

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: P648564

Luminaire Tested: **GALN-SA7B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648564  
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-SA7B-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 18873.4 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

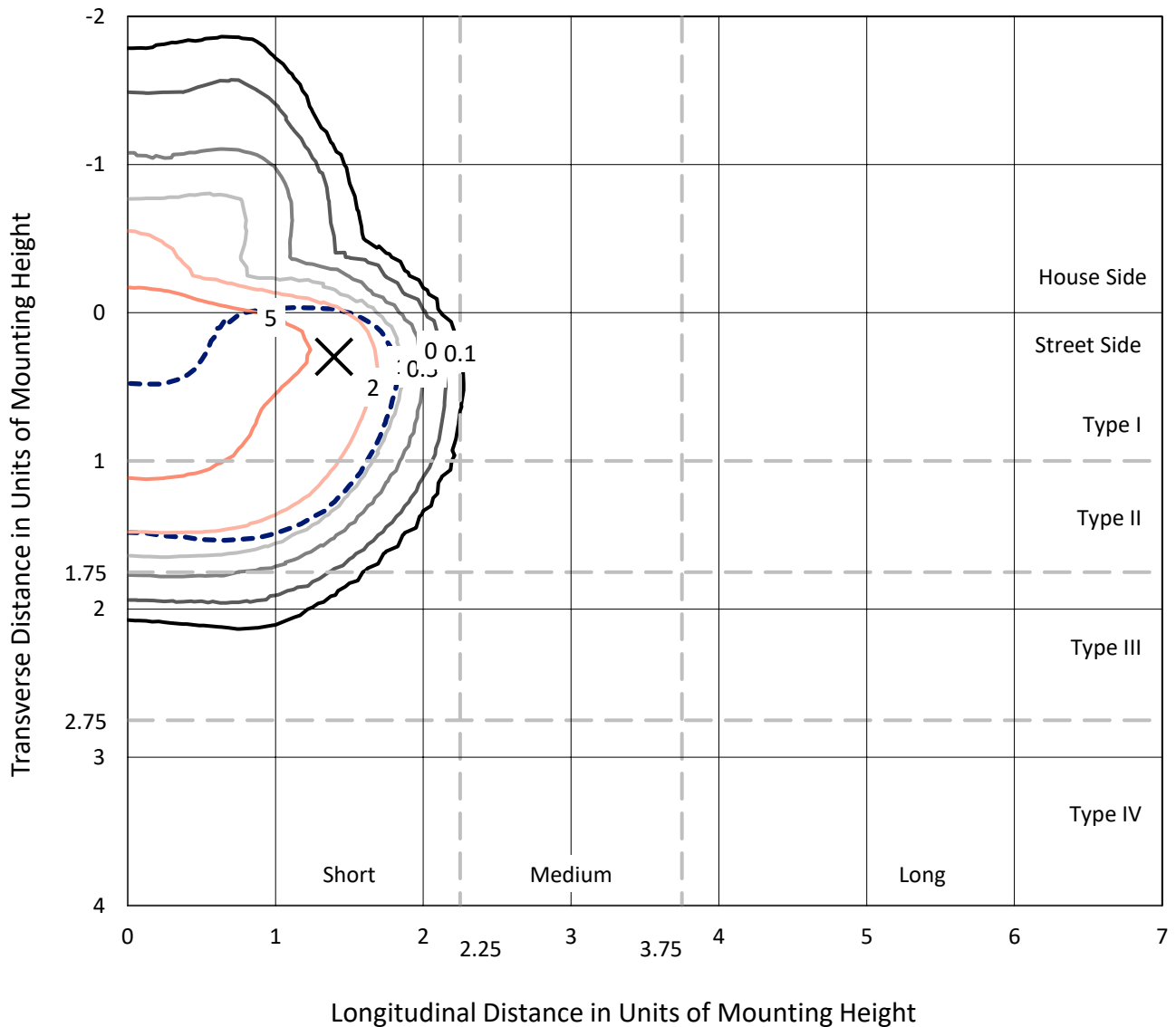
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

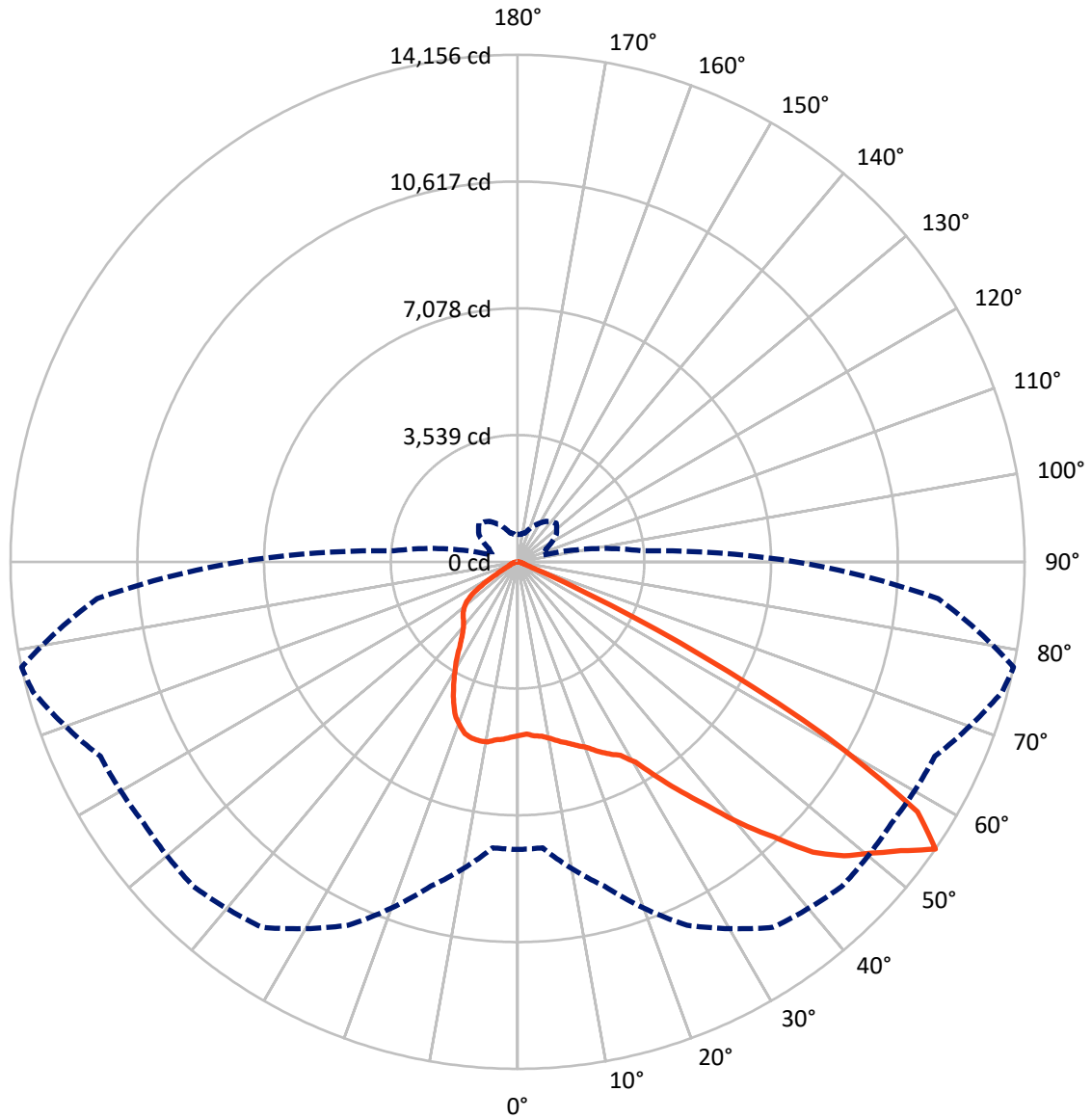
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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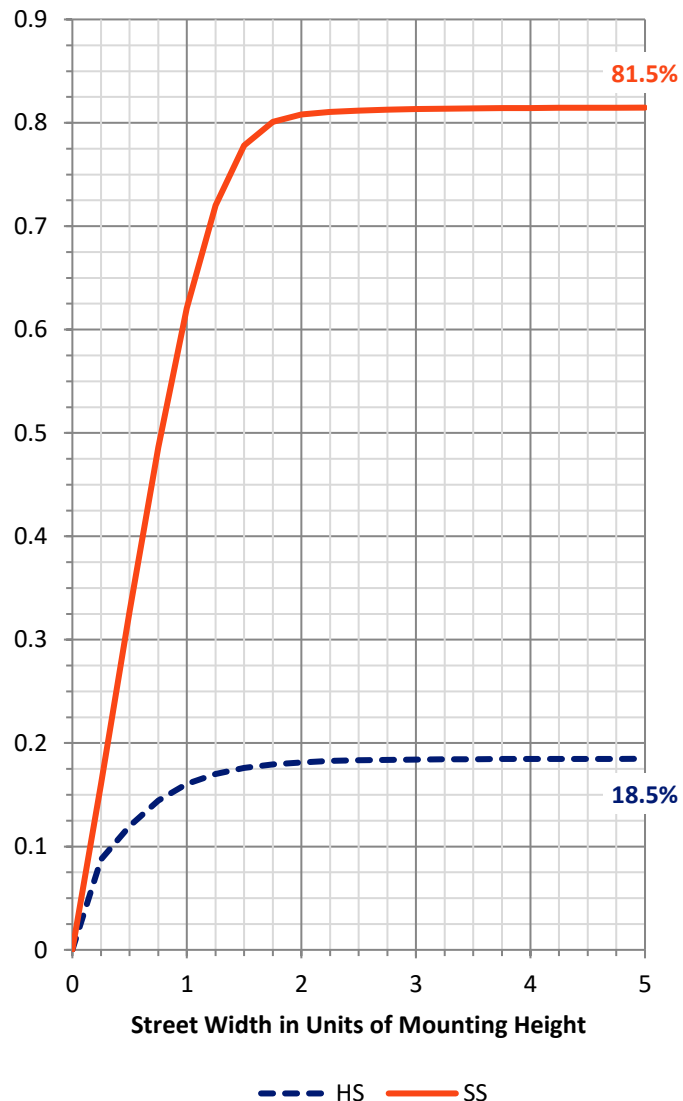
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3505.5	0.0	3505.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	15367.9	0.0	15367.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	18873.4	0.0	18873.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.7	2.3
10°-20°	1145.1	6.1
20°-30°	2007.1	10.6
30°-40°	3309.5	17.5
40°-50°	4815.7	25.5
50°-60°	5456.7	28.9
60°-70°	1560.2	8.3
70°-80°	121.1	0.6
80°-90°	25.2	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°	18873.4	100.0
0°-180°	18873.4	100.0

**Coefficient of Utilization**

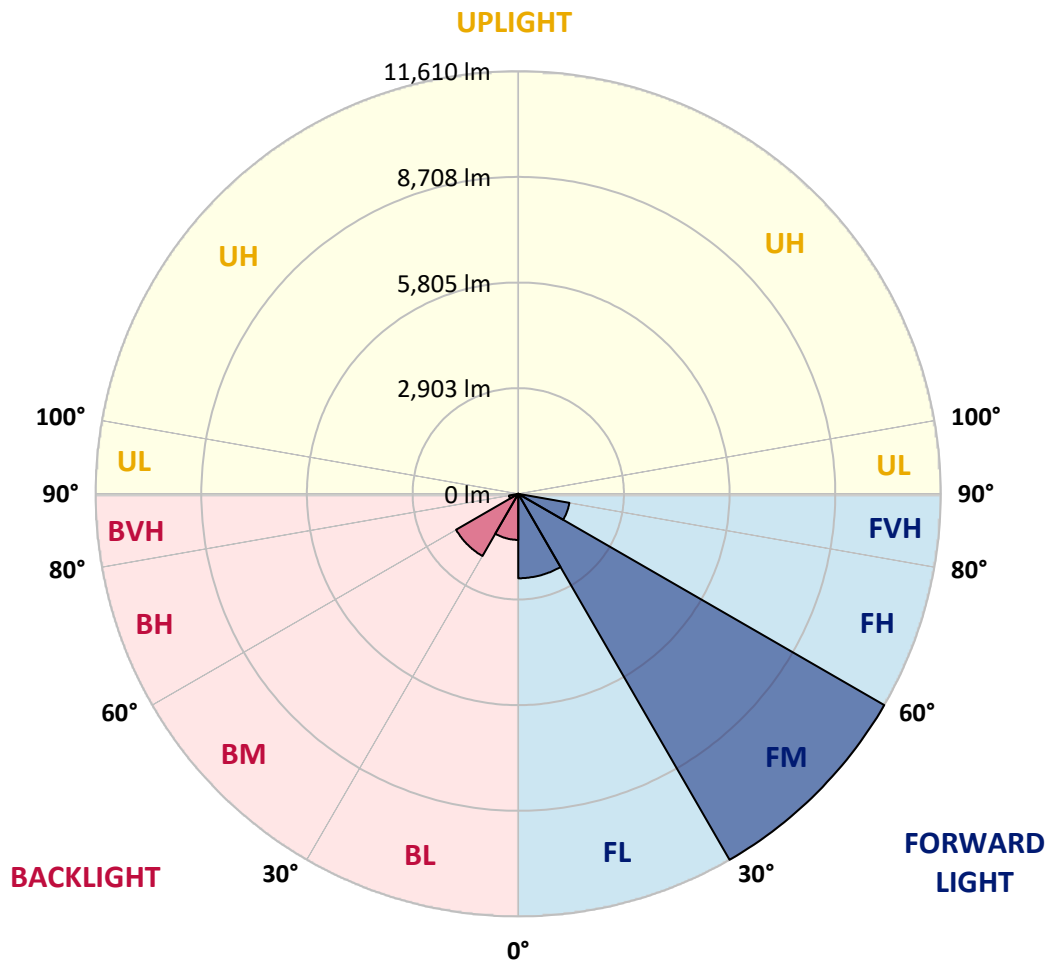


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.1	12.3			
FM (30°-60°)	11610.1	61.5			
FH (60°-80°)	1425.4	7.6			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	1264.8	6.7	B3/2500		
BM (30°-60°)	1971.9	10.4	B2/2500		
BH (60°-80°)	255.9	1.4	B1/500		G1/500
BVH (80°-90°)	12.9	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4
2.5°	4562.1	4606.1	4612.8	4666.8	4663.4	4754.5	4781.5	4784.9	4845.6	4815.2	4892.9
5°	4434.0	4410.3	4400.2	4494.7	4521.7	4602.6	4670.1	4710.7	4835.5	4879.3	4960.4
7.5°	4319.2	4319.2	4326.0	4410.3	4400.2	4504.8	4575.7	4700.5	4882.7	4919.8	5017.7
10°	4207.8	4167.4	4218.0	4305.7	4379.9	4427.2	4575.7	4693.8	4906.4	5014.3	5149.3
12.5°	4150.5	4170.7	4177.5	4241.6	4322.6	4464.4	4545.3	4741.0	5075.1	5139.2	5284.3
15°	4511.6	4471.1	4373.2	4315.8	4383.3	4450.8	4653.3	4852.4	5162.8	5253.9	5415.9
17.5°	4930.0	4896.3	4815.2	4660.0	4508.2	4633.0	4791.6	4973.9	5257.3	5392.3	5631.9
20°	5476.6	5422.7	5341.6	5038.0	4906.4	4771.4	4940.1	5156.1	5412.5	5534.0	5780.3
22.5°	6127.9	6127.9	5945.7	5577.9	5304.5	5176.3	5247.2	5372.0	5584.6	5750.0	5992.9
25°	6806.1	6785.9	6620.6	6239.3	5777.0	5625.1	5706.1	5793.8	5851.2	5942.3	6104.3
27.5°	7582.3	7464.2	7255.0	6833.2	6424.8	6131.3	6219.0	6141.4	6070.5	6117.7	6350.6
30°	8108.7	8182.9	7916.3	7511.4	7126.7	6799.4	6816.2	6748.8	6424.8	6492.3	6630.7
32.5°	8655.3	8702.6	8554.0	8331.4	7946.7	7565.3	7427.0	7369.7	7126.7	7157.1	7022.1
35°	9110.8	9202.0	9070.4	8972.5	8861.1	8554.0	8172.8	8358.4	7966.9	7892.7	7541.8
37.5°	9529.3	9502.3	9657.5	9556.3	9532.6	9316.7	8898.2	8935.4	8672.2	8655.3	8250.4
40°	9903.9	9910.6	10123.2	10170.4	10076.0	9691.3	9083.8	9377.4	9590.0	9610.2	9090.6
42.5°	10214.2	10305.4	10487.6	10868.9	10727.2	10086.1	9276.2	9596.8	10386.3	10511.2	9886.9
45°	10484.2	10669.8	10895.9	11236.7	11155.7	10646.2	9755.3	10048.9	11236.7	11564.0	10636.0
47.5°	10501.1	10744.1	10990.3	11496.6	11597.8	10946.5	10251.4	10764.3	11911.6	12265.9	11182.7
50°	10433.6	10561.8	11054.5	11604.5	11833.9	11435.8	10946.5	11364.9	12566.2	12788.9	11459.4
52.5°	9633.9	9731.8	10720.4	11705.8	12259.1	11989.2	11867.7	12201.8	13234.3	13399.7	11719.2
55°	8031.1	8014.2	9374.1	11196.2	12454.9	12809.2	12734.9	12853.0	14007.1	14155.5	11783.4
57.5°	5493.5	5800.5	6974.9	9323.4	11257.0	12616.9	12694.5	12498.7	13106.1	13163.5	10271.6
60°	2962.7	3091.0	4035.7	6222.3	8571.0	10281.7	10484.2	10129.9	10082.7	9920.7	7332.6
62.5°	1177.6	1241.8	1778.3	3080.8	4670.1	6249.4	6684.6	6539.5	6229.2	5803.9	3796.2
65°	560.2	600.6	884.1	1440.9	2071.9	2605.0	3040.3	3175.3	2341.8	2109.0	1251.9
67.5°	381.3	411.7	644.5	823.3	739.0	772.7	1005.5	934.7	550.1	469.0	347.6
70°	290.2	310.5	516.3	560.2	330.7	232.9	259.8	243.0	226.1	229.5	226.1
72.5°	205.9	222.7	378.0	330.7	145.1	108.0	138.4	165.4	165.4	165.4	162.0
75°	124.9	141.7	219.3	128.3	57.4	57.4	87.7	111.3	118.1	121.4	114.7
77.5°	64.1	81.0	74.2	37.1	37.1	43.8	64.1	77.6	84.3	84.3	81.0
80°	13.5	13.5	13.5	20.3	37.1	47.2	64.1	70.9	81.0	81.0	74.2
82.5°	0.0	3.4	10.1	20.3	33.7	43.8	60.8	70.9	81.0	84.3	77.6
85°	0.0	3.4	6.7	13.5	23.6	27.0	23.6	20.3	20.3	20.3	20.3
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4	4852.4
2.5°	4899.6	4909.7	4892.9	4889.5	4876.0	4916.5	4818.7	4795.0	4855.8	4798.4	4811.8
5°	4963.8	4987.3	4956.9	4906.4	4832.1	4717.4	4619.5	4491.3	4430.6	4386.7	4379.9
7.5°	5011.0	5027.8	4997.5	4835.5	4612.8	4322.6	4106.6	3948.0	3823.2	3786.0	3725.4
10°	5203.3	5206.7	5054.8	4697.1	4261.9	3880.5	3549.9	3306.9	3182.0	3104.4	3070.7
12.5°	5331.5	5324.8	5017.7	4423.8	3843.4	3337.3	2959.3	2665.8	2551.0	2513.9	2490.3
15°	5493.5	5456.4	4930.0	4143.7	3303.6	2756.9	2416.0	2213.6	2203.4	2179.9	2203.4
17.5°	5621.7	5517.1	4801.7	3634.2	2787.2	2270.9	2048.2	2061.7	2088.7	2112.4	2115.7
20°	5830.9	5615.0	4508.2	3188.8	2308.0	1947.0	1943.6	2004.4	2071.9	2098.8	2125.8
22.5°	5989.6	5655.5	4194.4	2713.0	1916.6	1815.4	1872.8	1963.9	2014.5	2041.5	2082.0
25°	6046.9	5544.1	3775.9	2237.2	1727.7	1754.7	1842.4	1903.2	1967.3	1997.7	1980.8
27.5°	6104.3	5486.8	3276.5	1842.4	1626.4	1714.2	1788.5	1849.1	1869.4	1909.9	1936.9
30°	6242.6	5287.7	2827.7	1592.7	1575.9	1687.2	1741.2	1761.4	1815.4	1839.0	1839.0
32.5°	6354.0	5210.1	2352.0	1474.6	1569.1	1700.7	1707.4	1707.4	1714.2	1697.3	1690.6
35°	6583.5	4943.5	1926.8	1403.8	1565.7	1704.0	1721.0	1663.6	1508.4	1447.6	1430.8
37.5°	6866.9	4771.4	1613.0	1386.8	1589.3	1744.5	1771.5	1555.6	1353.1	1255.3	1238.4
40°	7211.0	4649.9	1407.1	1380.1	1643.4	1839.0	1758.1	1471.3	1208.0	1066.3	1059.6
42.5°	7612.6	4538.6	1268.8	1376.7	1710.8	1936.9	1744.5	1400.4	1059.6	965.0	978.6
45°	7933.2	4477.8	1174.3	1353.1	1734.4	1994.3	1754.7	1275.5	998.8	938.1	944.8
47.5°	8182.9	4349.6	1096.7	1312.6	1731.1	2014.5	1663.6	1224.9	968.4	985.3	1002.2
50°	8189.6	4177.5	998.8	1224.9	1680.5	1977.4	1559.0	1177.6	961.7	1032.5	1066.3
52.5°	8098.6	3934.6	894.2	1100.0	1562.3	1849.1	1464.5	1157.4	931.3	924.6	965.0
55°	7774.6	3479.0	718.7	890.8	1319.4	1525.2	1380.1	1120.3	840.2	762.6	769.4
57.5°	6283.1	2493.7	529.8	637.8	934.7	1116.9	1245.1	1103.4	755.8	647.9	651.2
60°	3890.6	1413.9	388.1	435.3	577.0	678.2	1009.0	1025.8	674.9	546.6	539.9
62.5°	1997.7	698.5	300.4	307.1	354.3	398.2	691.8	860.4	610.7	519.7	519.7
65°	668.1	344.2	263.2	236.2	236.2	246.3	418.4	597.3	516.3	435.3	435.3
67.5°	286.8	256.4	229.5	205.9	188.9	178.8	236.2	347.6	384.7	330.7	317.2
70°	222.7	216.0	199.1	172.1	148.5	135.0	138.4	178.8	219.3	212.6	205.9
72.5°	165.4	165.4	158.6	135.0	114.7	97.9	91.1	94.5	104.6	108.0	111.3
75°	114.7	118.1	118.1	104.6	84.3	70.9	60.8	50.6	40.5	33.7	30.4
77.5°	77.6	81.0	87.7	77.6	64.1	47.2	37.1	27.0	16.8	6.7	6.7
80°	67.5	77.6	84.3	77.6	67.5	50.6	37.1	20.3	10.1	0.0	0.0
82.5°	70.9	77.6	87.7	74.2	64.1	47.2	37.1	23.6	10.1	3.4	0.0
85°	16.8	16.8	20.3	23.6	30.4	33.7	27.0	16.8	10.1	3.4	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	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)