

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: P531820

Luminaire Tested: **GALN-SA7A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531820  
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-SA7A-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 19847 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

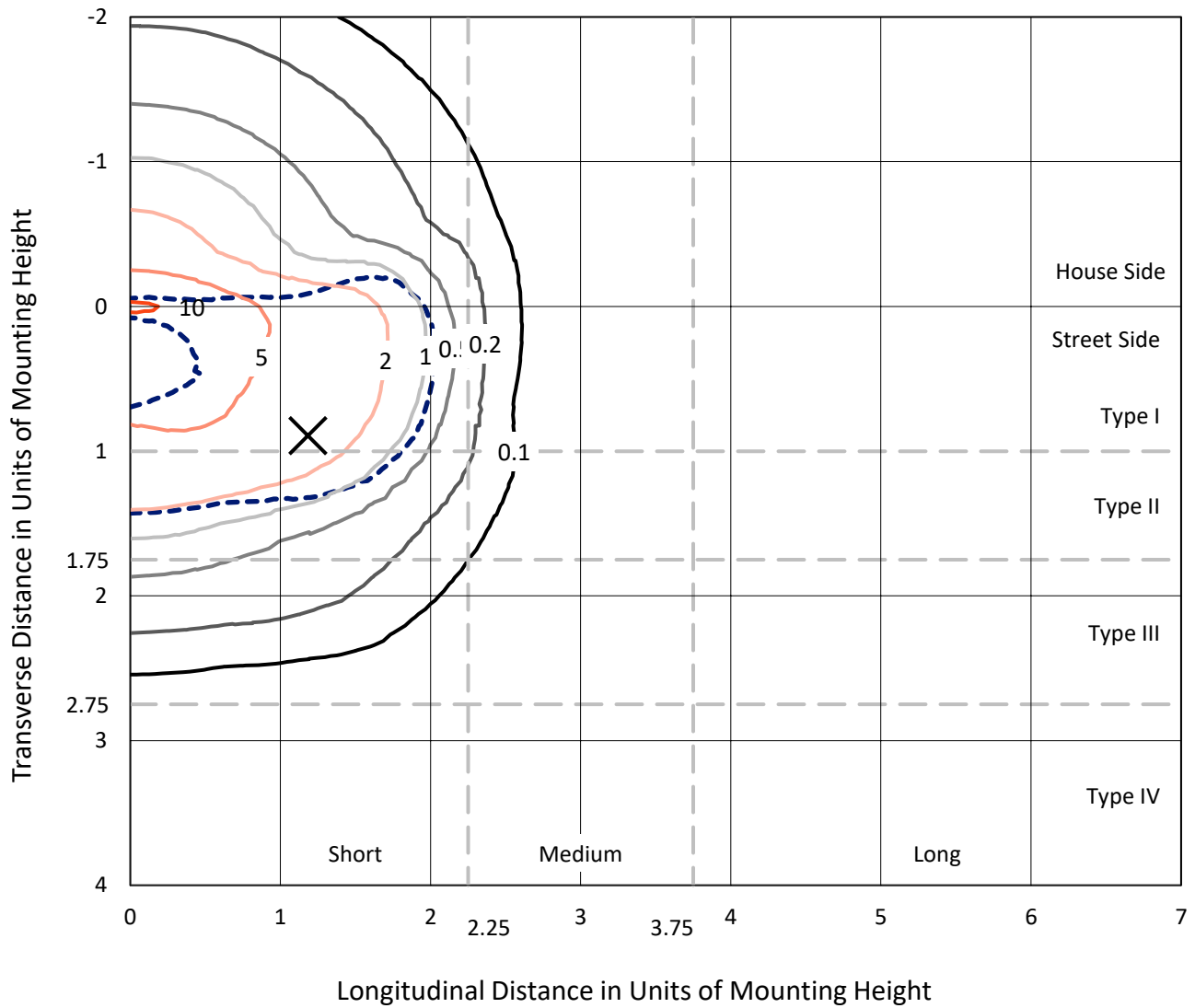
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

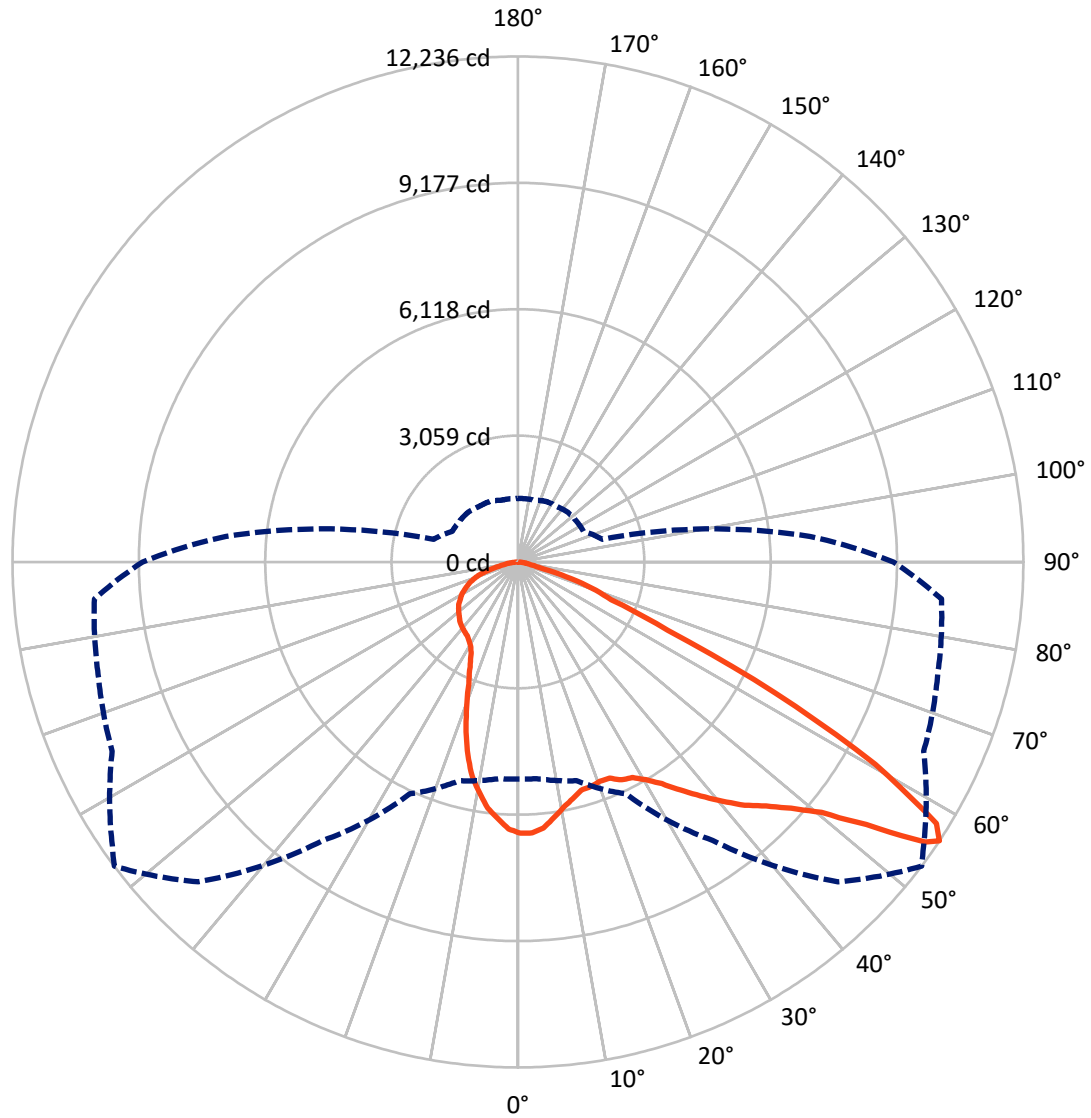
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	5791.8	0.0	5791.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	14055.2	0.0	14055.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	19847.0	0.0	19847.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.3	2.9
10°-20°	1451.8	7.3
20°-30°	2140.8	10.8
30°-40°	3058.8	15.4
40°-50°	4210.1	21.2
50°-60°	4975.2	25.1
60°-70°	2651.4	13.4
70°-80°	672.7	3.4
80°-90°	104.9	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°	19847.0	100.0
0°-180°	19847.0	100.0

**Coefficient of Utilization**



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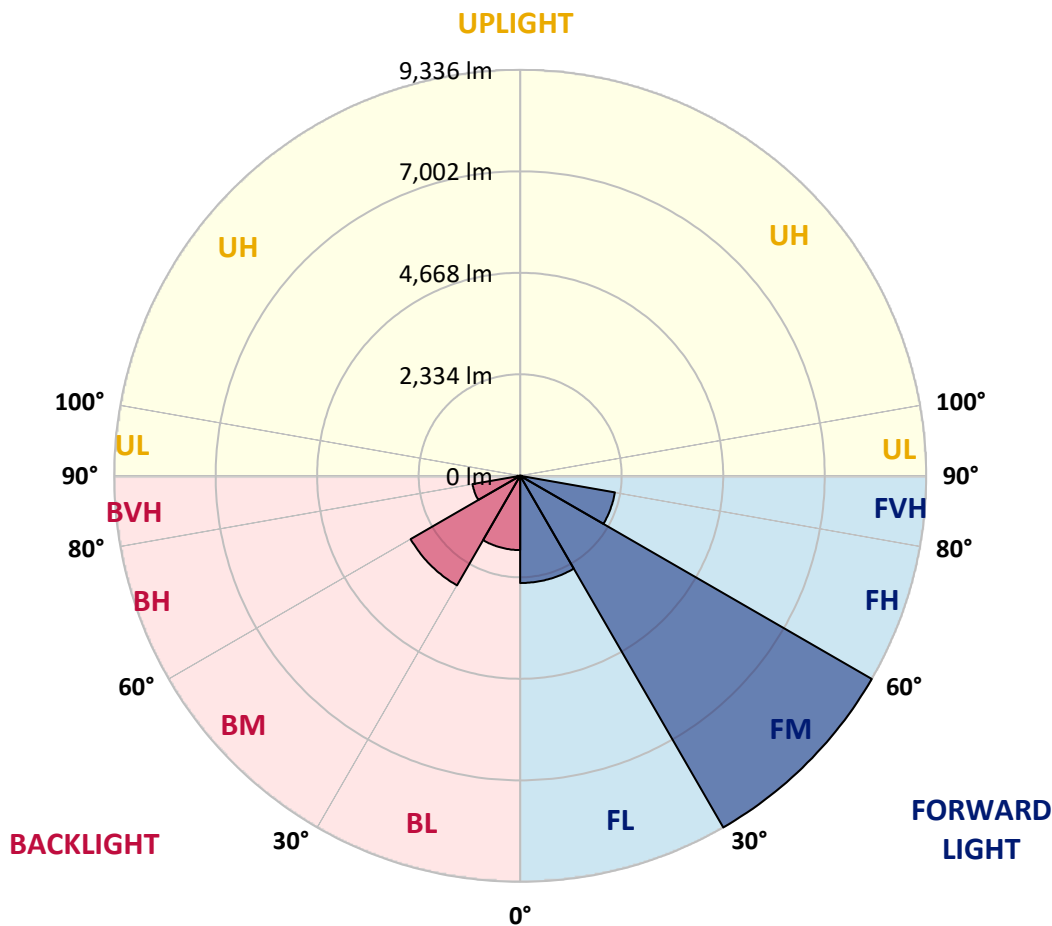
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.7	12.4			
FM (30°-60°)	9335.6	47.0			
FH (60°-80°)	2211.7	11.1			G2/5000
FVH (80°-90°)	42.2	0.2			G1/100
BL (0°-30°)	1708.2	8.6	B3/2500		
BM (30°-60°)	2908.4	14.7	B3/5000		
BH (60°-80°)	1112.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	62.7	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°	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2
2.5°	6484.7	6428.7	6461.8	6449.1	6553.4	6584.0	6568.7	6581.4	6640.0	6612.0	6553.4
5°	6059.5	6138.4	6153.7	6191.9	6253.0	6372.7	6466.9	6492.3	6520.3	6650.2	6637.5
7.5°	5672.5	5726.0	5698.0	5810.0	5942.4	6135.9	6250.5	6270.8	6528.0	6599.3	6652.7
10°	5428.1	5374.6	5501.9	5532.5	5682.7	5904.2	6041.7	6125.7	6359.9	6642.6	6675.6
12.5°	5201.5	5183.7	5260.1	5346.6	5514.7	5743.8	5883.8	5916.9	6278.5	6576.4	6731.7
15°	5033.5	5013.1	5089.5	5153.1	5349.2	5552.9	5731.1	5825.3	6189.4	6538.2	6683.3
17.5°	4901.1	4898.5	4941.8	5056.4	5257.5	5428.1	5715.8	5720.9	6143.5	6596.7	6724.0
20°	4893.4	4890.9	4898.5	5025.8	5209.1	5417.9	5667.4	5713.3	6143.5	6556.0	6726.6
22.5°	4957.1	4916.4	4962.2	5043.7	5176.0	5435.7	5685.2	5787.1	6291.2	6757.1	6841.1
25°	5058.9	5069.1	5094.6	5122.6	5199.0	5476.5	5843.1	5927.1	6464.3	6930.2	6999.0
27.5°	5244.8	5239.7	5249.9	5265.2	5331.4	5514.7	5906.8	6123.2	6825.9	7238.3	7169.6
30°	5517.2	5499.4	5540.1	5593.6	5532.5	5636.9	6118.1	6281.0	7161.9	7548.9	7360.5
32.5°	5764.2	5830.4	5906.8	5929.7	5855.8	5876.2	6398.1	6563.6	7442.0	7930.8	7594.8
35°	6072.2	6125.7	6227.5	6298.8	6286.1	6225.0	6780.0	6999.0	7846.8	8210.9	7841.7
37.5°	6372.7	6436.3	6604.4	6815.7	6698.6	6670.6	7187.4	7368.2	7971.6	8361.1	8022.5
40°	6856.4	6853.9	7144.1	7253.6	7358.0	7309.6	7610.0	7671.1	8037.8	8328.0	8027.6
42.5°	7424.2	7388.5	7683.9	7854.5	7989.4	7994.5	8050.5	8030.1	8068.3	8160.0	7974.1
45°	7963.9	8040.3	8338.2	8643.7	8778.7	8793.9	8422.2	8384.0	8121.8	8111.6	7872.3
47.5°	8623.3	8641.2	8885.6	9287.9	9601.0	9494.1	8903.4	8819.4	8356.0	8434.9	8042.9
50°	8661.5	8793.9	9012.9	9486.4	10448.8	10420.8	9527.2	9369.3	8732.8	8893.2	8519.0
52.5°	7862.1	7831.5	8091.2	8865.2	10385.2	11342.5	10560.9	10184.1	9542.5	9420.3	9290.4
55°	5990.8	6062.1	6291.2	7072.8	9018.0	11355.2	11968.8	11660.7	10408.1	10199.3	10049.1
56°	5255.0	5265.2	5481.6	6194.5	8228.7	10950.4	12236.1	11986.6	10838.4	10520.1	10291.0
57.5°	4356.2	4297.7	4409.7	4799.2	6945.5	10094.9	11943.4	12187.8	11342.5	10866.4	10548.1
60°	3429.5	3416.8	3370.9	3442.2	4389.3	7604.9	9942.2	10492.1	11291.6	10540.5	10102.6
62.5°	2800.6	2737.0	2828.6	2930.5	3050.1	4717.8	6986.3	7309.6	8964.5	8414.6	7589.7
65°	2171.7	2141.2	2255.8	2586.8	2658.0	2996.7	3979.4	4228.9	5293.2	5199.0	4577.7
67.5°	1494.5	1499.6	1598.9	2103.0	2464.5	2434.0	2436.5	2566.4	2762.4	2052.1	1787.3
70°	947.1	944.6	998.0	1354.5	1983.3	2003.7	1901.9	1863.7	1766.9	1069.3	1133.0
72.5°	608.5	590.7	618.7	748.5	1026.0	1186.4	1222.1	1245.0	1023.5	840.2	911.5
75°	343.7	325.9	315.7	348.8	404.8	468.5	514.3	529.6	593.2	636.5	674.7
77.5°	104.4	94.2	114.6	152.8	201.1	269.9	328.4	338.6	399.7	450.6	488.8
80°	45.8	50.9	71.3	101.8	142.6	191.0	231.7	247.0	287.7	325.9	336.1
82.5°	28.0	30.6	48.4	68.7	99.3	134.9	165.5	170.6	211.3	241.9	249.5
85°	10.2	12.7	25.5	40.7	63.7	86.6	86.6	94.2	86.6	86.6	94.2
87.5°	0.0	0.0	2.5	5.1	5.1	7.6	10.2	10.2	12.7	15.3	17.8
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°	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2	6566.2
2.5°	6584.0	6571.3	6550.9	6477.1	6469.4	6446.5	6319.2	6298.8	6319.2	6258.1	6263.2
5°	6571.3	6609.5	6456.7	6382.9	6245.4	6146.1	6031.5	5972.9	5868.6	5802.4	5876.2
7.5°	6627.3	6612.0	6421.0	6260.6	6054.4	5802.4	5601.2	5486.7	5303.3	5252.4	5290.6
10°	6606.9	6525.4	6301.4	6090.1	5700.5	5479.0	5153.1	4837.4	4664.3	4575.2	4562.5
12.5°	6578.9	6556.0	6181.7	5817.6	5407.7	4941.8	4483.5	4185.6	3903.0	3780.8	3798.7
15°	6612.0	6418.5	5957.7	5496.8	4952.0	4341.0	3847.0	3462.6	3266.5	3187.6	3187.6
17.5°	6596.7	6352.3	5850.7	5137.9	4447.9	3724.8	3182.5	2950.8	2869.4	2869.4	2892.3
20°	6604.4	6395.6	5634.3	4778.9	3852.1	3136.7	2742.1	2658.0	2693.7	2706.4	2719.1
22.5°	6647.6	6253.0	5423.0	4384.2	3299.6	2683.5	2490.0	2492.5	2556.2	2624.9	2612.2
25°	6701.1	6197.0	5165.9	3992.1	2877.0	2462.0	2400.9	2393.3	2441.6	2477.3	2482.4
27.5°	6655.3	6100.2	4903.6	3503.3	2530.7	2314.3	2301.6	2306.7	2322.0	2393.3	2370.3
30°	6805.5	6128.3	4575.2	3093.4	2339.8	2266.0	2250.7	2243.0	2266.0	2286.3	2268.5
32.5°	6991.4	6029.0	4330.8	2698.8	2245.6	2230.3	2199.8	2189.6	2202.3	2181.9	2192.1
35°	7072.8	6011.1	4012.5	2416.2	2171.7	2159.0	2141.2	2138.7	2141.2	2123.4	2108.1
37.5°	7118.7	6095.2	3648.4	2286.3	2125.9	2138.7	2097.9	2092.8	2047.0	2057.2	2064.8
40°	7197.6	5965.3	3353.1	2161.6	2097.9	2072.5	2036.8	2029.2	1998.6	1980.8	1998.6
42.5°	7083.0	5927.1	3062.9	2108.1	2057.2	2029.2	2003.7	1960.4	1950.2	1935.0	1924.8
45°	6991.4	5708.2	2803.2	2041.9	2008.8	1993.5	1945.2	1899.3	1861.1	1876.4	1853.5
47.5°	7060.1	5631.8	2546.0	1985.9	1942.6	1924.8	1876.4	1840.8	1802.6	1784.8	1779.7
50°	7335.1	5774.4	2329.6	1945.2	1886.6	1876.4	1812.8	1772.0	1736.4	1723.7	1728.7
52.5°	7991.9	6163.9	2181.9	1861.1	1833.1	1787.3	1751.7	1700.7	1677.8	1637.1	1662.5
55°	8824.5	6797.9	2143.7	1782.2	1766.9	1726.2	1677.8	1639.6	1596.4	1563.3	1555.6
56°	9091.8	7100.8	2113.2	1751.7	1726.2	1703.3	1639.6	1616.7	1548.0	1540.3	1535.2
57.5°	9308.2	7368.2	2118.3	1693.1	1667.6	1647.3	1609.1	1553.1	1507.2	1479.2	1492.0
60°	8819.4	6897.2	2021.5	1604.0	1598.9	1560.7	1507.2	1481.8	1425.8	1392.7	1385.0
62.5°	6556.0	4682.1	1639.6	1489.4	1486.9	1446.1	1385.0	1357.0	1346.8	1301.0	1301.0
65°	3775.7	2935.6	1418.1	1395.2	1374.8	1334.1	1273.0	1250.1	1224.6	1209.4	1196.6
67.5°	1611.6	1522.5	1288.3	1285.7	1262.8	1211.9	1150.8	1115.2	1082.1	1051.5	1066.8
70°	1168.6	1186.4	1163.5	1150.8	1122.8	1059.1	1005.7	962.4	911.5	891.1	906.4
72.5°	926.7	964.9	998.0	1000.6	967.5	893.7	835.1	776.5	720.5	692.5	705.2
75°	702.7	728.2	761.3	768.9	720.5	669.6	613.6	552.5	509.2	476.1	481.2
77.5°	506.7	501.6	532.1	527.0	504.1	468.5	417.5	361.5	313.2	282.6	285.2
80°	346.3	353.9	371.7	369.2	341.2	318.3	280.1	234.2	198.6	173.1	168.0
82.5°	241.9	254.6	269.9	257.1	234.2	211.3	183.3	150.2	122.2	101.8	96.7
85°	86.6	99.3	114.6	122.2	129.8	124.8	104.4	84.0	61.1	50.9	48.4
87.5°	17.8	20.4	22.9	22.9	22.9	20.4	17.8	17.8	15.3	7.6	7.6
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)