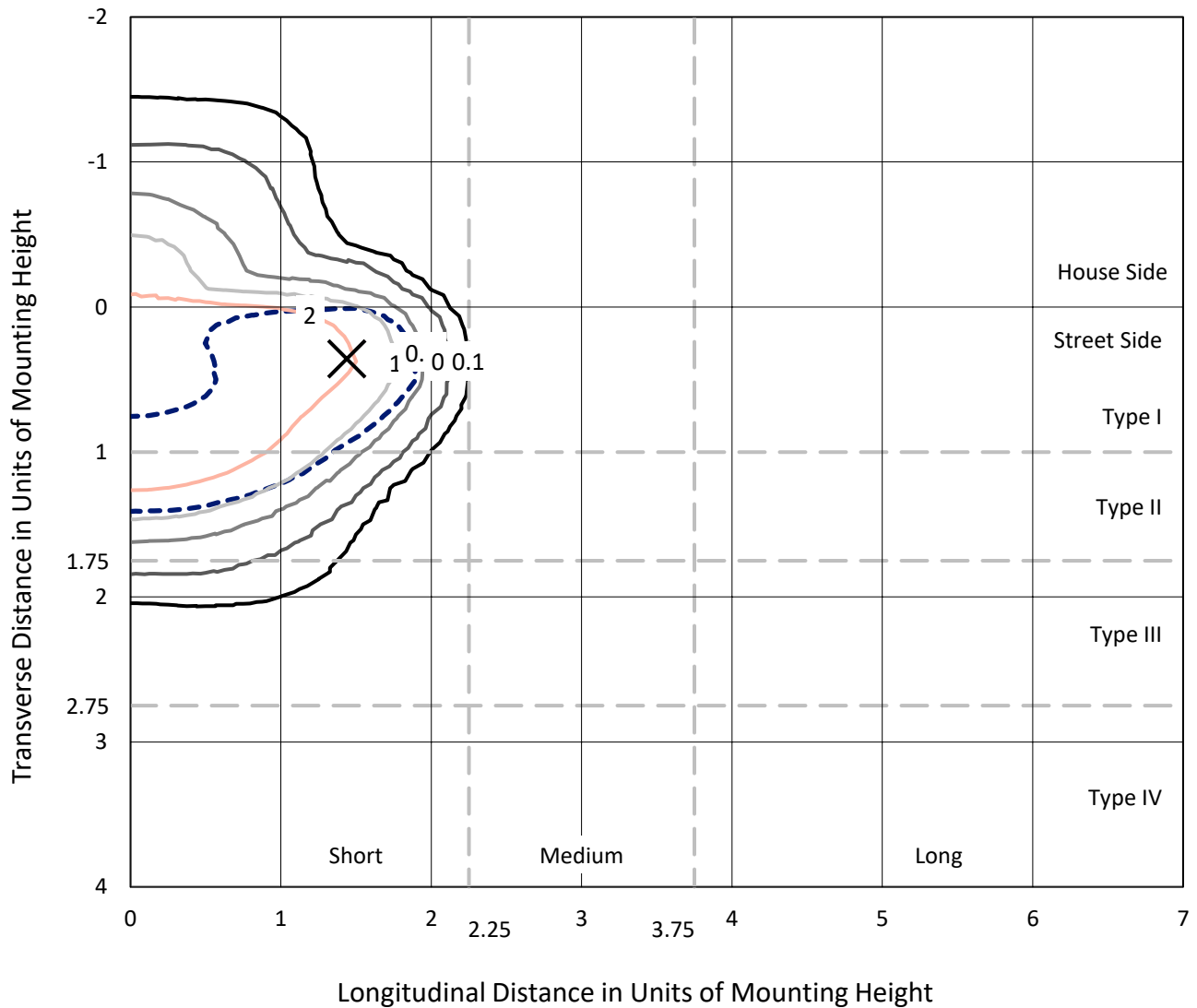
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

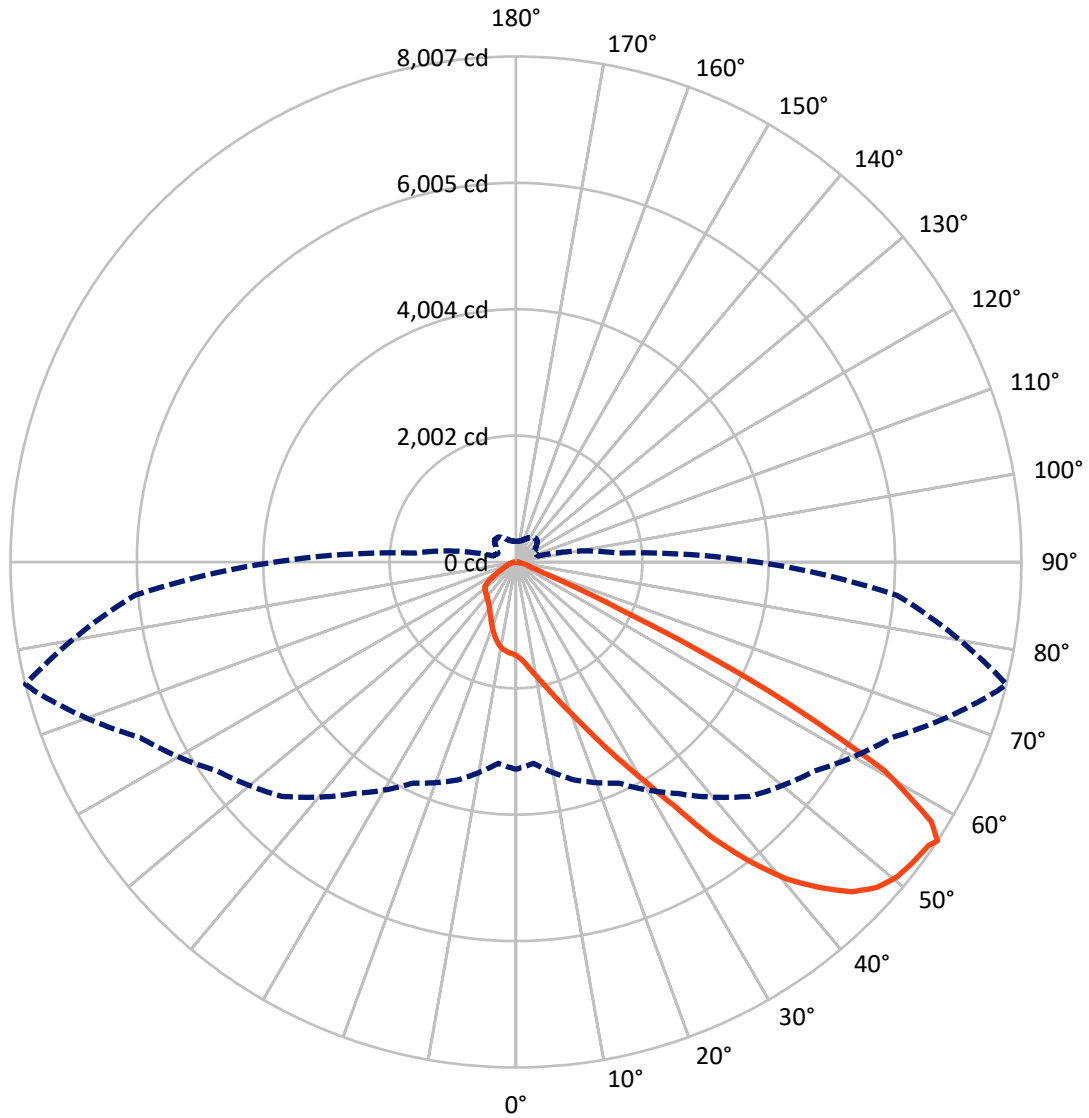
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1402.1	0.0	1402.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7522.9	0.0	7522.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	8925.0	0.0	8925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	1.7
10°-20°	480.8	5.4
20°-30°	871.8	9.8
30°-40°	1503.4	16.8
40°-50°	2442.3	27.4
50°-60°	2574.3	28.8
60°-70°	786.6	8.8
70°-80°	100.8	1.1
80°-90°	15.3	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°	8925.0	100.0
0°-180°	8925.0	100.0

Coefficient of Utilization



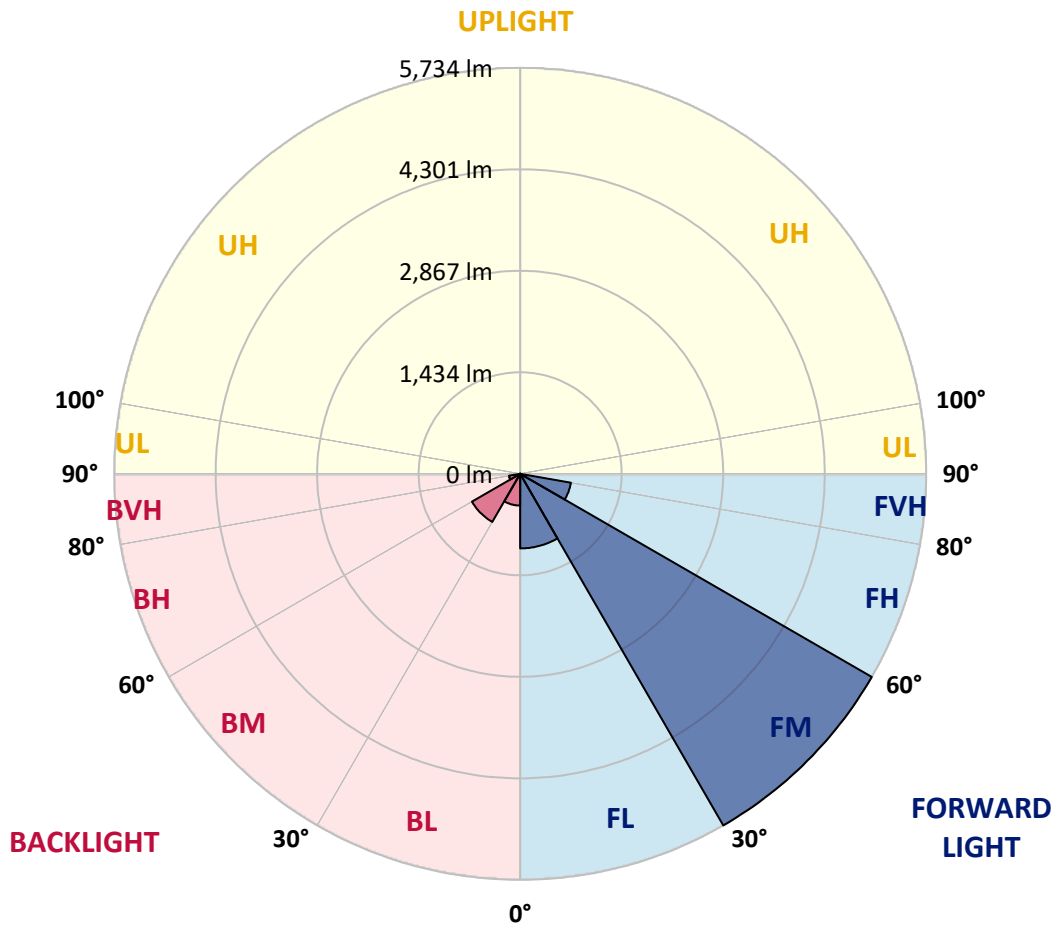
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.7	11.8			
FM (30°-60°)	5734.3	64.2			
FH (60°-80°)	727.4	8.2			G1/1800
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	448.5	5.0	B1/500		
BM (30°-60°)	785.8	8.8	B1/1000		
BH (60°-80°)	160.0	1.8	B1/500		G1/500
BVH (80°-90°)	7.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1711.0	1671.5	1673.1	1669.8	1664.9	1646.8	1592.5	1584.3	1548.1	1538.2	1505.3
5°	1916.6	1882.1	1901.8	1872.2	1844.2	1827.8	1738.9	1697.8	1640.2	1618.8	1572.8
7.5°	2044.9	2028.5	2021.9	2023.5	1997.2	1956.1	1916.6	1826.1	1748.8	1732.4	1635.3
10°	2107.5	2097.6	2107.5	2102.5	2114.0	2119.0	2049.9	1995.6	1882.1	1854.1	1702.7
12.5°	2122.3	2142.0	2150.2	2171.6	2199.6	2247.3	2242.4	2168.3	2017.0	1998.9	1806.4
15°	2158.5	2174.9	2166.7	2201.2	2253.9	2334.5	2377.3	2365.7	2202.9	2170.0	1926.5
17.5°	2191.4	2161.7	2189.7	2258.8	2311.5	2434.8	2538.5	2586.2	2405.2	2367.4	2036.7
20°	2235.8	2227.5	2222.6	2257.2	2350.9	2515.4	2721.1	2808.3	2632.3	2592.8	2194.6
22.5°	2370.7	2372.3	2369.0	2318.0	2385.5	2571.4	2880.7	3096.2	2903.7	2870.8	2374.0
25°	2548.4	2527.0	2510.5	2469.4	2461.2	2622.4	3041.9	3448.3	3229.4	3206.4	2568.1
27.5°	2735.9	2735.9	2686.5	2648.7	2596.1	2749.1	3190.0	3790.4	3622.6	3591.4	2737.5
30°	2939.9	2951.4	2944.8	2864.2	2831.3	2887.3	3341.3	4228.1	4073.4	4033.9	3017.2
32.5°	3241.0	3216.3	3244.3	3176.8	3079.7	3129.1	3579.9	4619.6	4659.1	4603.2	3384.1
35°	3639.1	3624.3	3606.2	3496.0	3380.8	3420.3	3917.1	5101.6	5394.5	5366.5	3754.3
37.5°	3996.1	3987.9	3973.1	3897.4	3764.1	3811.8	4300.4	5603.4	6111.8	6019.6	4277.4
40°	4371.2	4415.6	4367.9	4300.4	4178.7	4284.0	4751.2	5901.2	6715.5	6603.7	4677.2
42.5°	4879.5	4845.0	4866.4	4743.0	4677.2	4792.4	5203.6	6199.0	7184.4	7051.2	5101.6
45°	5420.8	5422.4	5364.9	5325.4	5154.3	5279.3	5481.7	6363.5	7557.9	7454.2	5422.4
47.5°	5767.9	5766.3	5828.8	5891.3	5715.3	5591.9	5670.9	6519.8	7750.3	7702.6	5539.3
50°	5713.6	5730.1	5810.7	6044.3	6136.4	5970.3	5848.5	6473.7	7837.5	7832.6	5639.6
52.5°	4970.0	5024.3	5159.2	5496.5	5960.4	6166.1	6034.4	6559.3	7880.3	7888.5	5789.3
55°	3783.9	3813.5	4070.1	4479.8	4993.1	5697.2	5960.4	6626.7	7913.2	7928.0	5970.3
56°	3282.1	3203.1	3573.3	3864.5	4478.1	5248.1	5772.9	6574.1	7893.5	8007.0	6060.8
57.5°	2477.6	2425.0	2724.4	3088.0	3678.6	4491.3	5190.5	6325.6	7760.2	7758.6	5930.8
60°	1507.0	1454.3	1684.6	1898.5	2229.2	2765.5	3507.5	5037.5	6560.9	6699.1	4802.2
62.5°	896.6	929.5	1156.5	1286.5	1393.5	1449.4	1814.6	2994.2	4377.8	4476.5	2979.4
65°	597.2	608.7	779.8	993.7	1041.4	829.2	738.7	1212.5	1898.5	1837.6	1228.9
67.5°	368.5	394.8	523.2	746.9	827.5	605.4	350.4	452.4	523.2	523.2	355.4
70°	223.7	236.9	348.8	508.4	567.6	389.9	255.0	255.0	251.7	246.8	212.2
72.5°	106.9	115.2	177.7	261.6	266.5	205.6	197.4	215.5	210.6	208.9	176.0
75°	46.1	49.4	62.5	82.3	93.8	87.2	120.1	154.6	159.6	154.6	126.7
77.5°	14.8	16.5	23.0	29.6	31.3	37.8	51.0	64.2	74.0	69.1	62.5
80°	1.6	3.3	6.6	14.8	23.0	29.6	37.8	42.8	47.7	47.7	44.4
82.5°	1.6	1.6	6.6	13.2	21.4	28.0	36.2	41.1	47.7	49.4	46.1
85°	0.0	1.6	4.9	11.5	18.1	18.1	16.5	16.5	11.5	11.5	11.5
87.5°	0.0	0.0	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3
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°	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1498.7	1495.5	1451.0	1423.1	1408.3	1378.6	1360.5	1347.4	1337.5	1326.0	1327.6
5°	1518.5	1507.0	1432.9	1381.9	1321.1	1288.2	1260.2	1237.2	1222.4	1219.1	1212.5
7.5°	1574.4	1513.5	1401.7	1309.5	1232.2	1199.3	1174.6	1159.8	1166.4	1151.6	1163.1
10°	1617.2	1526.7	1363.8	1230.6	1153.3	1128.6	1115.4	1126.9	1143.4	1136.8	1128.6
12.5°	1669.8	1539.9	1303.0	1154.9	1082.5	1064.4	1087.5	1108.8	1141.7	1154.9	1138.5
15°	1729.1	1554.7	1225.6	1067.7	1021.6	1036.5	1075.9	1113.8	1146.7	1163.1	1173.0
17.5°	1801.5	1549.7	1150.0	998.6	964.1	1006.8	1054.5	1089.1	1138.5	1163.1	1156.5
20°	1868.9	1533.3	1066.1	929.5	931.2	970.6	1010.1	1066.1	1092.4	1125.3	1113.8
22.5°	1933.1	1503.7	978.9	881.8	881.8	942.7	962.4	998.6	1021.6	1038.1	1036.5
25°	2023.5	1447.7	906.5	835.7	855.5	895.0	911.4	922.9	913.1	926.2	927.9
27.5°	2087.7	1390.2	847.3	794.6	830.8	860.4	855.5	848.9	825.9	807.8	819.3
30°	2156.8	1322.7	796.3	766.6	786.4	812.7	793.0	773.2	737.0	707.4	709.1
32.5°	2255.5	1291.5	751.8	733.7	760.1	763.4	742.0	712.4	676.2	648.2	646.5
35°	2439.8	1271.7	714.0	712.4	717.3	718.9	697.5	661.4	646.5	623.5	631.7
37.5°	2624.0	1261.8	687.7	681.1	679.5	681.1	656.4	621.9	649.8	648.2	651.5
40°	2859.3	1306.3	649.8	641.6	643.3	643.3	612.0	602.1	651.5	656.4	658.1
42.5°	3097.8	1362.2	625.2	598.8	605.4	605.4	589.0	577.5	612.0	579.1	574.2
45°	3305.1	1444.5	598.8	556.1	572.5	580.7	575.8	556.1	534.7	478.7	478.7
47.5°	3372.6	1516.8	567.6	514.9	528.1	564.3	549.5	508.4	470.5	424.5	421.2
50°	3491.0	1595.8	542.9	467.2	495.2	539.6	524.8	483.7	440.9	408.0	409.6
52.5°	3612.8	1686.3	496.8	411.3	445.8	519.9	519.9	473.8	408.0	385.0	381.7
55°	3795.4	1683.0	414.6	337.3	398.1	490.3	498.5	424.5	365.2	347.1	347.1
56°	3821.7	1607.3	373.5	315.9	376.7	482.0	483.7	411.3	348.8	329.0	329.0
57.5°	3624.3	1451.0	327.4	289.5	350.4	467.2	468.9	399.8	335.6	307.6	304.4
60°	2788.5	982.2	273.1	258.3	317.5	421.2	429.4	363.6	294.5	273.1	271.5
62.5°	1574.4	544.5	240.2	233.6	273.1	358.6	383.3	317.5	250.1	238.5	241.8
65°	718.9	299.4	202.4	189.2	220.5	276.4	309.3	261.6	205.6	192.5	192.5
67.5°	263.2	204.0	172.7	149.7	154.6	179.3	200.7	169.5	136.5	116.8	121.7
70°	187.5	171.1	151.4	130.0	120.1	116.8	115.2	95.4	67.5	52.6	55.9
72.5°	151.4	141.5	126.7	110.2	93.8	79.0	67.5	49.4	31.3	21.4	19.7
75°	108.6	103.6	92.1	79.0	65.8	55.9	46.1	31.3	16.5	8.2	8.2
77.5°	55.9	55.9	54.3	49.4	41.1	32.9	26.3	18.1	9.9	3.3	3.3
80°	42.8	46.1	47.7	42.8	37.8	29.6	21.4	13.2	6.6	1.6	1.6
82.5°	41.1	47.7	51.0	44.4	37.8	28.0	21.4	13.2	6.6	1.6	1.6
85°	9.9	9.9	14.8	16.5	21.4	23.0	18.1	11.5	4.9	1.6	1.6
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	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)