

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: P648640

Luminaire Tested: **GALN-SA9B-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40786.5 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

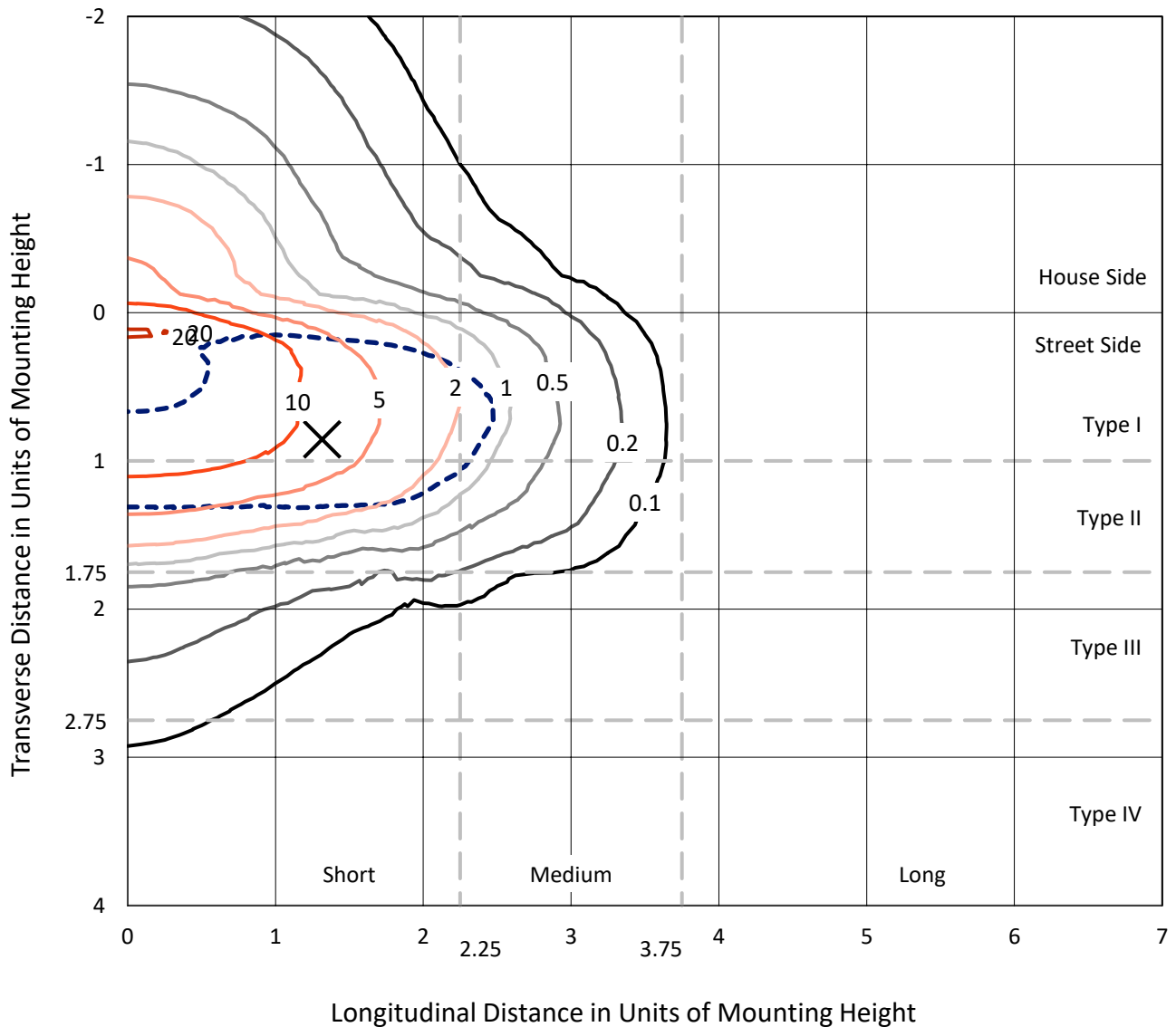
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

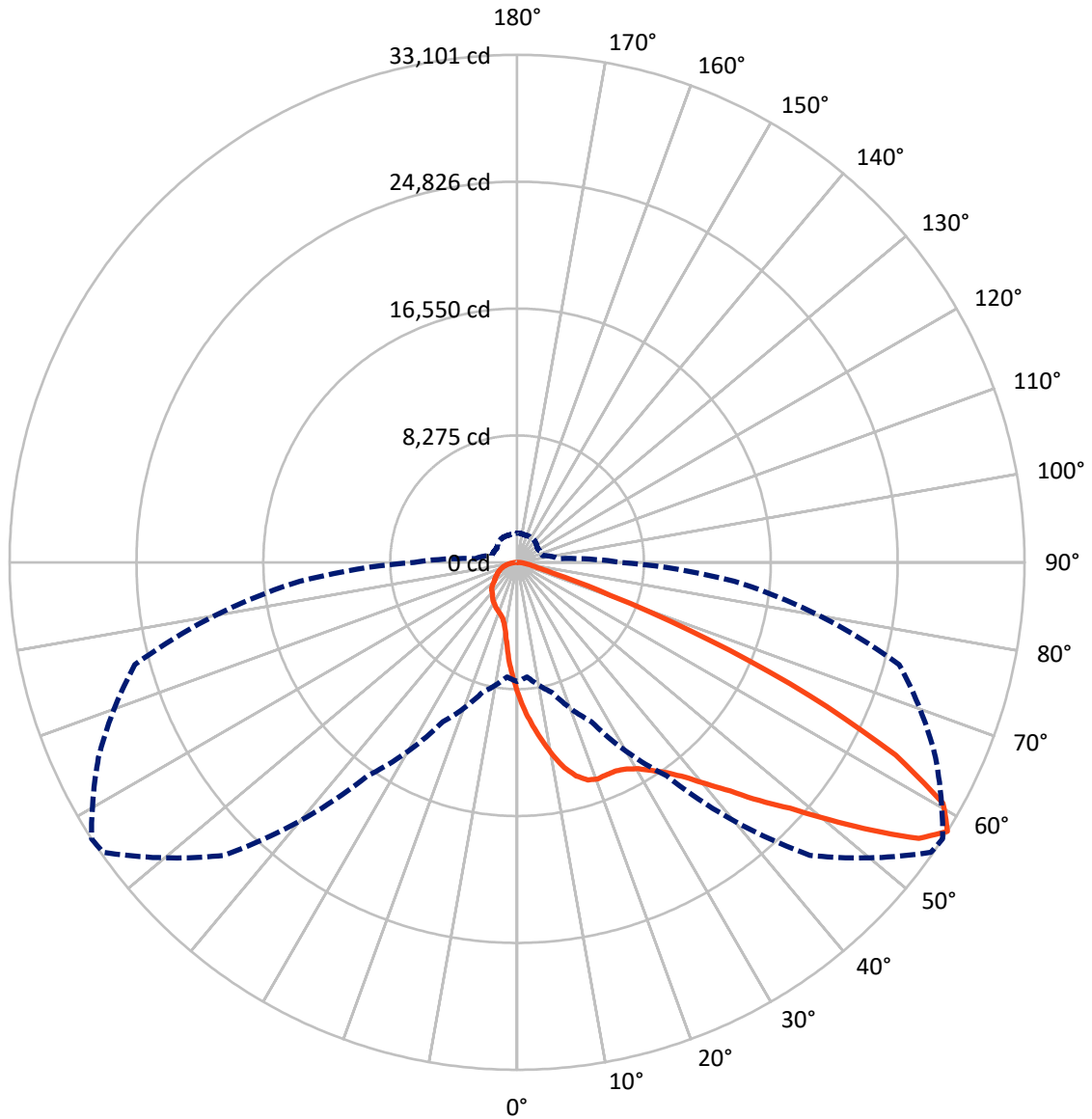
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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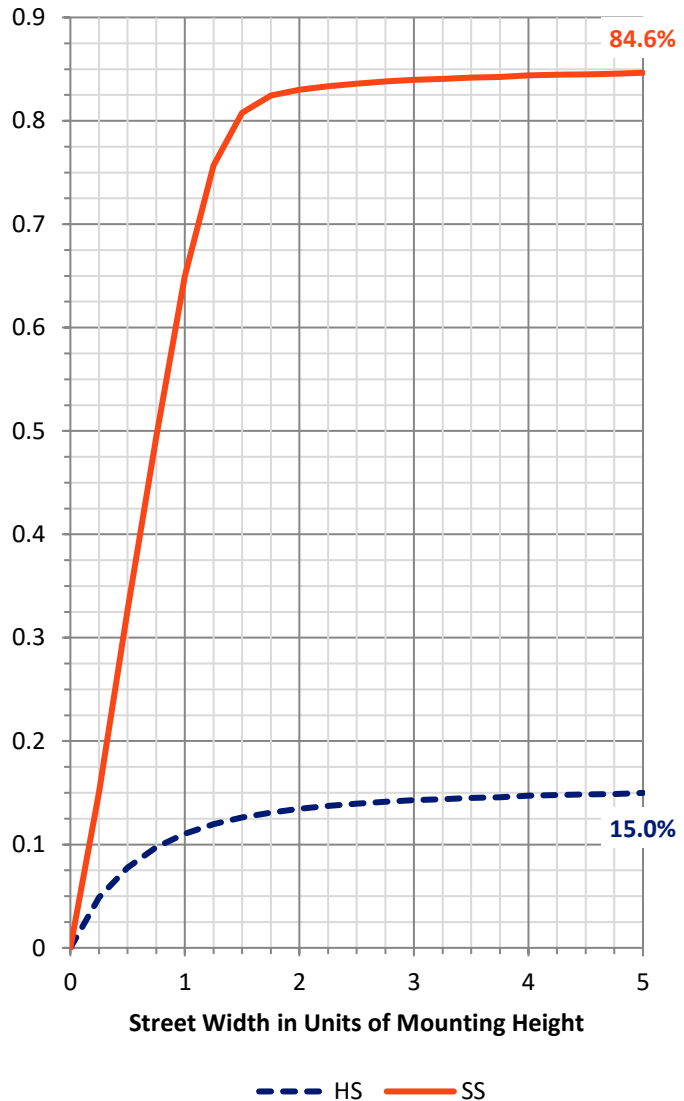
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6202.5	0.0	6202.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	34584.0	0.0	34584.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	40786.5	0.0	40786.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	823.5	2.0
10°-20°	2427.0	6.0
20°-30°	4030.1	9.9
30°-40°	6070.5	14.9
40°-50°	9114.3	22.3
50°-60°	10216.0	25.0
60°-70°	5978.9	14.7
70°-80°	1768.5	4.3
80°-90°	357.5	0.9
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°	40786.5	100.0
0°-180°	40786.5	100.0

**Coefficient of Utilization**

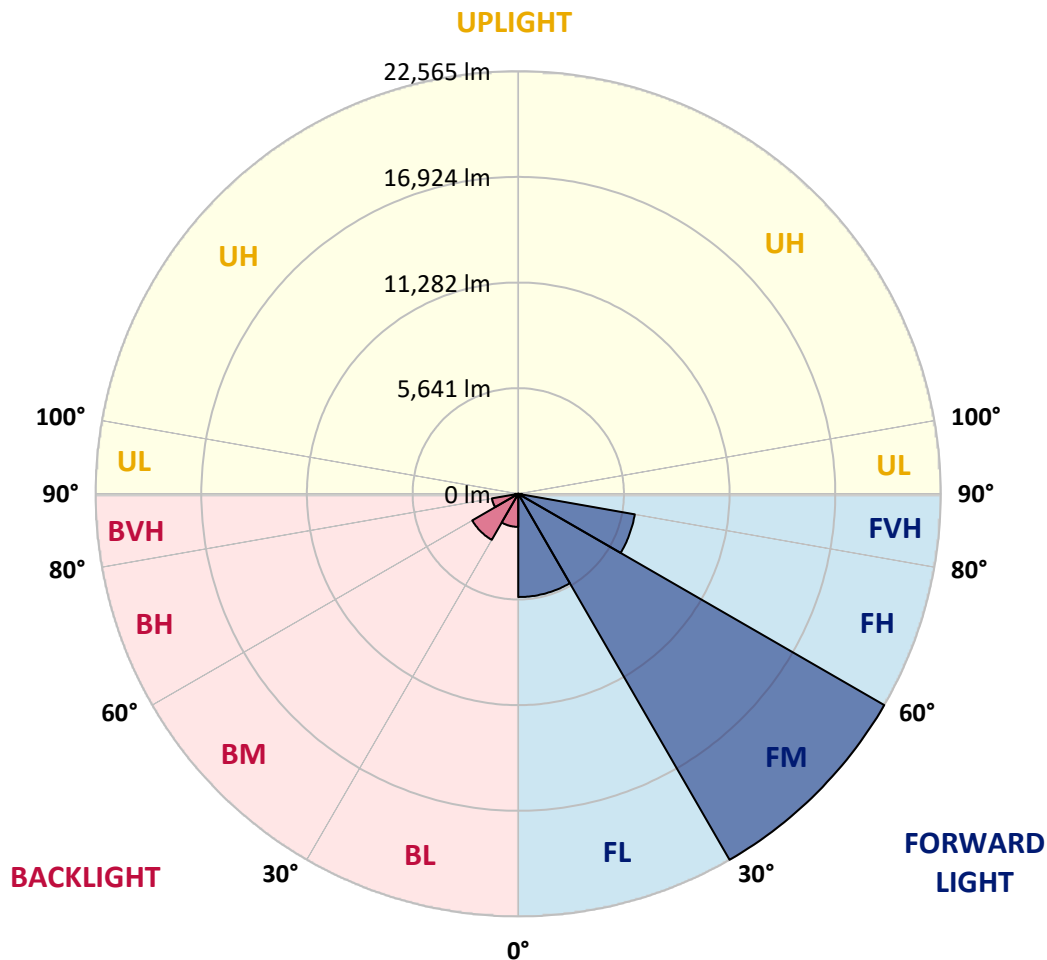


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5513.4	13.5			
FM (30°-60°)	22564.9	55.3			
FH (60°-80°)	6320.3	15.5			G3/7500
FVH (80°-90°)	185.5	0.5			G2/225
BL (0°-30°)	1767.3	4.3	B3/2500		
BM (30°-60°)	2836.0	7.0	B3/5000		
BH (60°-80°)	1427.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	172.0	0.4			G2/225
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°	55°	57°	65°	75°	85°
0°	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8
2.5°	10647.3	10531.3	10439.7	10359.3	10254.4	9970.9	9687.3	9682.8	9457.4	9109.0	8751.8
5°	12382.0	12225.8	12245.9	11995.8	11745.8	11334.9	10734.4	10703.1	10223.2	9571.2	8908.1
7.5°	13511.8	13514.0	13451.5	13308.6	13038.4	12571.8	11890.9	11736.9	11069.3	10080.3	9086.7
10°	13453.7	13514.0	13619.0	13741.7	13824.3	13594.4	12973.7	12786.2	11917.7	10696.5	9285.4
12.5°	12681.2	12775.0	12924.6	13232.7	13730.6	14110.1	13898.0	13746.2	12900.0	11310.4	9504.2
15°	12199.0	12254.8	12337.4	12545.1	13080.9	13989.5	14538.7	14458.4	13826.6	12004.8	9749.8
17.5°	12051.6	12107.5	12134.2	12261.5	12643.3	13574.3	14791.0	14933.9	14648.2	12643.3	9997.7
20°	12199.0	12225.8	12225.8	12301.7	12600.9	13331.0	14779.9	15067.9	15322.4	13409.1	10229.8
22.5°	12585.2	12596.4	12580.8	12607.6	12830.9	13397.9	14675.0	15032.2	15867.2	14058.8	10410.7
25°	13212.6	13230.4	13127.8	13065.2	13228.2	13692.6	14733.0	15061.2	16293.6	14679.4	10531.3
27.5°	13924.8	13947.1	13822.1	13677.0	13752.9	14056.6	14960.8	15255.4	16612.9	15291.2	10607.1
30°	14797.8	14806.7	14596.8	14422.7	14373.5	14599.0	15349.2	15623.8	17010.3	16012.3	10721.0
32.5°	15690.8	15757.8	15487.7	15242.0	15159.4	15228.6	15923.0	16188.7	17483.6	16787.1	10904.1
35°	16905.4	16916.5	16592.8	16293.6	16021.2	16110.5	16657.5	16849.5	18137.7	17682.3	11163.1
37.5°	18421.3	18524.0	18077.4	17519.3	17184.4	17054.9	17546.1	17756.0	19055.3	18780.7	11553.8
40°	20104.7	20142.7	19760.9	19412.6	18800.8	18425.8	18765.1	18992.8	20187.3	20091.3	12007.0
42.5°	21162.9	21245.5	21274.6	21238.9	20778.9	20149.3	20278.8	20386.0	21526.9	21321.5	12471.4
45°	21520.1	21643.0	22058.2	22937.9	22987.0	22366.3	22064.9	22167.6	22987.0	22562.8	12915.7
47.5°	20928.5	21138.4	21904.2	23708.1	25058.8	25105.7	24197.0	23971.5	24317.6	23592.0	13237.2
50°	19399.2	19443.8	20615.9	23228.1	26030.1	27724.6	26784.6	26364.9	25581.3	24353.3	13458.2
52.5°	17032.6	17084.0	18066.3	20997.7	25431.7	29555.4	29812.1	29061.9	26865.0	24945.0	13603.3
55°	12643.3	12940.2	14020.8	16854.0	22596.3	29383.4	32218.9	31792.4	28416.7	25413.8	13831.1
57.5°	7773.9	7501.6	8783.1	11466.7	16994.6	27021.3	32962.3	33100.7	30124.7	25806.7	14212.8
60°	3576.7	3630.2	4159.4	5914.2	10359.3	21138.4	31046.7	31921.9	31069.0	25793.4	14308.9
62.5°	2464.8	2415.7	2281.7	2596.5	4724.2	13368.9	26224.3	27706.8	29175.8	24991.9	13927.1
65°	2203.6	2154.5	1895.5	1808.4	2170.1	5827.1	19064.2	20935.2	24565.5	22969.1	12976.0
67.5°	2058.5	1991.5	1723.5	1553.9	1549.4	2319.7	11241.2	13493.9	18220.3	19419.3	11243.4
70°	1906.7	1853.0	1587.4	1399.8	1319.5	1457.9	4940.8	6467.9	11830.6	13994.0	8758.6
72.5°	1754.9	1692.3	1453.4	1252.5	1147.6	1091.7	1893.3	2462.5	6684.5	8390.2	5369.4
75°	1533.8	1502.6	1299.4	1134.2	1020.3	881.9	1201.1	1370.8	3197.1	3853.5	2694.8
77.5°	1341.8	1308.3	1154.3	991.3	908.7	716.7	852.8	931.0	1348.5	1562.9	1216.8
80°	982.4	1015.9	973.4	875.2	810.4	562.6	573.8	638.5	801.5	886.4	743.5
82.5°	622.9	685.4	750.2	674.2	614.0	444.3	397.4	422.0	547.0	580.5	330.4
85°	261.2	265.7	435.3	410.8	350.5	263.5	238.9	252.3	292.5	305.8	154.0
87.5°	100.5	98.3	154.0	142.9	109.4	75.9	75.9	84.9	116.1	107.2	49.1
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°	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8	8568.8
2.5°	8597.8	8439.3	8124.5	7733.8	7448.0	7126.5	6843.0	6639.8	6563.9	6528.2	6461.2
5°	8591.1	8278.5	7626.6	6943.4	6394.2	5831.5	5356.0	5047.9	5021.1	4815.8	4795.6
7.5°	8593.3	8115.6	7077.4	6072.7	5235.5	4659.5	4266.5	4163.8	4041.1	4009.7	4025.4
10°	8600.0	7907.9	6487.9	5210.9	4400.5	4023.1	3875.8	3835.6	3840.1	3853.5	3855.7
12.5°	8608.9	7707.0	5876.3	4556.7	3931.6	3775.3	3759.7	3795.4	3833.4	3862.4	3869.1
15°	8620.1	7477.0	5280.2	4029.9	3697.2	3683.8	3735.1	3795.4	3849.0	3891.4	3898.2
17.5°	8606.7	7209.1	4780.1	3706.2	3567.7	3632.5	3717.3	3793.2	3842.3	3882.5	3887.0
20°	8575.5	6910.0	4297.8	3478.4	3487.3	3592.2	3683.8	3755.3	3808.8	3828.9	3844.5
22.5°	8454.9	6552.7	3878.0	3302.1	3391.3	3536.5	3645.9	3688.2	3628.0	3585.6	3596.7
25°	8249.5	6088.4	3487.3	3159.2	3304.3	3458.4	3569.9	3467.3	3418.1	3400.3	3409.2
27.5°	7992.8	5579.3	3192.6	3009.5	3192.6	3371.3	3340.0	3322.1	3299.8	3270.7	3277.5
30°	7715.9	5081.4	2942.6	2893.5	3072.1	3174.8	3188.1	3217.2	3192.6	3148.0	3165.8
32.5°	7459.2	4612.6	2752.8	2795.2	2987.2	2971.6	3072.1	3105.5	2991.7	2842.1	2848.8
35°	7240.4	4177.2	2609.9	2699.2	2842.1	2848.8	2949.2	2833.2	2710.4	2638.9	2643.4
37.5°	7075.2	3837.9	2516.2	2616.6	2656.8	2741.7	2688.0	2627.7	2612.2	2563.1	2565.3
40°	6976.9	3541.0	2455.9	2551.9	2545.1	2603.2	2431.3	2491.6	2513.9	2498.3	2500.5
42.5°	6878.7	3331.0	2393.4	2462.5	2460.3	2346.5	2308.5	2359.9	2417.9	2424.6	2420.2
45°	6800.5	3168.1	2328.6	2326.4	2371.0	2192.4	2181.3	2212.5	2295.1	2335.3	2333.1
47.5°	6713.4	3031.9	2230.4	2167.9	2181.3	2096.4	2078.6	2091.9	2192.4	2257.2	2275.0
50°	6604.1	2895.7	2107.6	2022.7	1966.9	2007.1	2011.6	2013.8	2114.3	2187.9	2203.6
52.5°	6517.0	2793.0	1966.9	1904.4	1837.5	1926.7	1960.2	1964.7	2025.0	2085.3	2096.4
55°	6568.4	2734.9	1828.5	1783.8	1723.5	1844.1	1908.9	1917.8	1931.2	1975.9	1982.6
57.5°	6722.4	2748.3	1716.9	1658.9	1614.2	1745.9	1855.3	1862.0	1853.0	1906.7	1915.6
60°	6769.3	2741.7	1634.3	1520.4	1493.7	1640.9	1777.2	1790.6	1788.3	1866.4	1882.1
62.5°	6572.8	2656.8	1551.7	1404.3	1386.5	1533.8	1667.8	1721.3	1732.5	1844.1	1864.2
65°	6110.7	2482.7	1442.3	1281.5	1281.5	1420.0	1562.9	1636.5	1667.8	1817.3	1839.7
67.5°	5501.1	2277.3	1330.6	1176.6	1172.2	1310.5	1451.2	1527.1	1576.3	1779.4	1792.8
70°	4565.7	2000.4	1192.2	1062.7	1062.7	1187.7	1315.0	1406.6	1478.0	1708.0	1708.0
72.5°	3127.9	1663.3	1024.8	933.3	935.5	1051.6	1181.1	1283.7	1368.6	1565.1	1569.5
75°	1978.1	1299.4	841.7	794.8	803.7	913.1	1047.1	1154.3	1324.0	1547.2	1553.9
77.5°	1051.6	913.1	669.8	658.7	669.8	770.2	919.9	1067.2	1328.4	1341.8	1319.5
80°	681.0	647.5	529.2	506.8	511.3	620.7	819.3	1013.6	1067.2	1080.6	1031.4
82.5°	370.6	410.8	375.1	352.7	352.7	484.4	698.8	805.9	765.8	636.3	607.3
85°	158.5	192.0	194.3	169.7	162.9	299.2	468.9	439.8	408.6	390.7	386.3
87.5°	44.6	62.5	62.5	46.9	35.7	82.6	93.8	26.8	0.0	2.3	4.5
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)