

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: P529714

Luminaire Tested: **GALN-SA4D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19068 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

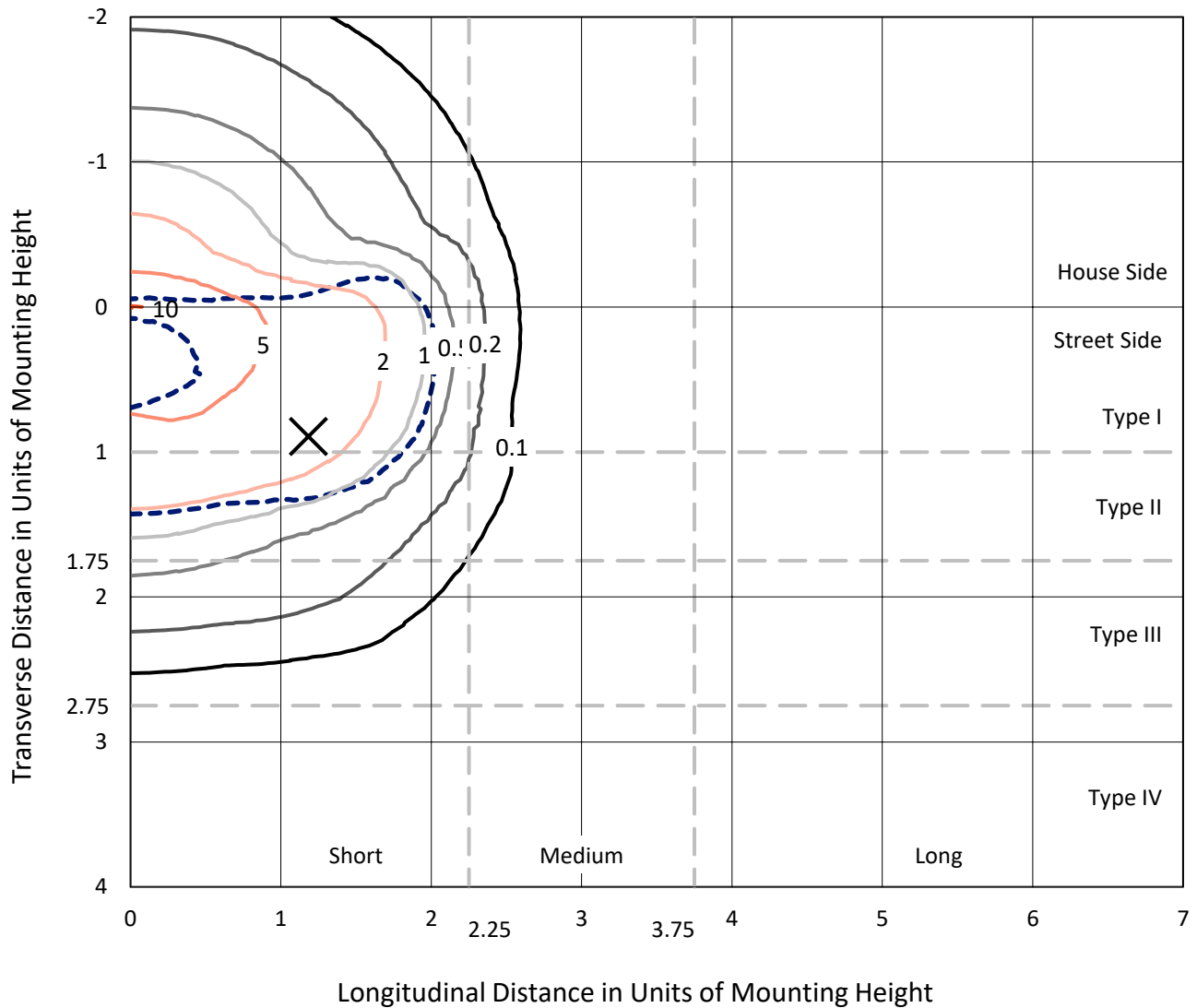
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

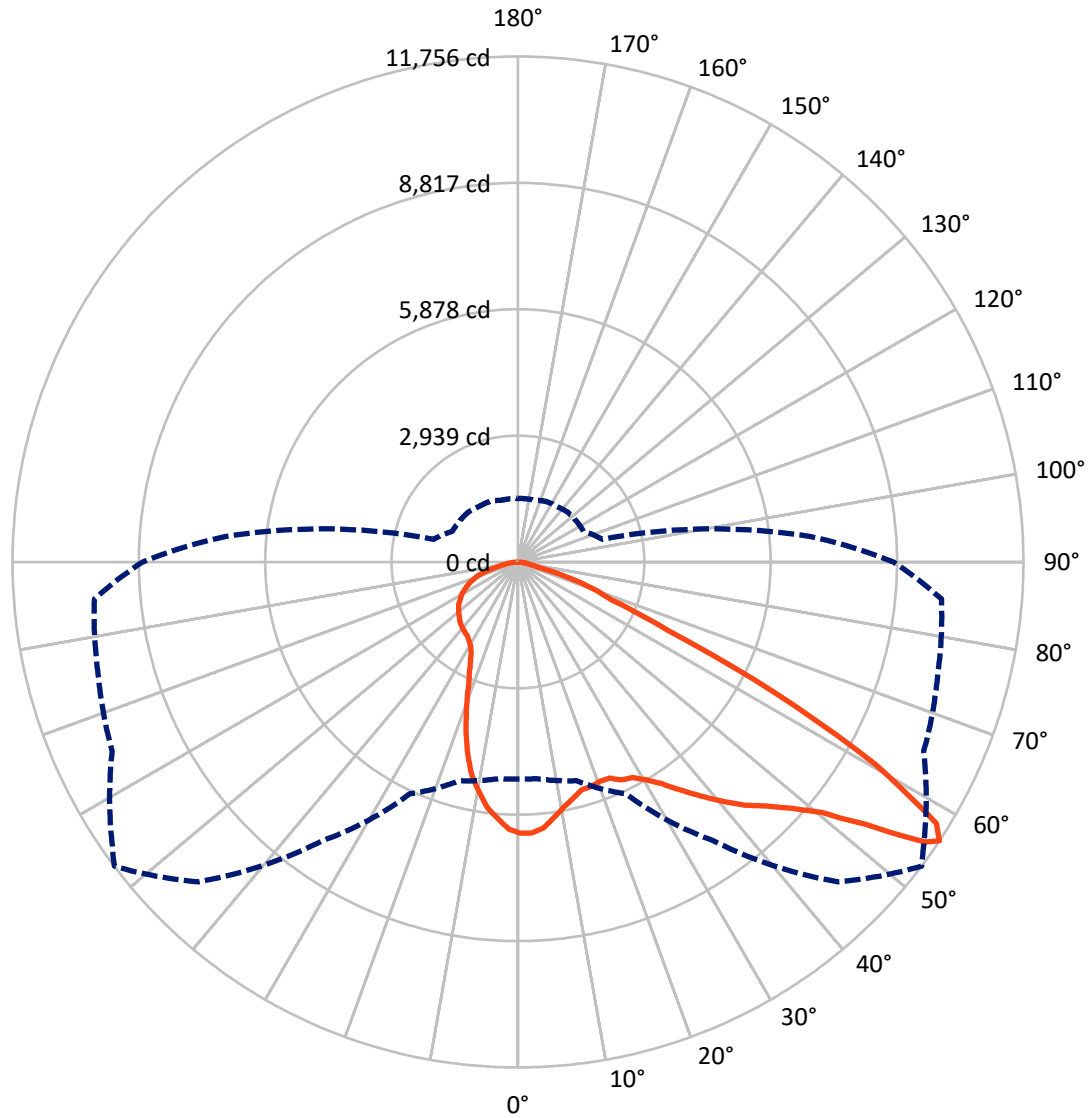
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5564.5	0.0	5564.5
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	13503.5	0.0	13503.5
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	19068.0	0.0	19068.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.5	2.9
10°-20°	1394.8	7.3
20°-30°	2056.8	10.8
30°-40°	2938.8	15.4
40°-50°	4044.8	21.2
50°-60°	4779.9	25.1
60°-70°	2547.4	13.4
70°-80°	646.3	3.4
80°-90°	100.8	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°	19068.0	100.0
0°-180°	19068.0	100.0

**Coefficient of Utilization**



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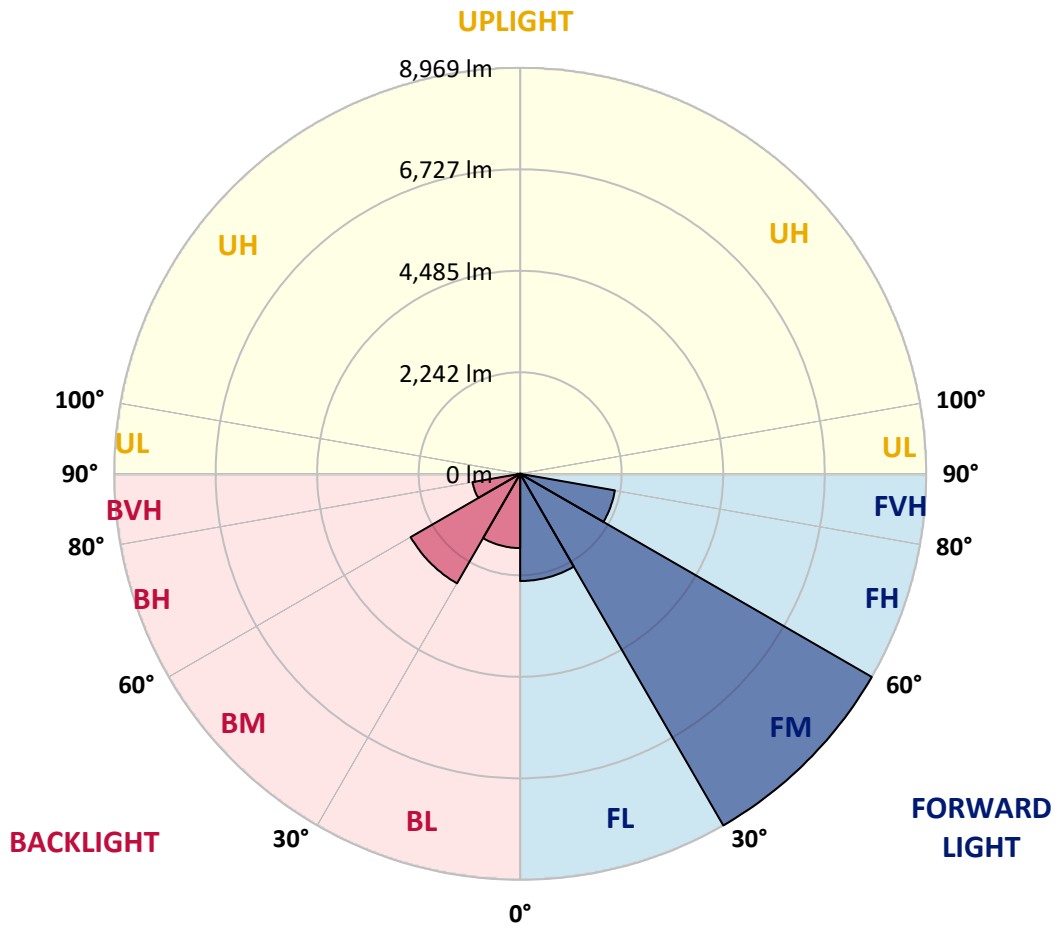
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.9	12.4			
FM (30°-60°)	8969.2	47.0			
FH (60°-80°)	2124.9	11.1			G2/5000
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	1641.2	8.6	B3/2500		
BM (30°-60°)	2794.3	14.7	B3/5000		
BH (60°-80°)	1068.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	60.3	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°	53°	55°	65°	75°	85°
0°	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4
2.5°	6230.2	6176.4	6208.2	6195.9	6296.2	6325.6	6310.9	6323.1	6379.4	6352.5	6296.2
5°	5821.7	5897.5	5912.2	5948.9	6007.6	6122.5	6213.0	6237.5	6264.4	6389.2	6376.9
7.5°	5449.9	5501.2	5474.3	5582.0	5709.2	5895.1	6005.1	6024.7	6271.8	6340.2	6391.6
10°	5215.0	5163.7	5286.0	5315.3	5459.7	5672.5	5804.6	5885.3	6110.3	6381.8	6413.6
12.5°	4997.3	4980.2	5053.6	5136.8	5298.2	5518.4	5652.9	5684.7	6032.0	6318.2	6467.4
15°	4835.9	4816.3	4889.7	4950.9	5139.2	5334.9	5506.1	5596.6	5946.4	6281.5	6421.0
17.5°	4708.7	4706.3	4747.8	4857.9	5051.2	5215.0	5491.5	5496.3	5902.4	6337.8	6460.1
20°	4701.4	4698.9	4706.3	4828.6	5004.7	5205.3	5445.0	5489.0	5902.4	6298.7	6462.5
22.5°	4762.5	4723.4	4767.4	4845.7	4972.9	5222.4	5462.1	5559.9	6044.3	6491.9	6572.6
25°	4860.4	4870.1	4894.6	4921.5	4994.9	5261.5	5613.8	5694.5	6210.6	6658.2	6724.3
27.5°	5038.9	5034.0	5043.8	5058.5	5122.1	5298.2	5674.9	5882.8	6557.9	6954.2	6888.2
30°	5300.7	5283.5	5322.7	5374.0	5315.3	5415.6	5877.9	6034.5	6880.8	7252.6	7071.6
32.5°	5537.9	5601.5	5674.9	5696.9	5626.0	5645.6	6147.0	6306.0	7149.9	7619.5	7296.7
35°	5833.9	5885.3	5983.1	6051.6	6039.4	5980.7	6513.9	6724.3	7538.8	7888.6	7533.9
37.5°	6122.5	6183.7	6345.1	6548.2	6435.6	6408.7	6905.3	7079.0	7658.7	8032.9	7707.6
40°	6587.3	6584.9	6863.7	6968.9	7069.2	7022.7	7311.3	7370.0	7722.3	8001.1	7712.5
42.5°	7132.8	7098.5	7382.3	7546.2	7675.8	7680.7	7734.5	7714.9	7751.6	7839.7	7661.1
45°	7651.3	7724.7	8010.9	8304.4	8434.1	8448.8	8091.6	8054.9	7803.0	7793.2	7563.3
47.5°	8284.9	8302.0	8536.8	8923.3	9224.2	9121.4	8553.9	8473.2	8028.0	8103.9	7727.2
50°	8321.6	8448.8	8659.1	9114.1	10038.7	10011.8	9153.2	9001.6	8390.1	8544.2	8184.6
52.5°	7553.5	7524.1	7773.6	8517.3	9977.6	10897.3	10146.3	9784.3	9167.9	9050.5	8925.8
55°	5755.6	5824.1	6044.3	6795.2	8664.0	10909.5	11499.0	11203.1	9999.6	9799.0	9654.7
56°	5048.7	5058.5	5266.4	5951.3	7905.7	10520.6	11755.9	11516.2	10413.0	10107.2	9887.1
57.5°	4185.2	4129.0	4236.6	4610.9	6672.9	9698.7	11474.6	11709.4	10897.3	10439.9	10134.1
60°	3294.9	3282.6	3238.6	3307.1	4217.0	7306.4	9552.0	10080.3	10848.4	10126.8	9706.1
62.5°	2690.7	2629.5	2717.6	2815.4	2930.4	4532.6	6712.0	7022.7	8612.7	8084.3	7291.8
65°	2086.5	2057.2	2167.2	2485.2	2553.7	2879.0	3823.2	4062.9	5085.4	4994.9	4398.1
67.5°	1435.9	1440.7	1536.1	2020.5	2367.8	2338.5	2340.9	2465.7	2654.0	1971.5	1717.1
70°	909.9	907.5	958.9	1301.3	1905.5	1925.1	1827.2	1790.5	1697.6	1027.4	1088.5
72.5°	584.6	567.5	594.4	719.1	985.8	1139.9	1174.1	1196.1	983.3	807.2	875.7
75°	330.2	313.1	303.3	335.1	388.9	450.1	494.1	508.8	569.9	611.5	648.2
77.5°	100.3	90.5	110.1	146.8	193.2	259.3	315.5	325.3	384.0	433.0	469.6
80°	44.0	48.9	68.5	97.8	137.0	183.5	222.6	237.3	276.4	313.1	322.9
82.5°	26.9	29.4	46.5	66.0	95.4	129.6	159.0	163.9	203.0	232.4	239.7
85°	9.8	12.2	24.5	39.1	61.2	83.2	83.2	90.5	83.2	83.2	90.5
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	9.8	9.8	12.2	14.7	17.1
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°	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4	6308.4
2.5°	6325.6	6313.3	6293.8	6222.8	6215.5	6193.5	6071.2	6051.6	6071.2	6012.5	6017.4
5°	6313.3	6350.0	6203.3	6132.3	6000.2	5904.8	5794.8	5738.5	5638.2	5574.6	5645.6
7.5°	6367.2	6352.5	6169.0	6014.9	5816.8	5574.6	5381.4	5271.3	5095.2	5046.3	5083.0
10°	6347.6	6269.3	6054.1	5851.0	5476.8	5264.0	4950.9	4647.6	4481.2	4395.6	4383.4
12.5°	6320.7	6298.7	5939.1	5589.3	5195.5	4747.8	4307.6	4021.4	3749.8	3632.4	3649.6
15°	6352.5	6166.6	5723.8	5281.1	4757.6	4170.6	3696.0	3326.7	3138.3	3062.5	3062.5
17.5°	6337.8	6103.0	5621.1	4936.2	4273.3	3578.6	3057.6	2835.0	2756.7	2756.7	2778.7
20°	6345.1	6144.6	5413.2	4591.3	3700.9	3013.6	2634.4	2553.7	2588.0	2600.2	2612.4
22.5°	6386.7	6007.6	5210.2	4212.2	3170.1	2578.2	2392.3	2394.7	2455.9	2521.9	2509.7
25°	6438.1	5953.8	4963.1	3835.5	2764.1	2365.4	2306.7	2299.3	2345.8	2380.0	2384.9
27.5°	6394.1	5860.8	4711.2	3365.8	2431.4	2223.5	2211.3	2216.2	2230.8	2299.3	2277.3
30°	6538.4	5887.7	4395.6	2972.0	2247.9	2177.0	2162.3	2155.0	2177.0	2196.6	2179.5
32.5°	6716.9	5792.3	4160.8	2592.8	2157.4	2142.8	2113.4	2103.6	2115.9	2096.3	2106.1
35°	6795.2	5775.2	3855.0	2321.3	2086.5	2074.3	2057.2	2054.7	2057.2	2040.0	2025.4
37.5°	6839.2	5855.9	3505.2	2196.6	2042.5	2054.7	2015.6	2010.7	1966.7	1976.4	1983.8
40°	6915.1	5731.2	3221.5	2076.7	2015.6	1991.1	1956.9	1949.5	1920.2	1903.1	1920.2
42.5°	6805.0	5694.5	2942.6	2025.4	1976.4	1949.5	1925.1	1883.5	1873.7	1859.0	1849.2
45°	6716.9	5484.1	2693.1	1961.8	1930.0	1915.3	1868.8	1824.8	1788.1	1802.8	1780.7
47.5°	6783.0	5410.7	2446.1	1907.9	1866.4	1849.2	1802.8	1768.5	1731.8	1714.7	1709.8
50°	7047.2	5547.7	2238.2	1868.8	1812.5	1802.8	1741.6	1702.5	1668.2	1656.0	1660.9
52.5°	7678.3	5922.0	2096.3	1788.1	1761.2	1717.1	1682.9	1634.0	1612.0	1572.8	1597.3
55°	8478.1	6531.0	2059.6	1712.3	1697.6	1658.4	1612.0	1575.3	1533.7	1501.9	1494.6
56°	8735.0	6822.1	2030.2	1682.9	1658.4	1636.4	1575.3	1553.3	1487.2	1479.9	1475.0
57.5°	8942.9	7079.0	2035.1	1626.6	1602.2	1582.6	1545.9	1492.1	1448.1	1421.2	1433.4
60°	8473.2	6626.4	1942.2	1541.0	1536.1	1499.4	1448.1	1423.6	1369.8	1338.0	1330.7
62.5°	6298.7	4498.3	1575.3	1431.0	1428.5	1389.4	1330.7	1303.8	1294.0	1249.9	1249.9
65°	3627.5	2820.3	1362.5	1340.5	1320.9	1281.7	1223.0	1201.0	1176.6	1161.9	1149.7
67.5°	1548.4	1462.8	1237.7	1235.3	1213.3	1164.3	1105.6	1071.4	1039.6	1010.2	1024.9
70°	1122.8	1139.9	1117.9	1105.6	1078.7	1017.6	966.2	924.6	875.7	856.1	870.8
72.5°	890.4	927.1	958.9	961.3	929.5	858.6	802.3	746.1	692.2	665.3	677.6
75°	675.1	699.6	731.4	738.7	692.2	643.3	589.5	530.8	489.2	457.4	462.3
77.5°	486.8	481.9	511.2	506.3	484.3	450.1	401.2	347.3	300.9	271.5	274.0
80°	332.7	340.0	357.1	354.7	327.8	305.8	269.1	225.0	190.8	166.3	161.4
82.5°	232.4	244.6	259.3	247.1	225.0	203.0	176.1	144.3	117.4	97.8	93.0
85°	83.2	95.4	110.1	117.4	124.8	119.9	100.3	80.7	58.7	48.9	46.5
87.5°	17.1	19.6	22.0	22.0	22.0	19.6	17.1	17.1	14.7	7.3	7.3
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)