

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: P530782

Luminaire Tested: **GALN-SA6A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21372 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

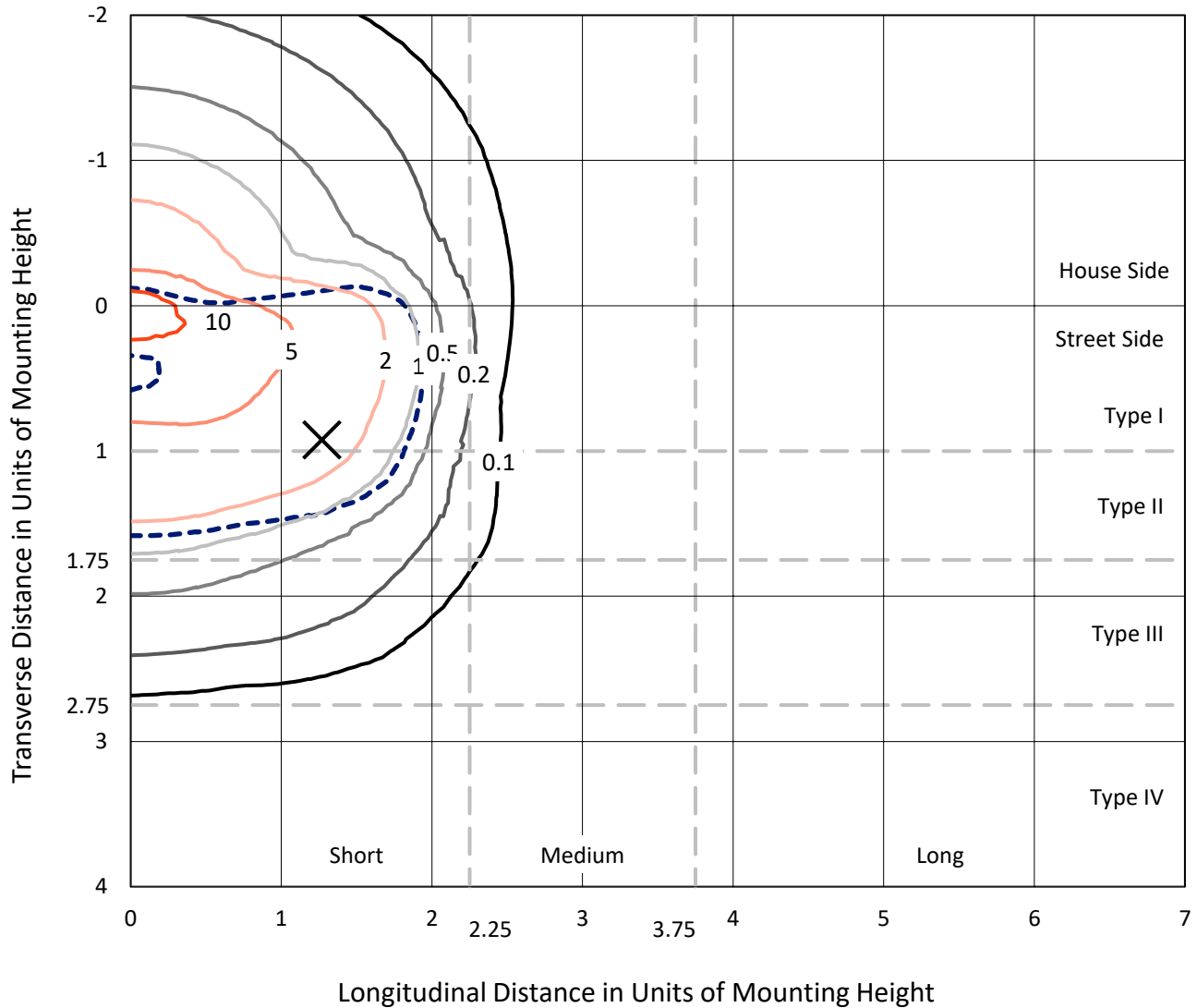
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

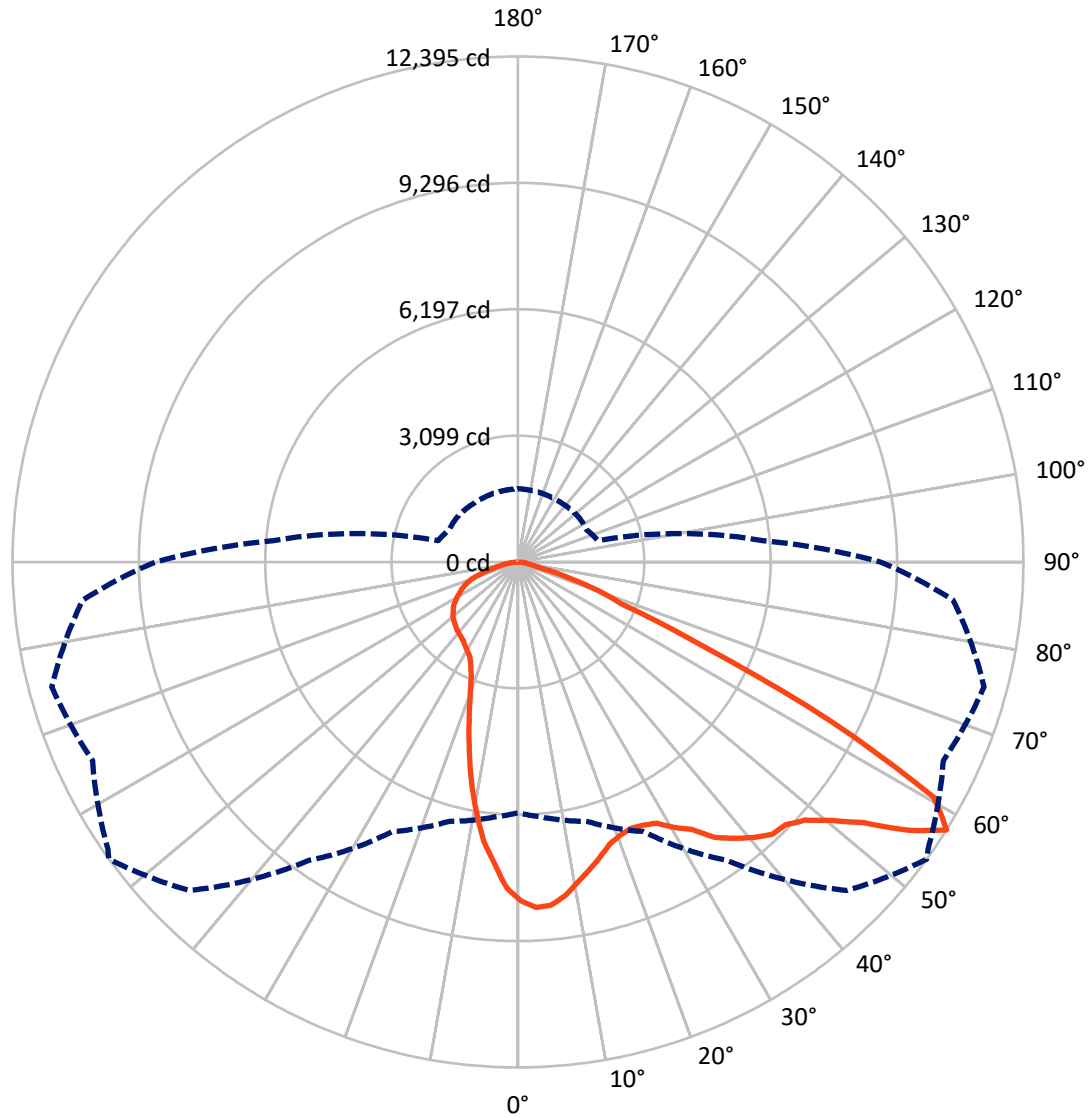
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5912.7	0.0	5912.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	15459.3	0.0	15459.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	21372.0	0.0	21372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.4	3.4
10°-20°	1658.7	7.8
20°-30°	2330.5	10.9
30°-40°	3258.1	15.2
40°-50°	4410.9	20.6
50°-60°	5372.6	25.1
60°-70°	2798.3	13.1
70°-80°	717.0	3.4
80°-90°	109.4	0.5
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°	21372.0	100.0
0°-180°	21372.0	100.0

**Coefficient of Utilization**



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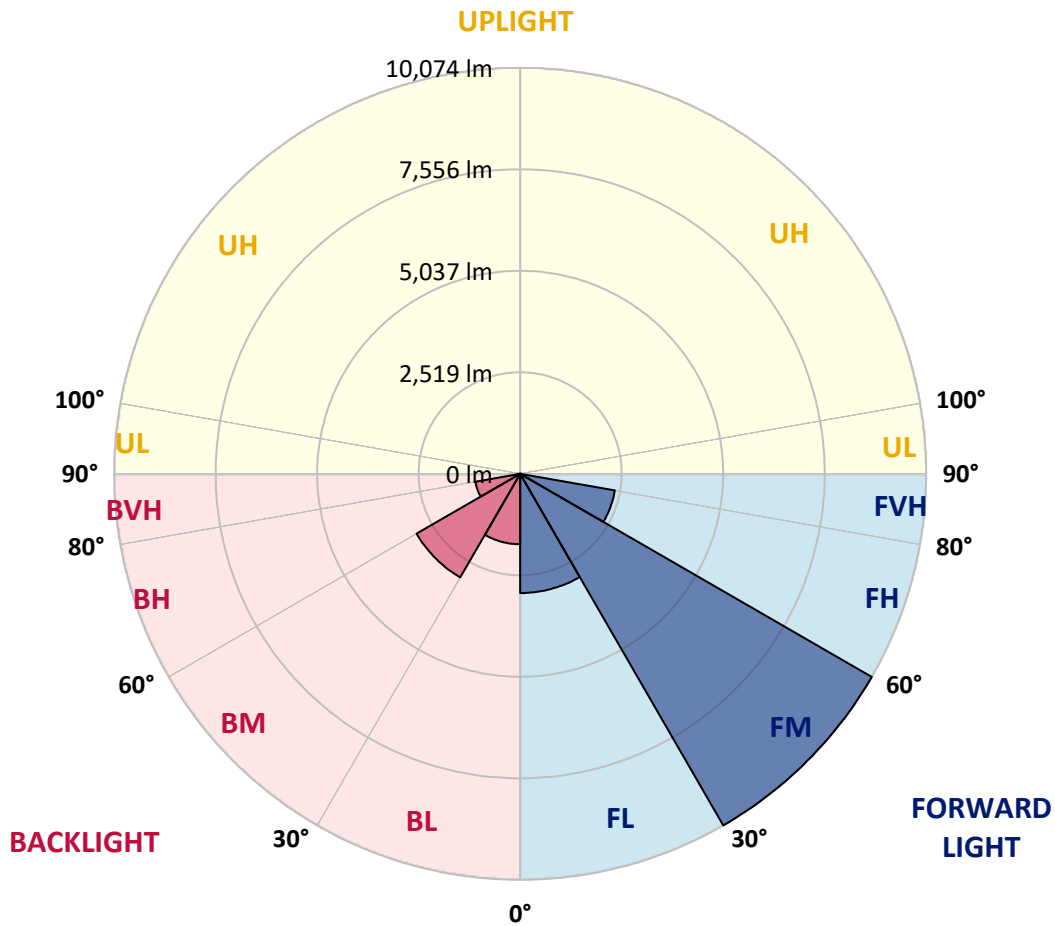
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.2	13.8			
FM (30°-60°)	10074.1	47.1			
FH (60°-80°)	2385.7	11.2			G2/5000
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	1747.5	8.2	B3/2500		
BM (30°-60°)	2967.5	13.9	B3/5000		
BH (60°-80°)	1129.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	68.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1
2.5°	8543.3	8510.3	8515.8	8559.8	8504.8	8482.9	8482.9	8375.7	8384.0	8309.8	8290.6
5°	8345.5	8268.6	8320.8	8386.7	8397.7	8419.7	8455.4	8427.9	8351.0	8271.3	8142.2
7.5°	7829.1	7897.7	7917.0	7963.7	8062.6	8153.2	8265.8	8188.9	8186.2	8106.5	8029.6
10°	7375.8	7334.6	7439.0	7507.7	7672.5	7823.6	7996.6	7988.4	8029.6	7938.9	7807.1
12.5°	6925.3	6892.3	6941.8	7098.4	7329.1	7548.9	7754.9	7678.0	7897.7	7881.3	7598.3
15°	6447.3	6472.0	6543.5	6689.0	6991.2	7254.9	7515.9	7518.7	7713.7	7779.6	7400.5
17.5°	6112.2	6084.7	6175.3	6392.4	6661.6	6977.5	7274.2	7334.6	7634.0	7672.5	7340.1
20°	5862.2	5900.6	6018.8	6128.6	6439.1	6820.9	7156.0	7178.0	7617.5	7721.9	7243.9
22.5°	5801.8	5779.8	5818.2	5996.8	6252.3	6667.1	7092.9	7175.3	7614.8	7705.4	7062.6
25°	5738.6	5810.0	5807.2	5985.8	6172.6	6543.5	7145.1	7235.7	7760.4	7790.6	7087.4
27.5°	5881.4	5873.2	5950.1	5963.8	6194.6	6576.4	7254.9	7323.6	8002.1	7977.4	7106.6
30°	6024.3	5983.1	6029.8	6191.8	6299.0	6766.0	7557.1	7551.6	8315.3	8298.8	7167.0
32.5°	6200.1	6180.8	6211.1	6353.9	6535.2	7018.7	7812.6	7974.7	8633.9	8738.3	7375.8
35°	6233.0	6312.7	6384.1	6576.4	6834.6	7428.0	8293.3	8427.9	9002.1	9329.0	7774.1
37.5°	6441.8	6472.0	6639.6	6980.2	7216.5	7974.7	8598.2	8683.4	9337.2	9708.0	8194.4
40°	6664.3	6700.0	6952.8	7309.9	7634.0	8331.8	8883.9	8911.4	9444.3	9999.2	8469.1
42.5°	6966.5	6999.5	7249.4	7697.2	8131.2	8636.7	9136.7	9166.9	9436.1	10334.4	8905.9
45°	7279.7	7359.3	7653.3	8161.5	8551.5	8993.8	9194.3	9318.0	9513.0	10633.8	9260.3
47.5°	7719.2	7793.4	8035.1	8532.3	8988.3	9307.0	9460.8	9581.7	9697.1	10894.8	9488.3
50°	8186.2	8199.9	8493.9	8944.4	9279.5	9661.3	9958.0	9999.2	9938.8	11196.9	9875.6
52.5°	8529.6	8573.5	8801.5	9241.0	9741.0	10210.8	10617.3	10661.3	10543.1	11309.6	10007.5
55°	7960.9	7936.2	8307.1	8892.2	10051.4	11029.4	11620.0	11652.9	10982.7	11658.4	10438.8
57.5°	6153.4	6271.5	6587.4	7293.4	8930.6	11392.0	12394.6	12276.5	11510.1	11834.3	10713.5
60°	4472.2	4444.7	4656.2	5128.7	6730.3	9817.9	11718.9	11839.7	11078.8	10666.8	8834.5
62.5°	3642.6	3604.1	3620.6	3637.1	4343.1	6516.0	8675.2	8672.4	8532.3	7667.0	5958.3
65°	2911.9	3002.5	3010.8	3134.4	3225.0	3892.6	5027.1	5296.3	4612.3	3782.7	2744.3
67.5°	2194.9	2161.9	2271.8	2711.3	2881.6	2810.2	2744.3	2774.5	1972.4	1423.0	1340.6
70°	1293.9	1280.1	1412.0	1890.0	2373.4	2233.3	2068.5	2071.3	1354.3	994.4	1107.1
72.5°	708.7	706.0	733.5	958.7	1348.8	1401.0	1241.7	1280.1	807.6	804.9	865.3
75°	395.6	387.3	379.1	423.0	486.2	513.7	524.7	530.2	554.9	620.8	645.6
77.5°	145.6	140.1	140.1	162.1	206.0	258.2	326.9	332.4	392.8	450.5	475.2
80°	49.4	54.9	74.2	101.6	137.4	184.1	222.5	228.0	277.5	315.9	324.2
82.5°	30.2	33.0	49.4	71.4	98.9	129.1	164.8	167.6	206.0	230.8	241.7
85°	13.7	16.5	27.5	44.0	63.2	85.2	87.9	87.9	85.2	87.9	82.4
87.5°	0.0	0.0	5.5	5.5	5.5	8.2	11.0	8.2	13.7	16.5	16.5
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°	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1	8307.1
2.5°	8232.9	8202.7	8109.3	8026.9	8002.1	7892.2	7730.2	7749.4	7631.3	7686.2	7628.5
5°	8120.3	8018.6	7779.6	7678.0	7411.5	7290.6	7208.2	7002.2	6906.1	6886.8	6804.4
7.5°	7831.8	7768.6	7469.2	7194.5	6911.6	6669.8	6359.4	6147.9	5996.8	5955.6	5834.7
10°	7603.8	7463.7	7048.9	6631.4	6227.5	5807.2	5403.4	5087.5	4933.7	4755.1	4694.7
12.5°	7378.6	7167.0	6606.6	6071.0	5549.0	5018.8	4529.9	4145.3	3810.1	3730.5	3703.0
15°	7238.5	6870.3	6211.1	5565.5	4823.8	4131.5	3642.6	3389.8	3183.8	3098.7	3159.1
17.5°	7054.4	6625.9	5832.0	4972.1	4156.3	3519.0	3109.7	2953.1	2878.9	2887.1	2862.4
20°	6823.6	6395.1	5334.8	4433.7	3560.2	3052.0	2818.5	2760.8	2771.8	2791.0	2782.8
22.5°	6658.8	6114.9	4974.9	3884.3	3076.7	2793.7	2697.6	2656.4	2692.1	2708.6	2694.8
25°	6532.5	5875.9	4538.1	3398.1	2796.5	2648.1	2604.2	2601.4	2656.4	2678.4	2664.6
27.5°	6417.1	5653.4	4104.1	3027.2	2609.7	2535.5	2521.8	2554.7	2590.5	2612.4	2631.7
30°	6348.4	5483.1	3697.5	2716.8	2516.3	2480.6	2455.9	2486.1	2505.3	2527.3	2516.3
32.5°	6414.3	5362.2	3304.7	2541.0	2439.4	2403.7	2436.6	2417.4	2450.4	2469.6	2439.4
35°	6620.4	5255.1	3024.5	2447.6	2351.5	2365.2	2370.7	2362.5	2376.2	2359.7	2395.4
37.5°	6823.6	5216.6	2766.3	2367.9	2310.3	2310.3	2304.8	2288.3	2315.8	2310.3	2326.7
40°	7081.9	5241.4	2546.5	2282.8	2271.8	2266.3	2244.3	2241.6	2230.6	2233.3	2238.8
42.5°	7307.1	5296.3	2420.1	2227.9	2236.1	2247.1	2205.9	2172.9	2186.6	2159.2	2159.2
45°	7546.1	5345.7	2307.5	2189.4	2181.2	2178.4	2145.4	2126.2	2115.2	2118.0	2142.7
47.5°	7922.5	5417.2	2222.4	2137.2	2142.7	2101.5	2093.2	2068.5	2079.5	2096.0	2098.7
50°	8188.9	5568.3	2156.4	2076.8	2096.0	2068.5	2019.1	2008.1	2008.1	2035.6	2030.1
52.5°	8375.7	5779.8	2093.2	2010.8	2019.1	1997.1	1980.6	1955.9	1939.4	1977.9	1997.1
55°	8947.1	6131.4	2076.8	1955.9	1953.1	1931.2	1901.0	1876.2	1868.0	1873.5	1911.9
57.5°	8892.2	6021.5	2024.6	1859.7	1854.3	1824.0	1793.8	1785.6	1782.8	1788.3	1799.3
60°	7219.2	4447.5	1807.6	1749.9	1741.6	1736.1	1705.9	1672.9	1656.5	1672.9	1659.2
62.5°	4777.1	2977.8	1593.3	1618.0	1623.5	1609.8	1560.3	1527.4	1532.8	1552.1	1521.9
65°	2346.0	1749.9	1444.9	1510.9	1516.4	1477.9	1431.2	1392.7	1373.5	1390.0	1376.3
67.5°	1340.6	1337.8	1324.1	1392.7	1390.0	1351.5	1277.4	1244.4	1211.4	1216.9	1208.7
70°	1137.3	1159.3	1186.7	1227.9	1225.2	1181.2	1093.3	1068.6	1021.9	1016.4	1002.7
72.5°	895.5	934.0	994.4	1024.6	999.9	945.0	887.3	846.1	804.9	780.2	788.4
75°	664.8	719.7	752.7	771.9	733.5	703.2	656.5	607.1	557.6	535.7	527.4
77.5°	483.5	500.0	530.2	543.9	519.2	489.0	461.5	412.1	365.4	335.1	326.9
80°	337.9	348.9	370.9	370.9	370.9	357.1	321.4	272.0	241.7	214.3	208.8
82.5°	236.2	247.2	269.2	258.2	255.5	239.0	217.0	178.6	145.6	126.4	120.9
85°	82.4	90.7	109.9	131.9	140.1	137.4	123.6	98.9	76.9	63.2	57.7
87.5°	19.2	19.2	22.0	19.2	19.2	22.0	19.2	19.2	19.2	13.7	11.0
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)