

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: P530033

Luminaire Tested: **GALN-SA5B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530033
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-SA5B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 14058 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

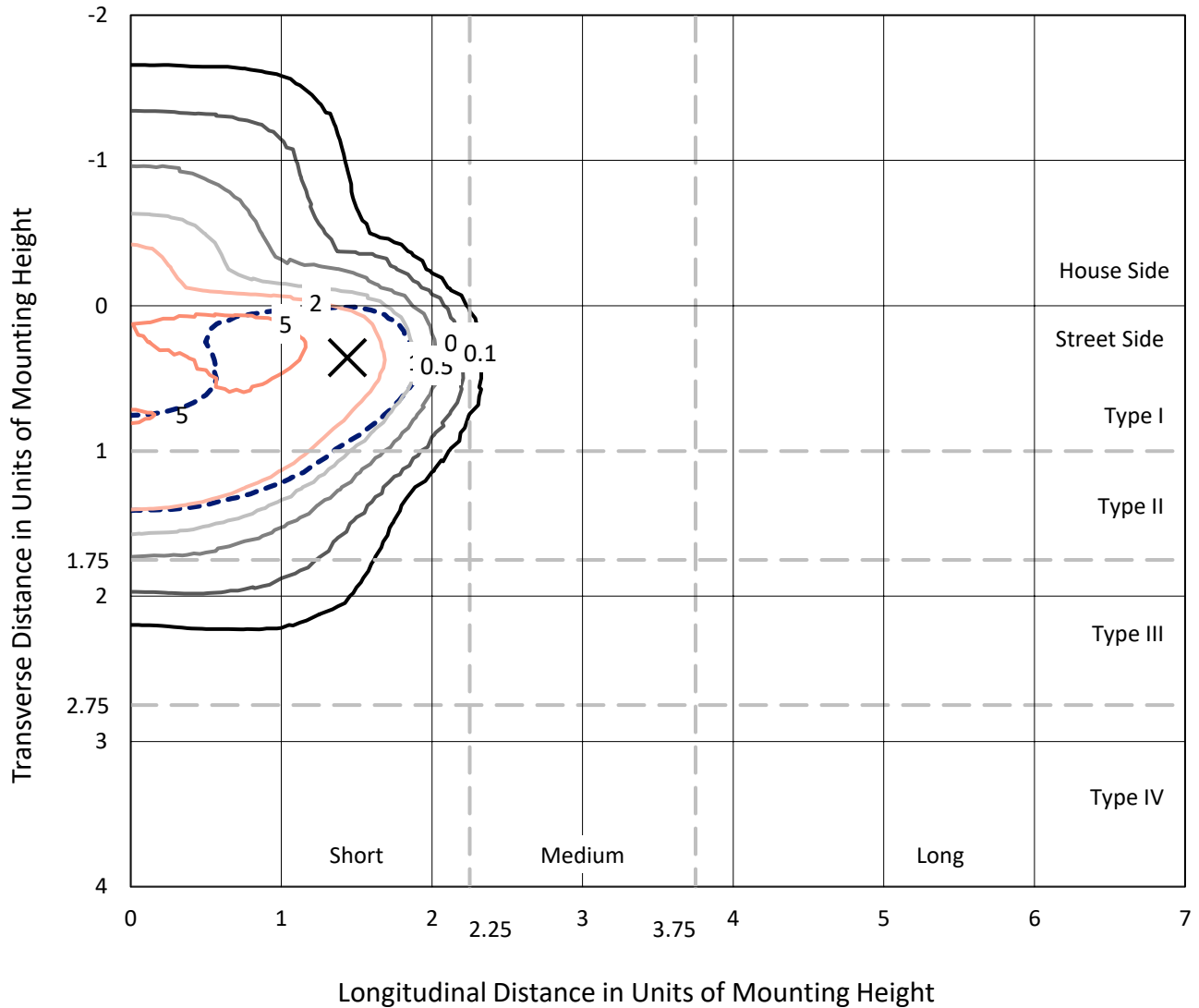
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

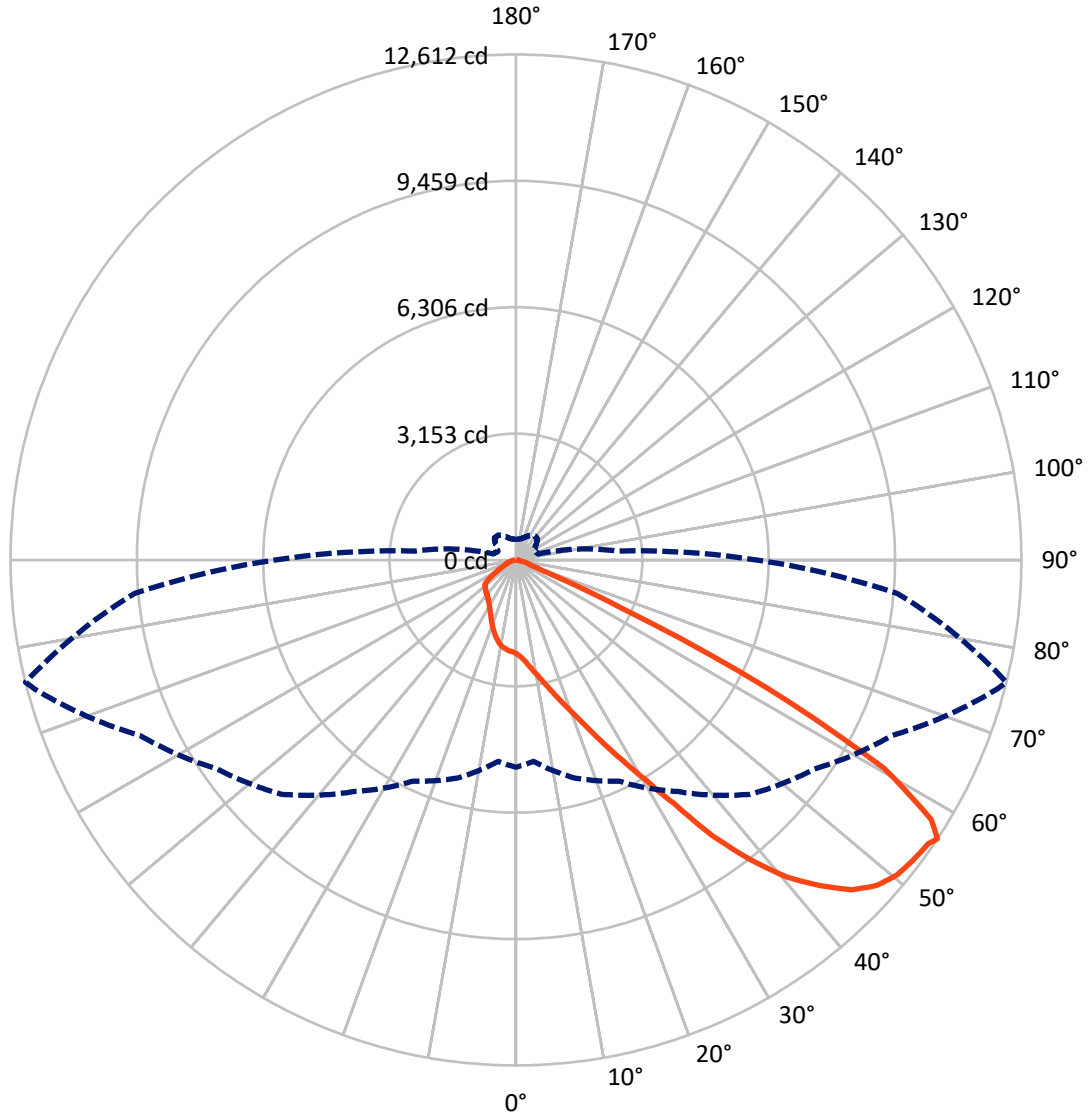
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2208.4	0.0	2208.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11849.6	0.0	11849.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	14058.0	0.0	14058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.7
10°-20°	757.3	5.4
20°-30°	1373.1	9.8
30°-40°	2368.1	16.8
40°-50°	3847.0	27.4
50°-60°	4054.9	28.8
60°-70°	1238.9	8.8
70°-80°	158.8	1.1
80°-90°	24.1	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°	14058.0	100.0
0°-180°	14058.0	100.0

Coefficient of Utilization

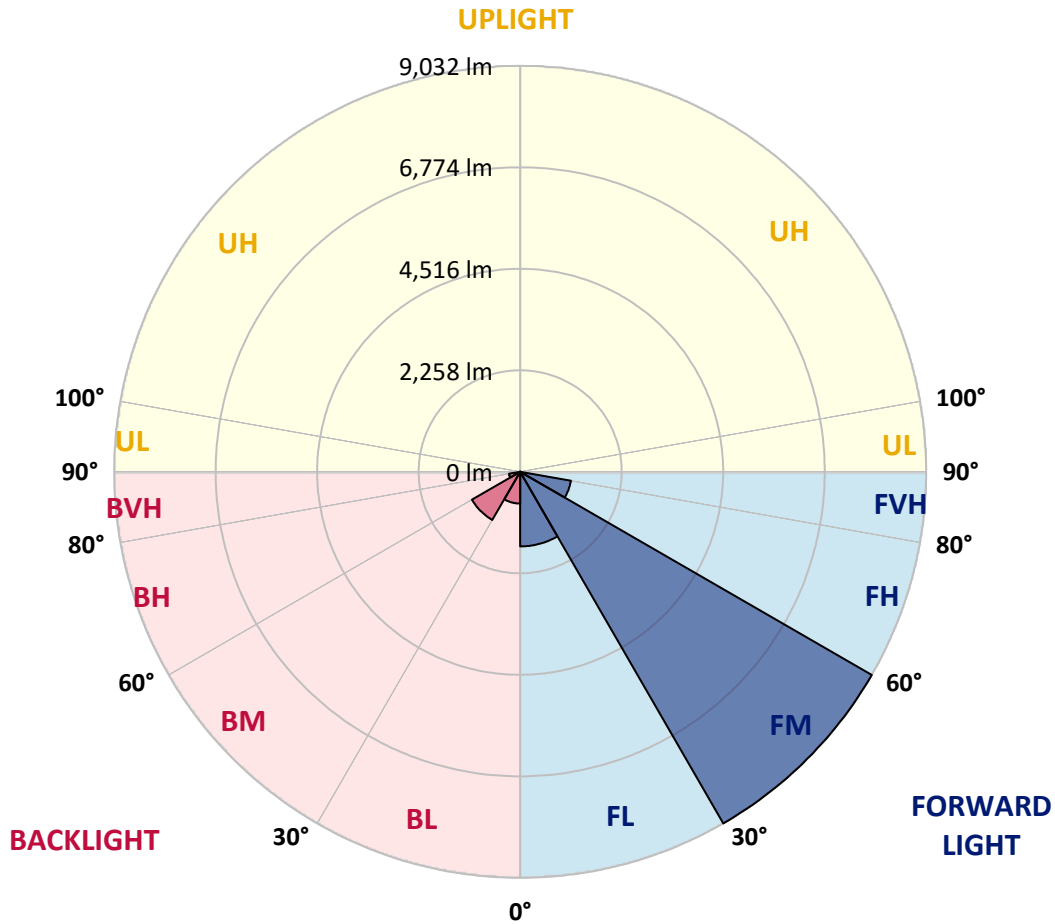


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.7	11.8			
FM (30°-60°)	9032.2	64.2			
FH (60°-80°)	1145.8	8.2			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	706.5	5.0	B2/1000		
BM (30°-60°)	1237.7	8.8	B2/2500		
BH (60°-80°)	251.9	1.8	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0
2.5°	2695.0	2632.8	2635.4	2630.2	2622.4	2593.9	2508.4	2495.5	2438.4	2422.9	2371.1
5°	3018.9	2964.5	2995.6	2948.9	2904.9	2879.0	2739.0	2674.3	2583.6	2549.9	2477.3
7.5°	3221.0	3195.1	3184.8	3187.3	3145.9	3081.1	3018.9	2876.4	2754.6	2728.7	2575.8
10°	3319.5	3304.0	3319.5	3311.7	3329.9	3337.6	3228.8	3143.3	2964.5	2920.4	2682.0
12.5°	3342.8	3373.9	3386.9	3420.6	3464.6	3539.8	3532.0	3415.4	3177.0	3148.5	2845.3
15°	3399.8	3425.7	3412.8	3467.2	3550.1	3677.1	3744.5	3726.3	3469.8	3418.0	3034.5
17.5°	3451.7	3405.0	3449.1	3557.9	3640.8	3835.2	3998.4	4073.6	3788.5	3728.9	3208.1
20°	3521.6	3508.7	3500.9	3555.3	3703.0	3962.2	4286.1	4423.4	4146.1	4083.9	3456.8
22.5°	3734.1	3736.7	3731.5	3651.2	3757.4	4050.3	4537.4	4876.9	4573.7	4521.9	3739.3
25°	4014.0	3980.3	3954.4	3889.6	3876.6	4130.6	4791.4	5431.4	5086.8	5050.5	4045.1
27.5°	4309.4	4309.4	4231.6	4172.0	4089.1	4330.1	5024.6	5970.4	5706.1	5656.9	4312.0
30°	4630.7	4648.9	4638.5	4511.5	4459.7	4547.8	5263.0	6659.7	6416.1	6354.0	4752.5
32.5°	5104.9	5066.1	5110.1	5003.9	4851.0	4928.7	5638.7	7276.5	7338.7	7250.6	5330.4
35°	5732.0	5708.7	5680.2	5506.6	5325.2	5387.4	6170.0	8035.7	8497.0	8452.9	5913.4
37.5°	6294.4	6281.4	6258.1	6138.9	5929.0	6004.1	6773.7	8826.1	9626.8	9481.7	6737.5
40°	6885.2	6955.1	6880.0	6773.7	6582.0	6747.8	7483.8	9295.1	10577.8	10401.6	7367.2
42.5°	7685.9	7631.5	7665.2	7470.8	7367.2	7548.6	8196.4	9764.1	11316.4	11106.5	8035.7
45°	8538.4	8541.0	8450.3	8388.2	8118.7	8315.6	8634.3	10023.3	11904.6	11741.3	8541.0
47.5°	9085.2	9082.6	9181.1	9279.6	9002.3	8807.9	8932.3	10269.5	12207.8	12132.6	8725.0
50°	8999.7	9025.6	9152.6	9520.6	9665.7	9404.0	9212.2	10196.9	12345.1	12337.3	8883.1
52.5°	7828.4	7913.9	8126.4	8657.6	9388.4	9712.3	9505.0	10331.7	12412.5	12425.4	9118.9
55°	5960.1	6006.7	6411.0	7056.2	7864.7	8973.8	9388.4	10437.9	12464.3	12487.6	9404.0
56°	5169.7	5045.3	5628.4	6087.0	7053.6	8266.4	9093.0	10355.0	12433.2	12612.0	9546.5
57.5°	3902.6	3819.6	4291.3	4863.9	5794.2	7074.3	8175.7	9963.7	12223.3	12220.7	9341.8
60°	2373.7	2290.7	2653.5	2990.4	3511.3	4356.0	5524.7	7934.7	10334.2	10551.9	7564.1
62.5°	1412.3	1464.1	1821.7	2026.4	2194.9	2283.0	2858.2	4716.2	6895.5	7051.0	4692.9
65°	940.7	958.8	1228.3	1565.2	1640.3	1306.0	1163.5	1909.8	2990.4	2894.5	1935.7
67.5°	580.5	621.9	824.0	1176.5	1303.4	953.6	552.0	712.6	824.0	824.0	559.7
70°	352.4	373.2	549.4	800.7	894.0	614.1	401.7	401.7	396.5	388.7	334.3
72.5°	168.4	181.4	279.9	412.0	419.8	323.9	311.0	339.5	331.7	329.1	277.3
75°	72.6	77.7	98.5	129.6	147.7	137.3	189.2	243.6	251.4	243.6	199.5
77.5°	23.3	25.9	36.3	46.6	49.2	59.6	80.3	101.1	116.6	108.8	98.5
80°	2.6	5.2	10.4	23.3	36.3	46.6	59.6	67.4	75.1	75.1	70.0
82.5°	2.6	2.6	10.4	20.7	33.7	44.1	57.0	64.8	75.1	77.7	72.6
85°	0.0	2.6	7.8	18.1	28.5	28.5	25.9	25.9	18.1	18.1	18.1
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0	2340.0
2.5°	2360.7	2355.5	2285.6	2241.5	2218.2	2171.5	2143.0	2122.3	2106.8	2088.6	2091.2
5°	2391.8	2373.7	2257.1	2176.7	2080.8	2029.0	1985.0	1948.7	1925.4	1920.2	1909.8
7.5°	2479.9	2384.0	2207.8	2062.7	1940.9	1889.1	1850.2	1826.9	1837.3	1813.9	1832.1
10°	2547.3	2404.8	2148.2	1938.3	1816.5	1777.7	1756.9	1775.1	1801.0	1790.6	1777.7
12.5°	2630.2	2425.5	2052.3	1819.1	1705.1	1676.6	1712.9	1746.6	1798.4	1819.1	1793.2
15°	2723.5	2448.8	1930.5	1681.8	1609.2	1632.5	1694.7	1754.3	1806.2	1832.1	1847.6
17.5°	2837.5	2441.0	1811.3	1572.9	1518.5	1585.9	1661.0	1715.5	1793.2	1832.1	1821.7
20°	2943.8	2415.1	1679.2	1464.1	1466.7	1528.9	1591.1	1679.2	1720.6	1772.5	1754.3
22.5°	3044.8	2368.5	1541.8	1389.0	1389.0	1484.8	1515.9	1572.9	1609.2	1635.1	1632.5
25°	3187.3	2280.4	1427.8	1316.4	1347.5	1409.7	1435.6	1453.7	1438.2	1458.9	1461.5
27.5°	3288.4	2189.7	1334.5	1251.6	1308.6	1355.3	1347.5	1337.1	1300.9	1272.3	1290.5
30°	3397.2	2083.4	1254.2	1207.6	1238.7	1280.1	1249.0	1217.9	1160.9	1114.3	1116.9
32.5°	3552.7	2034.2	1184.2	1155.7	1197.2	1202.4	1168.7	1122.0	1065.0	1021.0	1018.4
35°	3842.9	2003.1	1124.6	1122.0	1129.8	1132.4	1098.7	1041.7	1018.4	982.1	995.1
37.5°	4133.2	1987.6	1083.2	1072.8	1070.2	1072.8	1033.9	979.5	1023.6	1021.0	1026.2
40°	4503.7	2057.5	1023.6	1010.6	1013.2	1013.2	964.0	948.4	1026.2	1033.9	1036.5
42.5°	4879.5	2145.6	984.7	943.2	953.6	953.6	927.7	909.6	964.0	912.1	904.4
45°	5206.0	2275.2	943.2	875.9	901.8	914.7	907.0	875.9	842.2	754.1	754.1
47.5°	5312.2	2389.2	894.0	811.1	831.8	888.8	865.5	800.7	741.1	668.6	663.4
50°	5498.8	2513.6	855.1	735.9	780.0	850.0	826.6	761.9	694.5	642.7	645.2
52.5°	5690.6	2656.1	782.6	647.8	702.3	818.9	818.9	746.3	642.7	606.4	601.2
55°	5978.2	2650.9	653.0	531.2	627.1	772.2	785.2	668.6	575.3	546.8	546.8
56°	6019.7	2531.7	588.2	497.5	593.4	759.3	761.9	647.8	549.4	518.3	518.3
57.5°	5708.7	2285.6	515.7	456.1	552.0	735.9	738.5	629.7	528.6	484.6	479.4
60°	4392.3	1547.0	430.2	406.8	500.1	663.4	676.3	572.7	463.8	430.2	427.6
62.5°	2479.9	857.7	378.3	368.0	430.2	564.9	603.8	500.1	393.9	375.7	380.9
65°	1132.4	471.6	318.7	298.0	347.2	435.3	487.2	412.0	323.9	303.2	303.2
67.5°	414.6	321.3	272.1	235.8	243.6	282.5	316.1	266.9	215.1	184.0	191.8
70°	295.4	269.5	238.4	204.7	189.2	184.0	181.4	150.3	106.2	82.9	88.1
72.5°	238.4	222.9	199.5	173.6	147.7	124.4	106.2	77.7	49.2	33.7	31.1
75°	171.0	163.3	145.1	124.4	103.7	88.1	72.6	49.2	25.9	13.0	13.0
77.5°	88.1	88.1	85.5	77.7	64.8	51.8	41.5	28.5	15.5	5.2	5.2
80°	67.4	72.6	75.1	67.4	59.6	46.6	33.7	20.7	10.4	2.6	2.6
82.5°	64.8	75.1	80.3	70.0	59.6	44.1	33.7	20.7	10.4	2.6	2.6
85°	15.5	15.5	23.3	25.9	33.7	36.3	28.5	18.1	7.8	2.6	2.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	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)