

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: P533783

Luminaire Tested: **GALN-SA9B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26237 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

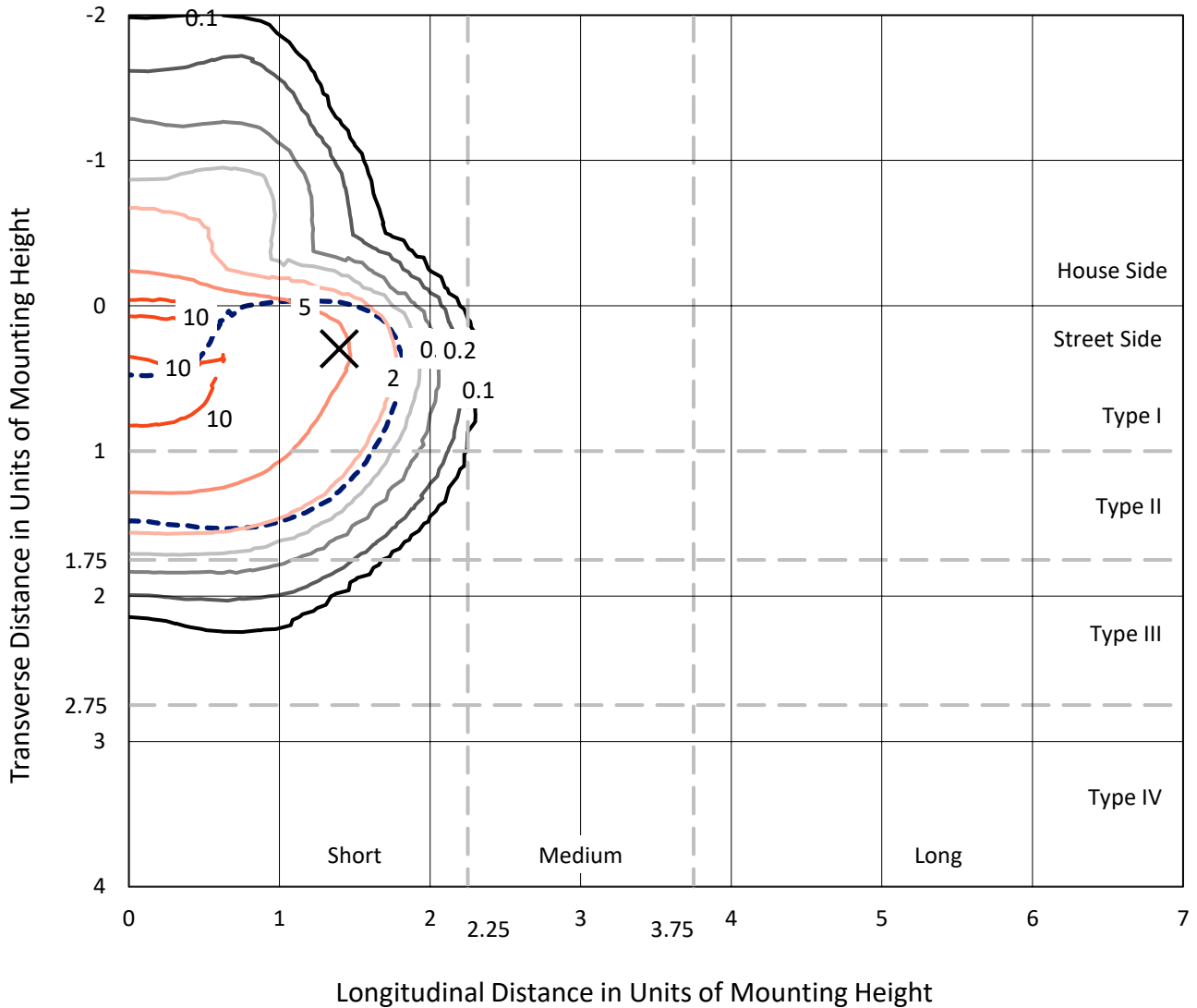
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

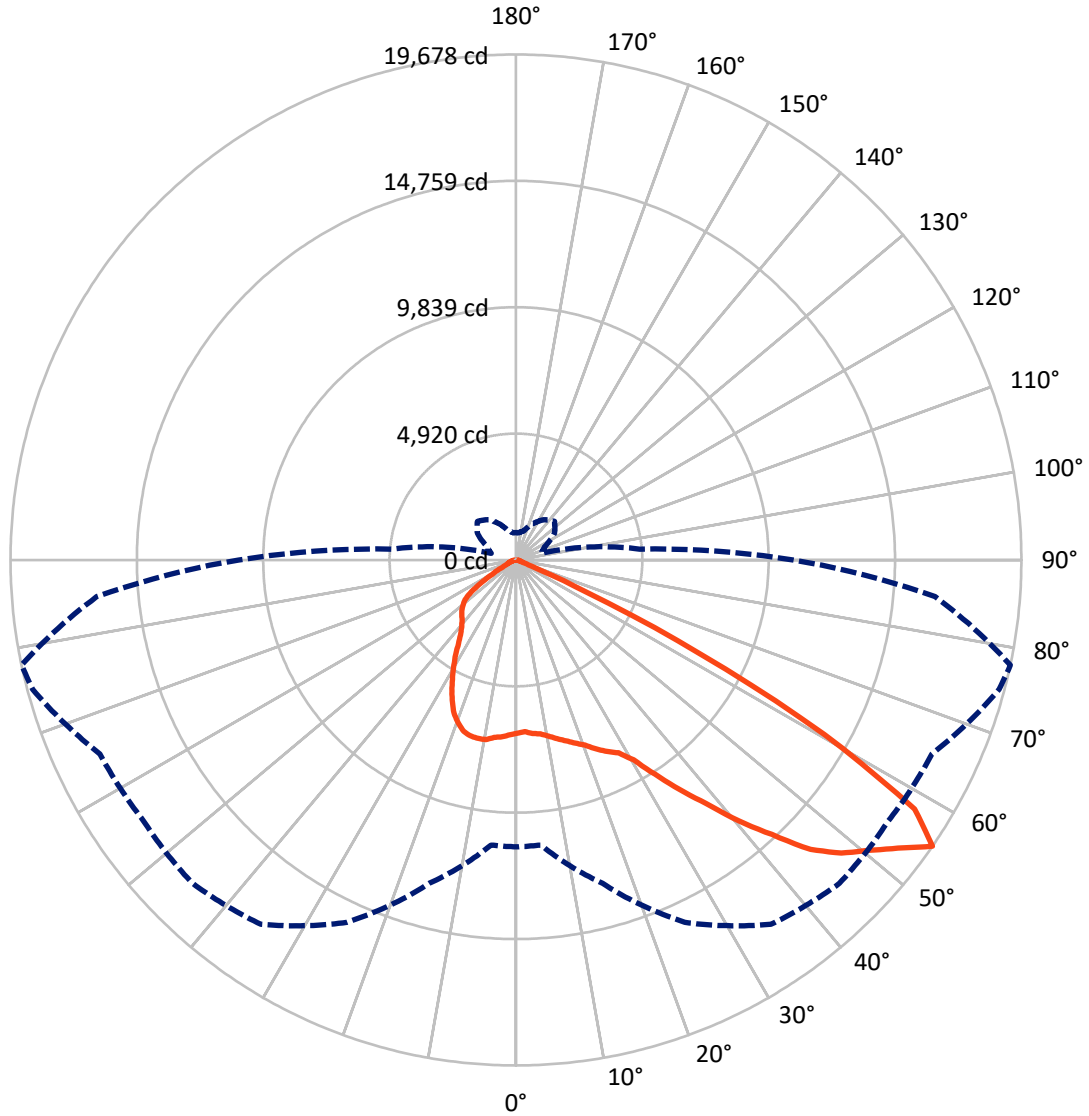
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4873.2	0.0	4873.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21363.8	0.0	21363.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26237.0	0.0	26237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.5	2.3
10°-20°	1591.8	6.1
20°-30°	2790.2	10.6
30°-40°	4600.7	17.5
40°-50°	6694.6	25.5
50°-60°	7585.7	28.9
60°-70°	2168.9	8.3
70°-80°	168.4	0.6
80°-90°	35.0	0.1
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°	26237.0	100.0
0°-180°	26237.0	100.0

**Coefficient of Utilization**



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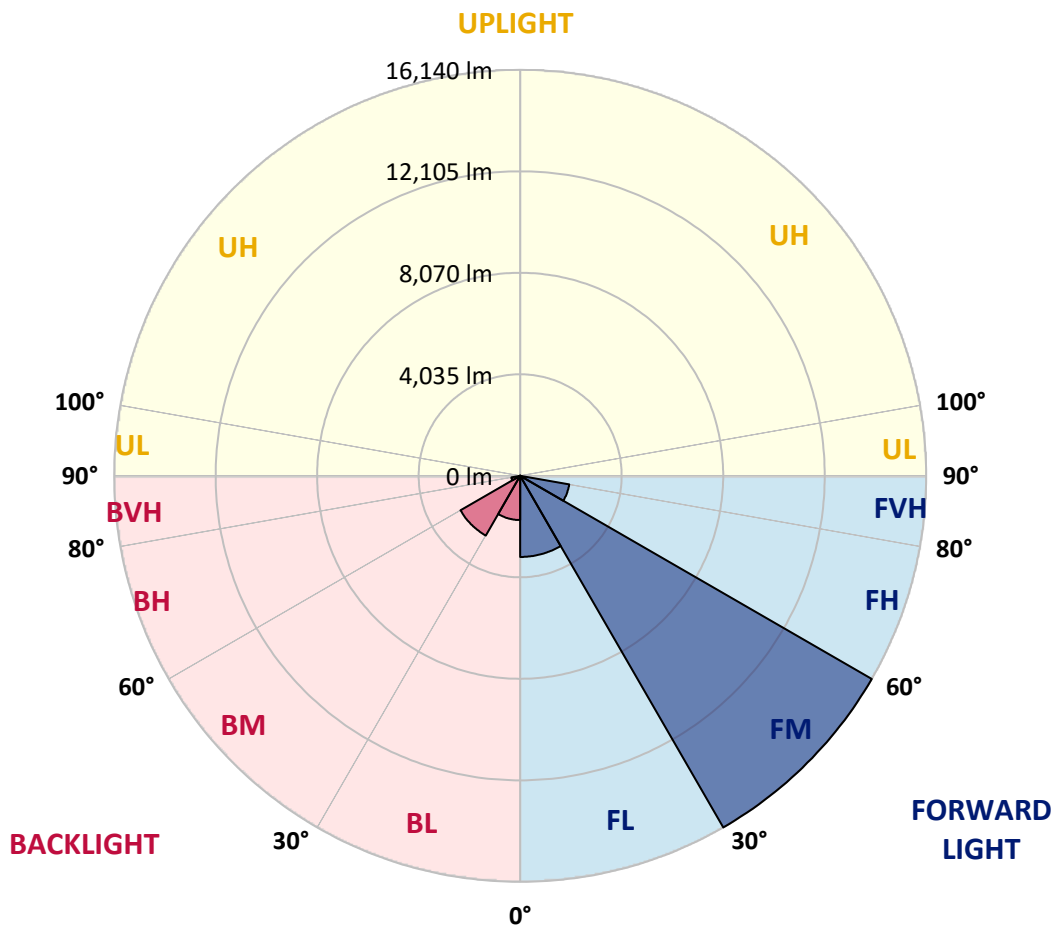
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3225.3	12.3			
FM (30°-60°)	16139.8	61.5			
FH (60°-80°)	1981.6	7.6			G2/5000
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1758.3	6.7	B3/2500		
BM (30°-60°)	2741.3	10.4	B3/5000		
BH (60°-80°)	355.7	1.4	B1/500		G1/500
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5
2.5°	6342.1	6403.1	6412.5	6487.5	6482.9	6609.5	6647.0	6651.7	6736.2	6693.9	6801.8
5°	6163.9	6131.0	6117.0	6248.3	6285.8	6398.4	6492.2	6548.5	6722.1	6783.1	6895.7
7.5°	6004.4	6004.4	6013.8	6131.0	6117.0	6262.4	6360.9	6534.5	6787.8	6839.4	6975.4
10°	5849.6	5793.3	5863.7	5985.6	6088.8	6154.5	6360.9	6525.1	6820.6	6970.7	7158.3
12.5°	5769.8	5798.0	5807.4	5896.5	6009.1	6206.1	6318.7	6590.7	7055.1	7144.3	7346.0
15°	6271.8	6215.5	6079.4	5999.7	6093.5	6187.3	6468.8	6745.5	7177.1	7303.8	7528.9
17.5°	6853.4	6806.5	6693.9	6478.2	6267.1	6440.6	6661.1	6914.4	7308.5	7496.1	7829.2
20°	7613.4	7538.3	7425.7	7003.5	6820.6	6633.0	6867.5	7167.7	7524.2	7693.1	8035.6
22.5°	8518.7	8518.7	8265.4	7754.1	7374.1	7195.9	7294.4	7468.0	7763.5	7993.3	8331.1
25°	9461.6	9433.4	9203.6	8673.5	8030.9	7819.8	7932.4	8054.3	8134.1	8260.7	8485.9
27.5°	10540.5	10376.3	10085.5	9499.1	8931.5	8523.4	8645.4	8537.5	8439.0	8504.6	8828.3
30°	11272.3	11375.5	11004.9	10442.0	9907.2	9452.2	9475.7	9381.8	8931.5	9025.3	9217.7
32.5°	12032.2	12097.9	11891.5	11581.9	11047.1	10517.1	10324.7	10245.0	9907.2	9949.4	9761.8
35°	12665.5	12792.1	12609.2	12473.2	12318.4	11891.5	11361.4	11619.4	11075.3	10972.1	10484.2
37.5°	13247.2	13209.6	13425.4	13284.7	13251.9	12951.6	12370.0	12421.6	12055.7	12032.2	11469.3
40°	13767.9	13777.2	14072.8	14138.4	14007.1	13472.3	12628.0	13036.1	13331.6	13359.8	12637.3
42.5°	14199.4	14326.1	14579.4	15109.5	14912.4	14021.2	12895.3	13341.0	14438.7	14612.2	13744.4
45°	14574.7	14832.7	15147.0	15620.8	15508.2	14799.9	13561.5	13969.6	15620.8	16075.8	14785.8
47.5°	14598.2	14935.9	15278.3	15982.0	16122.7	15217.4	14251.0	14964.0	16559.0	17051.5	15545.7
50°	14504.3	14682.6	15367.5	16132.1	16451.1	15897.5	15217.4	15799.0	17469.0	17778.6	15930.4
52.5°	13392.6	13528.6	14903.1	16272.8	17042.1	16666.9	16498.0	16962.4	18397.8	18627.7	16291.6
55°	11164.4	11140.9	13031.4	15564.5	17314.2	17806.7	17703.5	17867.7	19472.0	19678.4	16380.7
57.5°	7636.8	8063.7	9696.1	12961.0	15648.9	17539.4	17647.3	17375.2	18219.5	18299.3	14279.2
60°	4118.6	4296.9	5610.3	8650.1	11914.9	14293.2	14574.7	14082.2	14016.5	13791.3	10193.4
62.5°	1637.1	1726.3	2472.1	4282.8	6492.2	8687.6	9292.7	9091.0	8659.4	8068.4	5277.3
65°	778.7	835.0	1229.0	2003.0	2880.2	3621.4	4226.5	4414.2	3255.5	2931.8	1740.3
67.5°	530.1	572.3	896.0	1144.6	1027.3	1074.2	1397.9	1299.4	764.6	652.0	483.2
70°	403.4	431.6	717.7	778.7	459.7	323.7	361.2	337.7	314.3	319.0	314.3
72.5°	286.1	309.6	525.4	459.7	201.7	150.1	192.3	229.9	229.9	229.9	225.2
75°	173.6	197.0	304.9	178.3	79.7	79.7	122.0	154.8	164.2	168.9	159.5
77.5°	89.1	112.6	103.2	51.6	51.6	61.0	89.1	107.9	117.3	117.3	112.6
80°	18.8	18.8	18.8	28.1	51.6	65.7	89.1	98.5	112.6	112.6	103.2
82.5°	0.0	4.7	14.1	28.1	46.9	61.0	84.4	98.5	112.6	117.3	107.9
85°	0.0	4.7	9.4	18.8	32.8	37.5	32.8	28.1	28.1	28.1	28.1
87.5°	0.0	0.0	4.7	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5	6745.5
2.5°	6811.2	6825.3	6801.8	6797.1	6778.4	6834.7	6698.6	6665.8	6750.2	6670.5	6689.3
5°	6900.3	6933.2	6891.0	6820.6	6717.4	6557.9	6421.9	6243.6	6159.2	6098.2	6088.8
7.5°	6966.0	6989.5	6947.3	6722.1	6412.5	6009.1	5708.9	5488.4	5314.8	5263.2	5178.8
10°	7233.4	7238.1	7027.0	6529.8	5924.6	5394.6	4934.9	4597.1	4423.5	4315.6	4268.7
12.5°	7411.7	7402.3	6975.4	6149.8	5343.0	4639.3	4113.9	3705.8	3546.3	3494.7	3461.9
15°	7636.8	7585.2	6853.4	5760.5	4592.4	3832.5	3358.7	3077.2	3063.2	3030.3	3063.2
17.5°	7815.1	7669.7	6675.2	5052.1	3874.7	3157.0	2847.4	2866.2	2903.7	2936.5	2941.2
20°	8105.9	7805.7	6267.1	4432.9	3208.6	2706.7	2702.0	2786.4	2880.2	2917.8	2955.3
22.5°	8326.4	7862.0	5830.8	3771.5	2664.4	2523.7	2603.5	2730.1	2800.5	2838.0	2894.3
25°	8406.1	7707.2	5249.1	3110.1	2401.8	2439.3	2561.2	2645.7	2734.8	2777.0	2753.6
27.5°	8485.9	7627.4	4554.9	2561.2	2261.0	2383.0	2486.2	2570.6	2598.8	2655.1	2692.6
30°	8678.2	7350.7	3931.0	2214.1	2190.7	2345.5	2420.5	2448.7	2523.7	2556.6	2556.6
32.5°	8833.0	7242.8	3269.6	2049.9	2181.3	2364.2	2373.6	2373.6	2383.0	2359.5	2350.2
35°	9152.0	6872.2	2678.5	1951.4	2176.6	2368.9	2392.4	2312.6	2096.8	2012.4	1989.0
37.5°	9546.0	6633.0	2242.3	1928.0	2209.4	2425.2	2462.7	2162.5	1881.1	1745.0	1721.6
40°	10024.5	6464.1	1956.1	1918.6	2284.5	2556.6	2444.0	2045.2	1679.4	1482.3	1473.0
42.5°	10582.7	6309.3	1763.8	1913.9	2378.3	2692.6	2425.2	1946.7	1473.0	1341.6	1360.4
45°	11028.4	6224.9	1632.4	1881.1	2411.1	2772.3	2439.3	1773.2	1388.5	1304.1	1313.5
47.5°	11375.5	6046.6	1524.6	1824.8	2406.4	2800.5	2312.6	1702.8	1346.3	1369.7	1393.2
50°	11384.9	5807.4	1388.5	1702.8	2336.1	2748.9	2167.2	1637.1	1336.9	1435.4	1482.3
52.5°	11258.2	5469.6	1243.1	1529.2	2171.9	2570.6	2035.9	1609.0	1294.7	1285.3	1341.6
55°	10807.9	4836.3	999.2	1238.4	1834.2	2120.3	1918.6	1557.4	1168.0	1060.1	1069.5
57.5°	8734.5	3466.6	736.5	886.6	1299.4	1552.7	1731.0	1533.9	1050.8	900.7	905.3
60°	5408.6	1965.5	539.5	605.1	802.1	942.9	1402.6	1426.0	938.2	759.9	750.5
62.5°	2777.0	971.0	417.5	426.9	492.5	553.5	961.6	1196.2	849.1	722.4	722.4
65°	928.8	478.5	365.9	328.4	328.4	342.4	581.7	830.3	717.7	605.1	605.1
67.5°	398.7	356.5	319.0	286.1	262.7	248.6	328.4	483.2	534.8	459.7	440.9
70°	309.6	300.2	276.8	239.2	206.4	187.6	192.3	248.6	304.9	295.5	286.1
72.5°	229.9	229.9	220.5	187.6	159.5	136.0	126.7	131.3	145.4	150.1	154.8
75°	159.5	164.2	164.2	145.4	117.3	98.5	84.4	70.4	56.3	46.9	42.2
77.5°	107.9	112.6	122.0	107.9	89.1	65.7	51.6	37.5	23.5	9.4	9.4
80°	93.8	107.9	117.3	107.9	93.8	70.4	51.6	28.1	14.1	0.0	0.0
82.5°	98.5	107.9	122.0	103.2	89.1	65.7	51.6	32.8	14.1	4.7	0.0
85°	23.5	23.5	28.1	32.8	42.2	46.9	37.5	23.5	14.1	4.7	0.0
87.5°	9.4	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	0.0	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)