

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: P648528

Luminaire Tested: **GALN-SA7B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
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-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28002.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 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

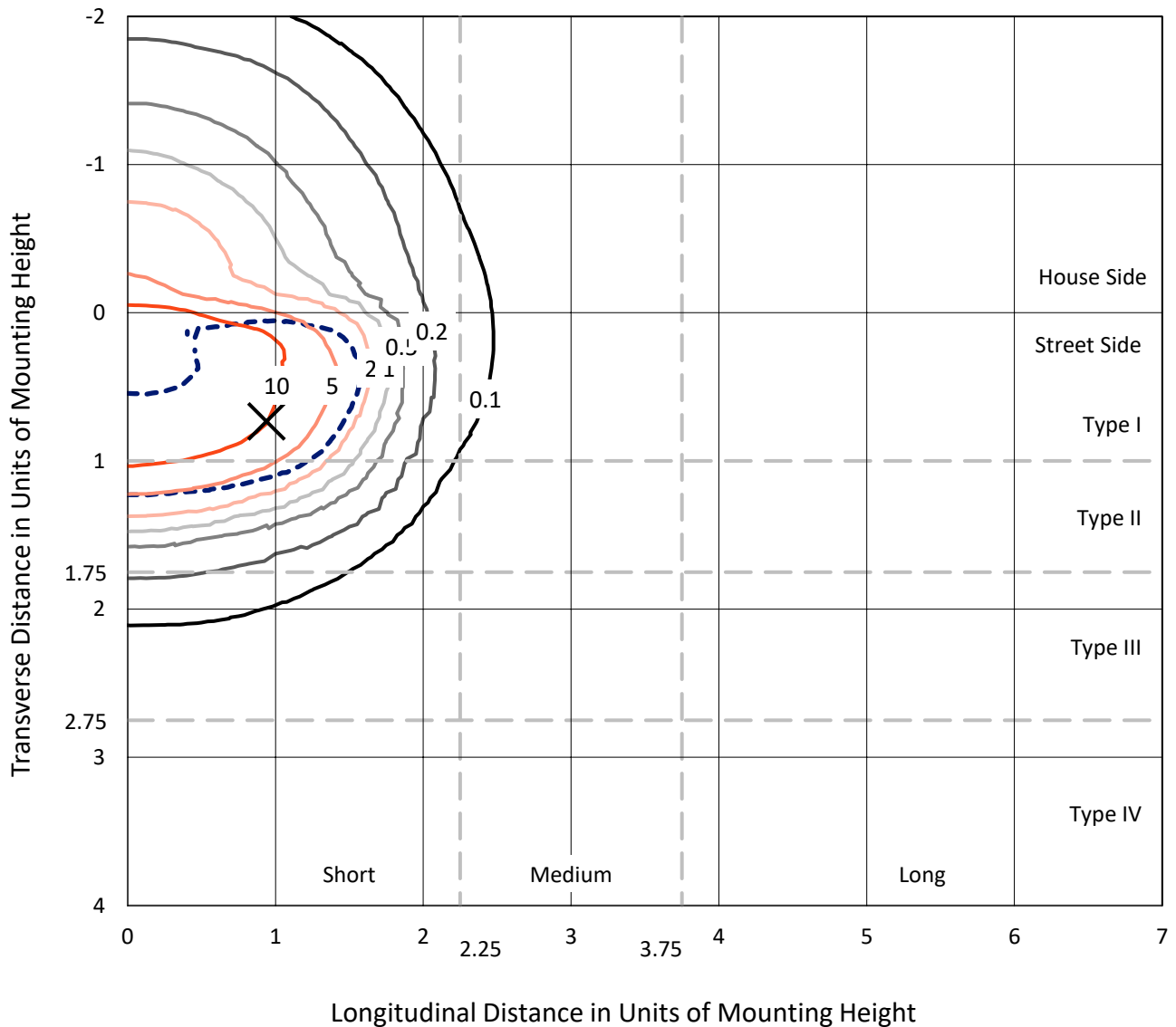
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

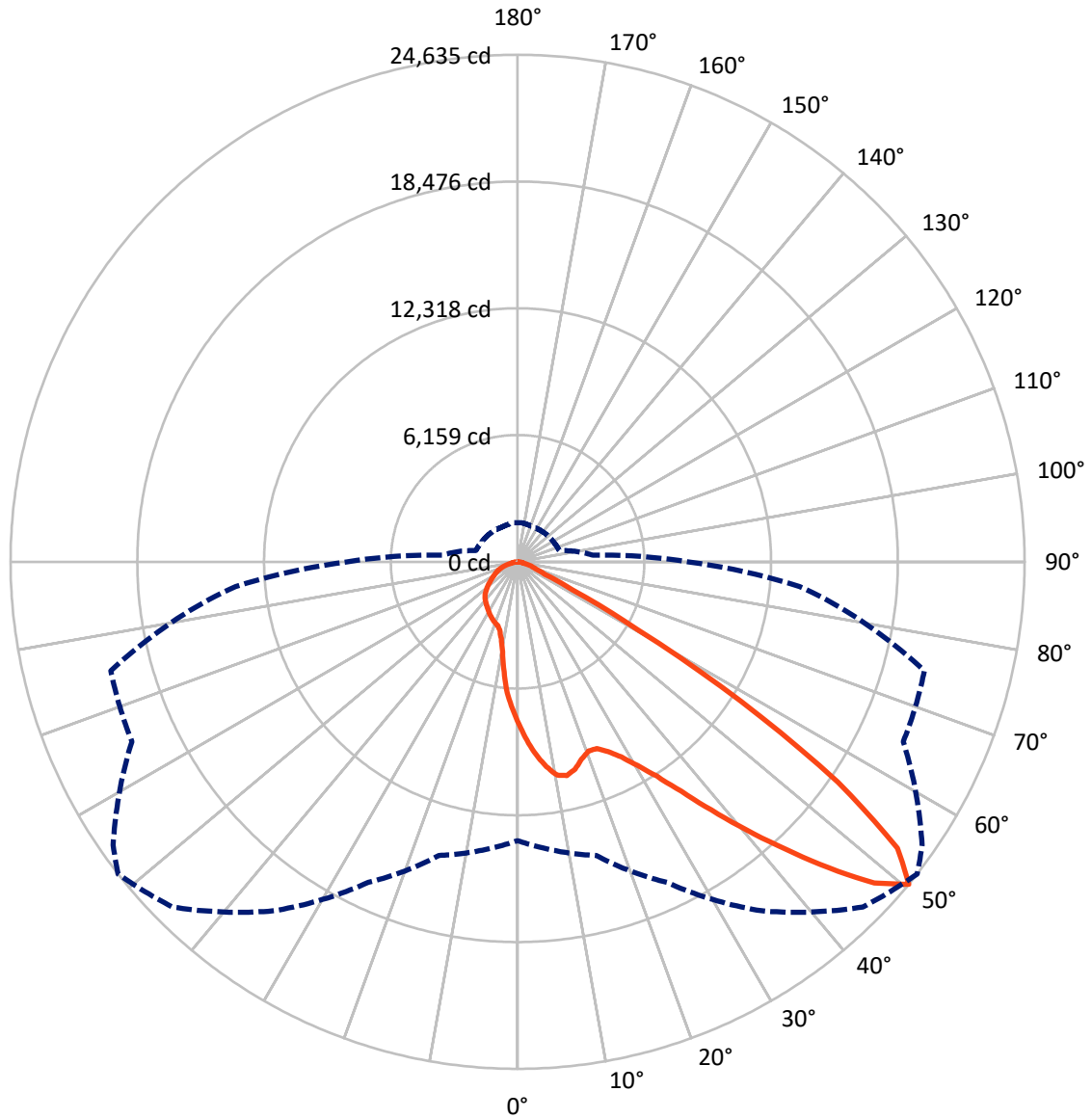
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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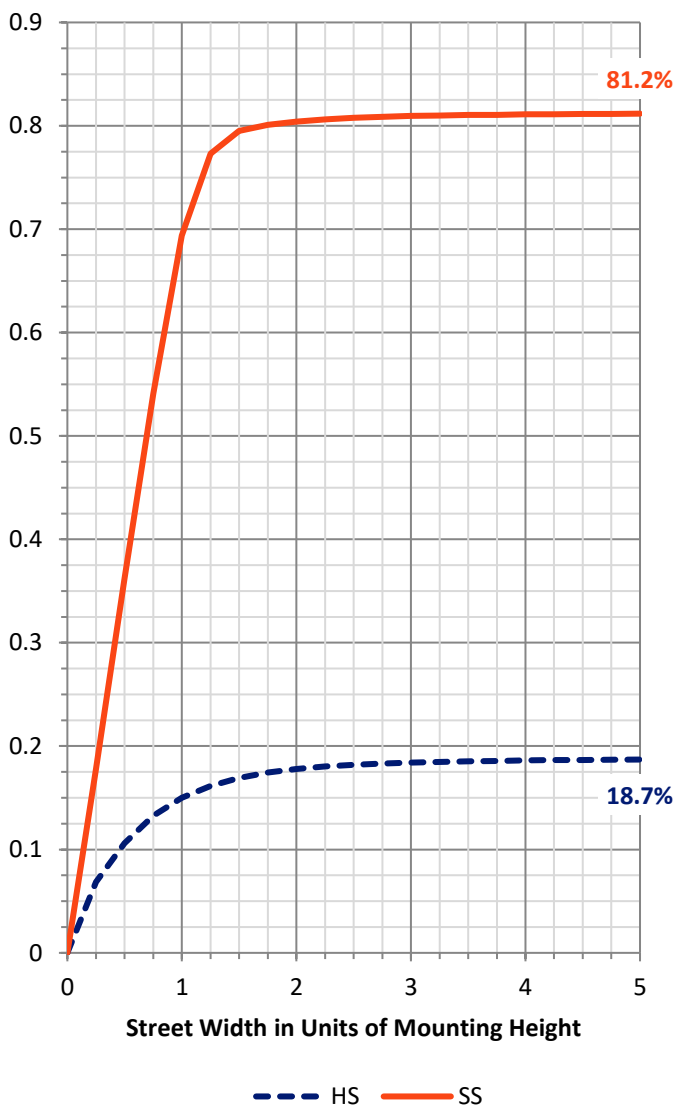
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5263.8	0.0	5263.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22738.6	0.0	22738.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28002.4	0.0	28002.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.5	2.6
10°-20°	1950.0	7.0
20°-30°	3284.7	11.7
30°-40°	5511.9	19.7
40°-50°	8431.9	30.1
50°-60°	6147.5	22.0
60°-70°	1368.1	4.9
70°-80°	493.5	1.8
80°-90°	87.3	0.3
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°	28002.4	100.0
0°-180°	28002.4	100.0

**Coefficient of Utilization**



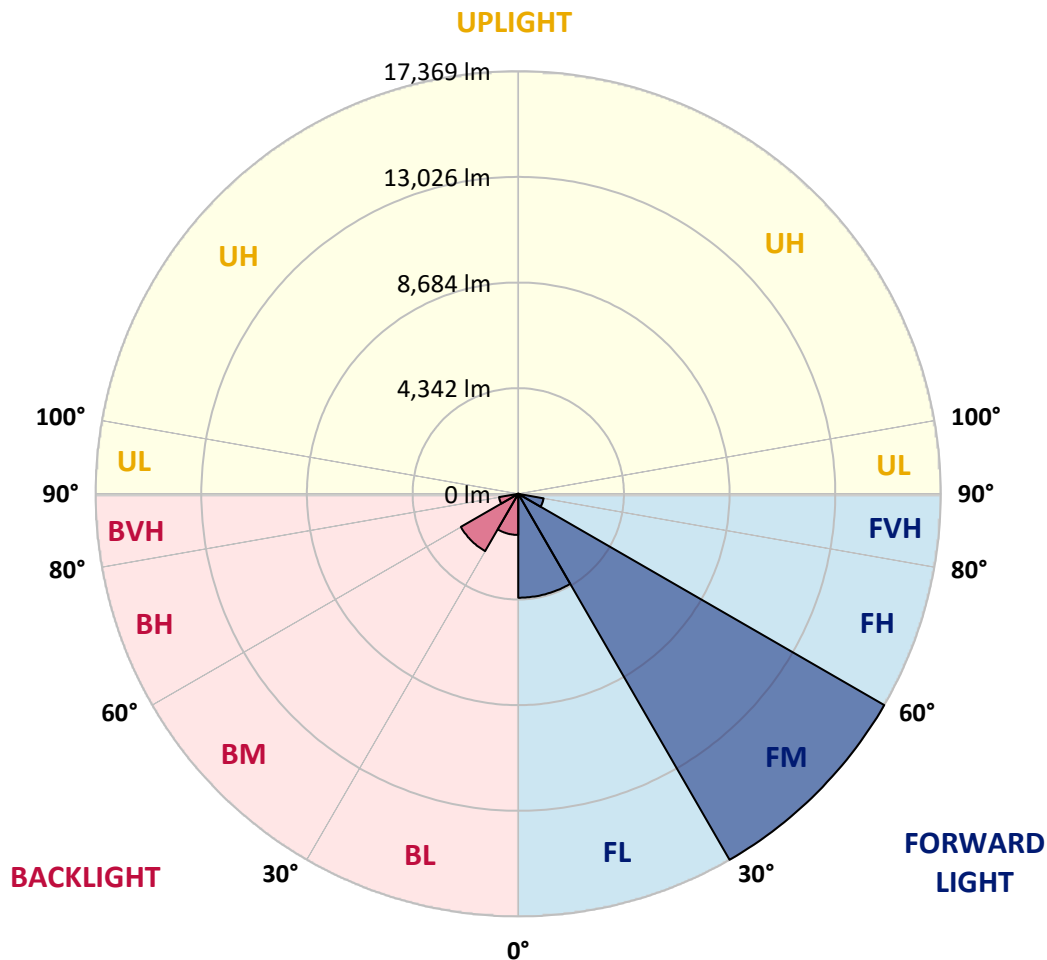
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4271.3	15.3			
FM (30°-60°)	17368.5	62.0			
FH (60°-80°)	1059.6	3.8			G1/1800
FVH (80°-90°)	39.1	0.1			G1/100
BL (0°-30°)	1690.8	6.0	B3/2500		
BM (30°-60°)	2722.8	9.7	B3/5000		
BH (60°-80°)	802.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	48.2	0.2			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°	52°	55°	65°	75°	85°
0°	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4
2.5°	9293.9	9115.1	9135.3	9007.1	8868.7	8828.2	8686.4	8551.5	8450.2	8234.3	8035.1
5°	10157.9	10103.8	10022.9	9921.6	9817.0	9560.5	9415.4	9246.7	8875.5	8541.4	8210.6
7.5°	10282.7	10272.6	10316.4	10316.4	10353.6	10255.7	10049.9	9931.7	9536.9	8993.5	8379.4
10°	9405.3	9435.6	9648.3	9925.0	10309.7	10576.3	10542.5	10512.2	10080.3	9337.8	8578.5
12.5°	8706.7	8639.2	8764.1	9000.4	9577.4	10222.0	10657.3	10660.7	10549.3	9887.9	8723.6
15°	8311.9	8359.2	8392.9	8504.2	8939.6	9685.4	10451.4	10677.5	11166.9	10275.9	8953.1
17.5°	8565.0	8406.4	8399.6	8426.6	8649.3	9209.6	10070.1	10458.2	11504.4	10775.4	9236.6
20°	8895.7	8892.3	8797.9	8764.1	8760.8	9260.1	9820.4	10346.8	11683.2	11423.3	9523.4
22.5°	9476.2	9476.2	9320.9	9246.7	9088.0	9496.4	9854.1	10211.8	11980.2	11868.8	9661.8
25°	10448.0	10289.5	10022.9	9840.6	9749.5	9894.6	10211.8	10532.4	12240.0	12341.3	9948.6
27.5°	11345.7	11096.0	10964.4	10650.5	10529.1	10444.7	10734.9	11058.9	12543.7	13077.0	10103.8
30°	12364.9	12321.1	12084.8	11679.9	11379.5	11224.2	11490.8	11811.5	13100.6	13829.5	10461.6
32.5°	14187.3	13789.0	13468.5	12972.4	12483.0	12152.3	12415.5	12628.1	14025.3	14615.8	10853.0
35°	16154.7	16026.4	15473.0	14578.7	13829.5	13532.5	13687.8	13846.4	15101.8	15817.2	11511.1
37.5°	18088.4	17912.9	17457.3	16704.8	15793.6	15189.5	15300.9	15486.5	16309.9	17437.1	12314.2
40°	19478.8	19262.8	19033.3	18921.9	18017.5	17190.7	17126.6	17173.9	17943.3	18955.6	13205.2
42.5°	19580.0	19846.6	19917.5	20366.3	20153.7	19475.4	19080.5	19090.6	19502.4	20457.4	14106.2
45°	19367.4	19121.0	19644.1	20869.1	21571.1	21888.3	21223.4	21139.1	20467.5	21328.1	14555.1
47.5°	17136.7	17204.2	18088.4	20025.5	22053.7	23471.1	23315.8	23035.7	20983.9	21297.8	14484.2
50°	13546.1	13954.4	14774.4	17187.3	20703.8	23720.8	24635.3	23987.4	20676.8	20460.8	13762.0
52.5°	9020.6	9189.3	9729.2	12844.1	16647.4	21203.2	23116.7	23265.2	20393.3	19364.1	12847.5
55°	4015.9	4002.4	4761.7	6708.9	10444.7	16134.4	18888.2	19792.6	19303.3	18247.0	11956.6
57.5°	1700.8	1758.2	2068.7	2898.9	5136.3	9736.0	12796.9	13589.9	14845.3	14983.6	9172.5
60°	1150.8	1157.5	1241.9	1451.1	2149.6	4572.7	6712.3	7663.9	8561.6	8500.9	4866.3
62.5°	904.4	928.0	992.1	1076.5	1275.7	2075.4	3003.5	3533.3	3590.7	3020.3	1845.9
65°	772.8	776.2	840.3	911.2	998.9	1208.2	1447.8	1474.8	1491.6	1437.6	1356.6
67.5°	637.8	644.6	695.2	776.2	857.2	924.6	992.1	1025.9	1103.6	1255.4	1235.1
70°	506.2	516.3	560.2	627.7	702.0	742.4	826.8	857.2	928.0	1046.2	1093.4
72.5°	384.7	388.1	425.2	472.5	540.0	580.4	651.3	685.0	732.3	833.6	877.4
75°	276.7	286.8	313.8	337.5	347.6	374.6	442.1	479.2	546.7	590.5	594.0
77.5°	145.1	151.8	158.6	158.6	192.4	243.0	286.8	307.1	354.3	388.1	371.2
80°	57.4	60.8	77.6	104.6	135.0	175.5	205.9	216.0	256.5	276.7	286.8
82.5°	33.7	37.1	50.6	74.2	97.9	124.9	148.5	158.6	185.6	209.2	216.0
85°	16.8	20.3	30.4	47.2	64.1	77.6	74.2	70.9	70.9	67.5	70.9
87.5°	6.7	6.7	10.1	10.1	10.1	13.5	16.8	16.8	16.8	20.3	20.3
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°	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4	7893.4
2.5°	7903.5	7768.5	7643.7	7414.2	7164.4	7093.6	6803.4	6698.8	6624.6	6536.8	6509.8
5°	7944.0	7765.2	7363.6	6901.3	6533.4	6061.0	5750.5	5416.4	5173.4	5112.7	5095.8
7.5°	8028.4	7721.3	7029.5	6330.9	5578.4	4937.2	4447.8	4184.7	3951.8	3938.3	3914.7
10°	8122.9	7589.7	6665.1	5568.2	4606.5	4012.5	3718.9	3604.1	3546.8	3533.3	3526.6
12.5°	8200.5	7562.7	6256.7	4825.8	3918.1	3560.3	3472.5	3462.4	3486.1	3492.8	3506.3
15°	8234.3	7454.7	5764.0	4161.0	3489.4	3357.8	3394.9	3435.4	3452.3	3496.2	3462.4
17.5°	8298.4	7316.4	5156.5	3634.5	3249.8	3273.5	3337.6	3384.8	3411.8	3442.2	3398.3
20°	8332.1	7191.5	4586.2	3320.7	3165.4	3209.4	3297.1	3334.2	3367.9	3381.5	3330.8
22.5°	8301.8	6935.0	4083.4	3067.6	3084.5	3141.9	3219.5	3259.9	3239.7	3185.7	3155.3
25°	8220.8	6573.9	3560.3	2905.6	2969.8	3071.0	3131.7	3101.4	3064.2	3033.9	3023.7
27.5°	8217.4	6131.8	3182.3	2757.1	2871.9	3010.2	2990.0	2963.0	2979.9	2956.2	2929.2
30°	8234.3	5703.2	2871.9	2672.8	2801.0	2868.5	2892.1	2865.2	2885.4	2841.5	2855.0
32.5°	8146.5	5284.8	2669.4	2574.9	2716.6	2713.3	2790.8	2811.1	2763.9	2672.8	2686.2
35°	8183.7	4947.3	2497.3	2531.0	2622.1	2622.1	2682.9	2659.2	2534.4	2480.4	2493.9
37.5°	8440.1	4616.6	2412.9	2470.3	2531.0	2558.0	2537.8	2436.5	2406.2	2406.2	2412.9
40°	8683.1	4333.1	2362.3	2456.8	2446.6	2463.6	2315.0	2325.2	2325.2	2328.6	2311.7
42.5°	8899.1	4140.7	2321.8	2375.8	2392.7	2304.9	2213.8	2203.7	2227.3	2224.0	2210.4
45°	8976.7	3982.2	2264.4	2284.6	2298.2	2153.1	2109.2	2089.0	2115.9	2126.1	2139.5
47.5°	8679.7	3850.6	2200.3	2159.8	2132.8	2038.3	1980.9	1943.8	1977.5	2034.9	2048.4
50°	8298.4	3678.5	2099.1	2021.5	1964.1	1923.6	1883.1	1845.9	1869.6	1910.1	1899.9
52.5°	7734.8	3408.5	1970.8	1889.8	1792.0	1802.1	1765.0	1744.7	1758.2	1758.2	1748.1
55°	6931.7	2801.0	1754.9	1697.5	1616.5	1643.5	1650.3	1623.2	1596.2	1619.9	1599.6
57.5°	4731.4	1977.5	1565.8	1565.8	1484.9	1522.0	1518.6	1454.5	1390.4	1397.1	1383.6
60°	2736.9	1576.0	1444.4	1430.9	1346.5	1376.9	1383.6	1339.8	1241.9	1248.7	1235.1
62.5°	1555.7	1346.5	1262.1	1241.9	1225.0	1252.0	1252.0	1194.6	1110.3	1117.0	1103.6
65°	1322.9	1248.7	1127.1	1123.8	1117.0	1123.8	1096.7	1036.1	961.8	931.4	934.8
67.5°	1201.4	1154.1	1036.1	1005.7	985.4	982.0	931.4	874.1	840.3	813.3	809.9
70°	1052.9	1015.8	928.0	887.5	867.3	820.0	769.5	732.3	685.0	671.6	685.0
72.5°	833.6	830.2	796.5	752.5	708.7	671.6	627.7	577.1	533.2	523.0	499.5
75°	577.1	583.8	590.5	583.8	546.7	499.5	448.8	408.3	354.3	324.0	317.2
77.5°	378.0	388.1	398.2	384.7	361.1	317.2	283.4	232.9	192.4	168.7	165.4
80°	276.7	290.3	297.0	286.8	259.9	226.1	189.0	148.5	118.1	97.9	97.9
82.5°	212.6	226.1	232.9	216.0	189.0	162.0	135.0	104.6	81.0	64.1	60.8
85°	74.2	70.9	84.3	87.8	104.6	97.9	81.0	60.8	47.2	33.7	30.4
87.5°	20.3	20.3	23.6	23.6	20.3	16.8	16.8	16.8	13.5	10.1	10.1
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)