

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: P646877

Luminaire Tested: **GALN-SA4C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16244.9 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

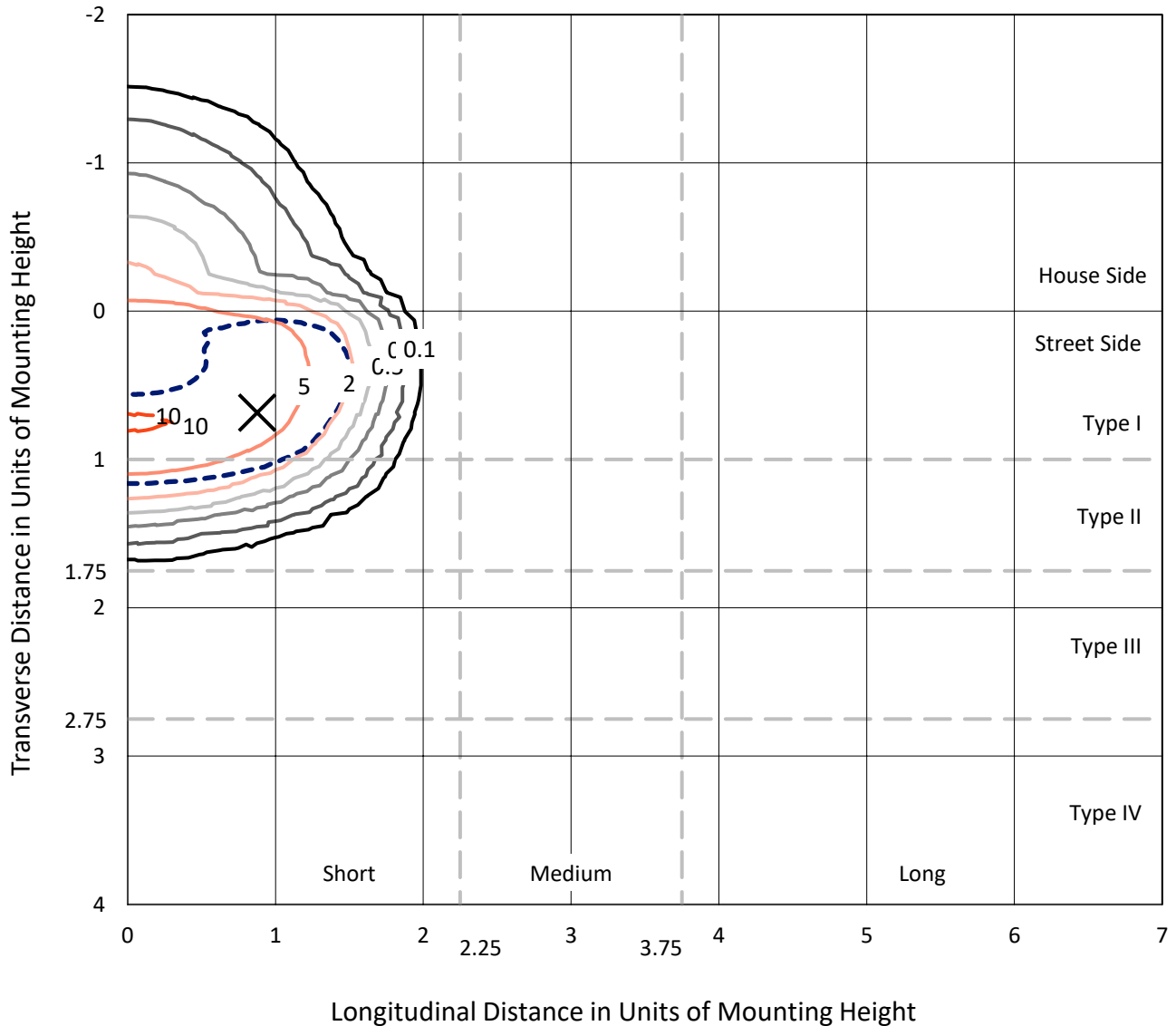
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

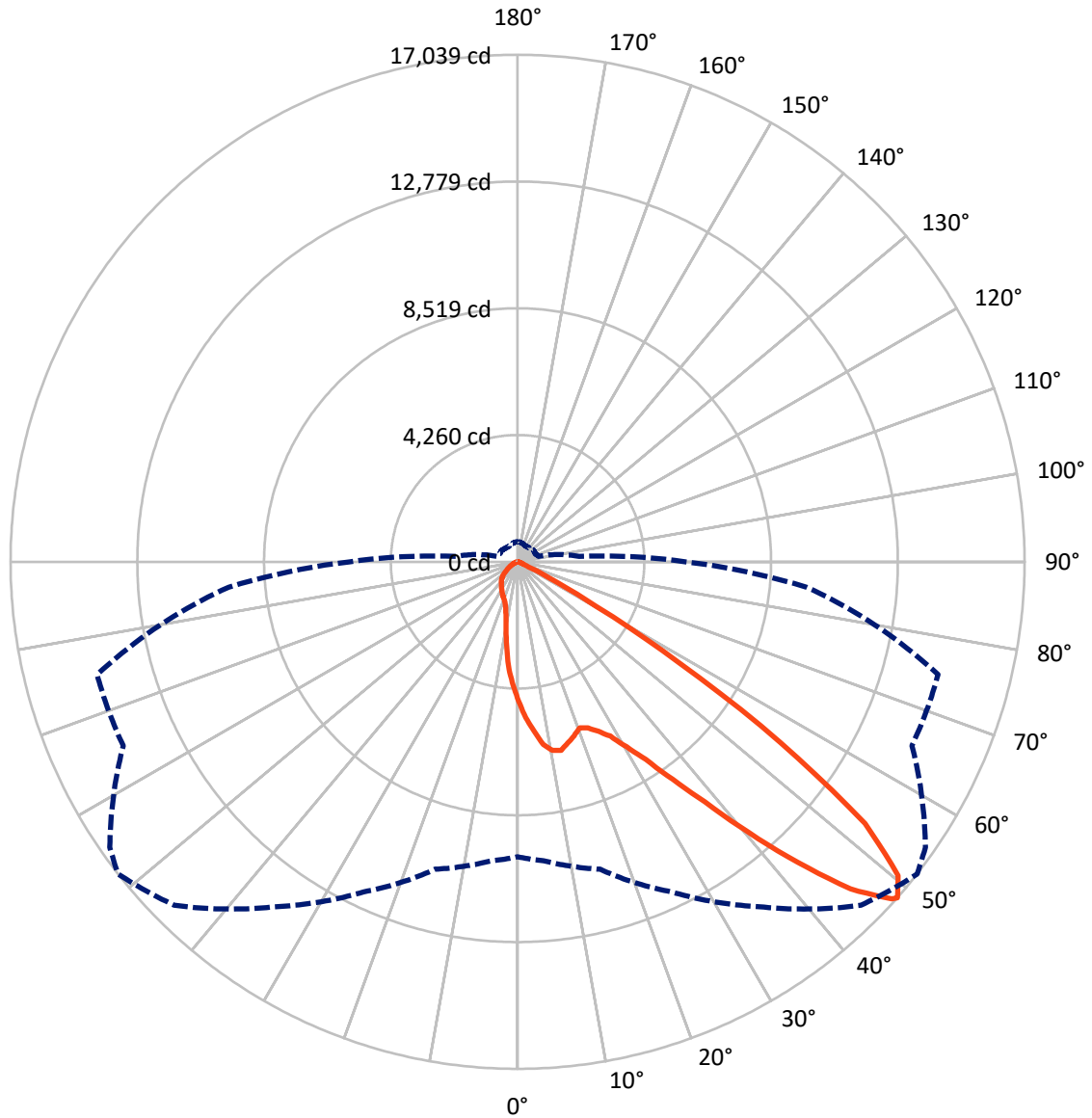
✕ Max cd  
 - - - 1/2 Max cd



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 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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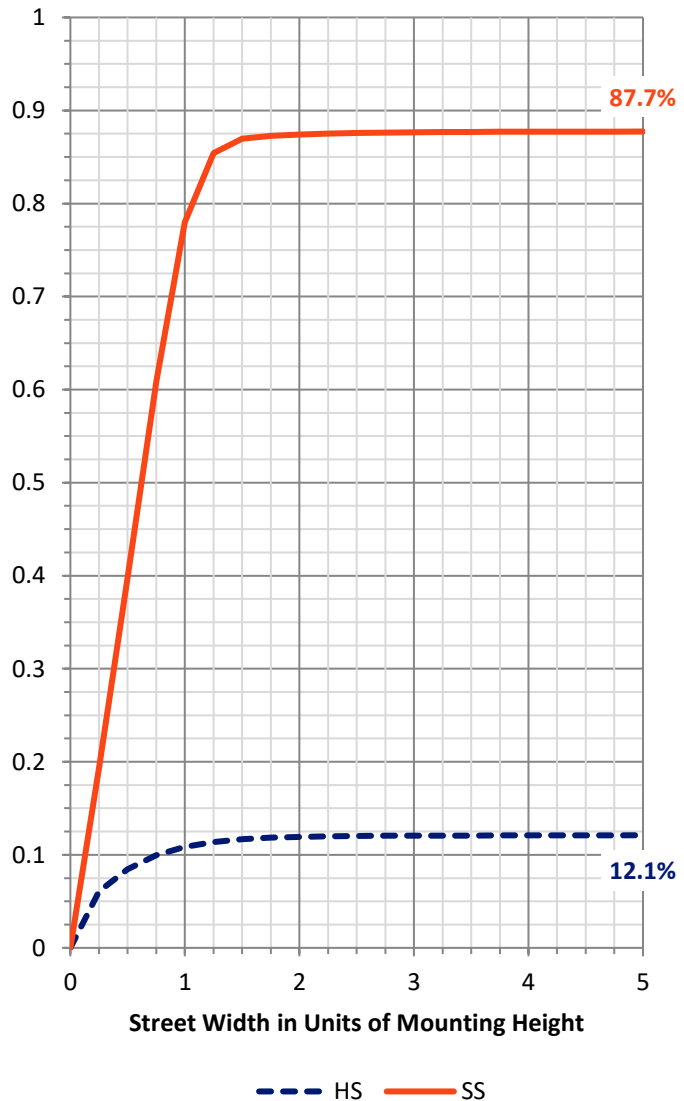
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1977.9	0.0	1977.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	14266.9	0.0	14266.9
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	16244.9	0.0	16244.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.4	2.6
10°-20°	1122.1	6.9
20°-30°	1915.9	11.8
30°-40°	3528.2	21.7
40°-50°	5479.3	33.7
50°-60°	3297.6	20.3
60°-70°	381.4	2.3
70°-80°	73.8	0.5
80°-90°	17.1	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°	16244.9	100.0
0°-180°	16244.9	100.0

**Coefficient of Utilization**

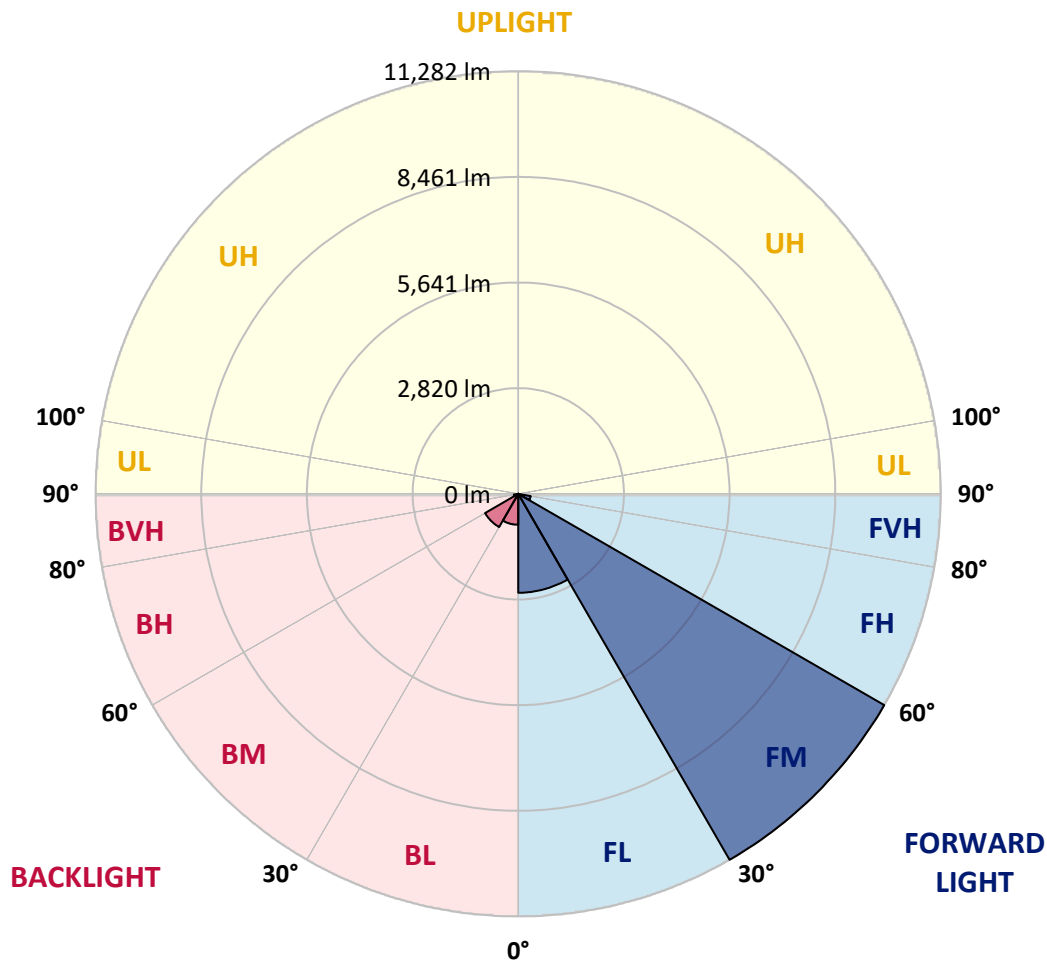


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2641.2	16.3			
FM (30°-60°)	11281.8	69.4			
FH (60°-80°)	335.8	2.1			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	826.3	5.1	B2/1000		
BM (30°-60°)	1023.4	6.3	B2/2500		
BH (60°-80°)	119.4	0.7	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3
2.5°	5685.8	5555.6	5567.4	5482.2	5432.5	5352.0	5243.0	5221.7	5103.3	4942.3	4778.9
5°	6197.4	6166.6	6206.8	6083.8	6088.5	5955.8	5700.1	5704.8	5432.5	5169.6	4916.2
7.5°	6230.6	6159.5	6199.7	6308.7	6372.6	6349.0	6204.5	6079.0	5820.8	5434.9	5065.4
10°	5579.3	5714.3	5756.9	5936.9	6192.7	6462.6	6446.0	6453.2	6237.6	5733.2	5193.3
12.5°	5188.5	5098.6	5243.0	5352.0	5738.0	6261.3	6500.5	6552.6	6569.2	6022.1	5321.2
15°	5011.0	5011.0	5034.6	5065.4	5344.8	5827.9	6315.8	6467.3	6824.9	6401.0	5522.5
17.5°	5122.2	5117.5	5150.7	5086.8	5190.9	5562.7	6145.3	6318.2	7111.5	6772.9	5681.1
20°	5460.9	5477.5	5456.2	5271.5	5278.5	5558.0	5955.8	6228.1	7305.7	7094.9	5891.9
22.5°	5932.2	5941.6	5820.8	5619.6	5560.4	5697.7	6064.8	6273.2	7462.0	7480.9	5955.8
25°	6476.8	6438.9	6415.3	6131.0	5951.1	6069.5	6311.1	6431.8	7559.1	7812.5	6138.2
27.5°	7232.3	7156.5	7012.0	6758.6	6626.0	6457.9	6630.8	6829.6	7836.1	8276.6	6337.1
30°	8347.6	8281.3	7999.5	7672.7	7324.7	7158.8	7213.3	7322.2	8335.8	8814.2	6600.0
32.5°	10026.6	9886.9	9479.6	8856.8	8383.2	7926.2	7911.9	8027.9	8783.4	9557.8	6912.6
35°	11876.2	11833.6	11234.4	10592.7	9676.2	8970.4	8982.3	9043.9	9640.6	10533.4	7322.2
37.5°	13105.2	13339.7	12958.4	12269.3	11499.6	10490.8	10235.1	10256.4	10817.6	11689.1	8061.1
40°	14054.8	13855.9	13900.9	13739.8	13214.1	12527.4	11961.4	11850.1	12179.3	12967.9	8795.2
42.5°	13640.4	13649.9	13927.0	14308.2	14438.4	14388.7	13810.9	13600.2	13344.4	14014.6	9493.8
45°	12470.5	12714.4	13074.5	14083.3	14968.9	15800.2	15686.5	15336.0	14149.5	14843.4	9896.4
47.5°	10604.5	10595.0	11184.7	12496.6	14464.5	16411.1	16927.4	16681.1	14720.2	14751.1	9813.5
48°	9915.4	10085.8	10694.4	12238.4	14144.8	16321.1	17038.6	16728.4	14623.2	14627.9	9742.5
50°	7329.3	7298.6	8056.4	9950.8	12633.9	15336.0	16569.8	16811.3	14620.8	14005.1	9245.2
52.5°	3871.9	4004.5	4556.3	6256.6	8932.5	12551.1	14616.1	14992.6	14104.6	12986.8	8530.0
55°	1645.9	1487.2	1911.1	2825.1	5025.1	8385.5	10722.9	11561.2	11925.9	11492.5	7462.0
57.5°	587.3	641.7	738.8	1063.3	2112.4	4589.4	6394.0	7045.2	8262.4	8432.9	5084.3
60°	376.5	383.7	414.4	487.8	793.3	1769.0	3033.6	3552.2	4103.9	4236.6	2372.9
62.5°	291.3	293.6	307.9	319.7	376.5	686.8	1139.0	1349.8	1402.0	1205.4	622.8
65°	243.9	246.3	251.0	251.0	267.6	322.0	397.8	438.1	426.3	421.5	352.8
67.5°	187.1	191.8	201.3	201.3	210.8	196.5	220.3	234.4	265.2	322.0	300.8
70°	146.8	149.2	156.3	161.1	161.1	142.1	158.6	172.9	194.2	239.2	236.8
72.5°	113.7	118.4	123.2	123.2	116.0	97.1	113.7	125.5	139.7	165.8	161.1
75°	87.6	87.6	90.0	73.4	56.8	49.7	68.7	82.9	104.2	108.9	90.0
77.5°	23.6	26.1	23.6	21.3	23.6	35.5	45.0	52.1	66.3	66.3	59.2
80°	0.0	2.3	7.1	14.2	23.6	33.1	40.2	45.0	52.1	56.8	54.5
82.5°	0.0	2.3	7.1	14.2	21.3	26.1	35.5	37.9	42.6	49.7	49.7
85°	0.0	2.3	4.7	9.5	14.2	16.6	16.6	14.2	14.2	11.8	9.5
87.5°	0.0	0.0	2.3	4.7	4.7	7.1	7.1	7.1	7.1	7.1	7.1
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°	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3
2.5°	4714.9	4641.5	4530.2	4355.0	4186.9	4077.9	3973.7	3857.7	3793.7	3789.0	3753.5
5°	4771.8	4606.0	4340.8	4040.0	3717.9	3440.9	3161.4	2979.1	2815.7	2725.7	2709.1
7.5°	4802.5	4587.0	4158.4	3654.0	3104.6	2652.3	2339.7	2110.0	2020.0	1953.7	1951.3
10°	4866.5	4553.9	3886.1	3142.5	2462.8	2005.8	1790.3	1686.1	1636.4	1617.4	1589.0
12.5°	4913.9	4492.3	3606.7	2616.8	1946.6	1662.4	1567.7	1544.0	1546.4	1555.8	1544.0
15°	4980.2	4437.9	3230.1	2147.9	1634.0	1496.6	1496.6	1501.4	1534.5	1539.3	1537.0
17.5°	4975.4	4331.3	2841.7	1769.0	1444.6	1425.6	1432.7	1477.7	1499.1	1506.1	1489.6
20°	5032.3	4231.9	2441.6	1510.9	1338.0	1366.4	1413.8	1425.6	1451.7	1456.4	1437.4
22.5°	5015.7	3983.2	2069.7	1307.2	1257.5	1311.9	1359.3	1373.5	1366.4	1352.2	1349.8
25°	4984.9	3770.1	1728.7	1172.2	1198.3	1257.5	1302.4	1276.4	1262.2	1264.5	1267.0
27.5°	4930.5	3500.1	1446.9	1077.5	1117.7	1205.4	1203.0	1193.5	1207.8	1195.9	1207.8
30°	4921.0	3230.1	1214.8	992.2	1058.5	1122.5	1127.2	1143.8	1160.4	1139.0	1160.4
32.5°	4935.2	2934.1	1049.1	940.1	1023.1	1025.4	1077.5	1094.1	1082.3	1034.9	1039.6
35°	5044.1	2706.8	928.3	911.7	966.2	968.6	1018.3	997.0	944.8	916.5	933.0
37.5°	5273.8	2517.3	871.5	885.7	890.4	921.2	923.5	881.0	885.7	883.3	892.8
40°	5567.4	2372.9	831.2	862.0	857.2	878.6	793.3	817.0	838.3	845.4	850.2
42.5°	5768.8	2268.7	805.2	824.1	814.6	776.7	729.4	753.1	769.6	795.7	800.5
45°	5858.7	2185.7	774.4	757.8	757.8	689.1	670.2	674.9	712.8	741.2	736.5
47.5°	5711.9	2105.3	719.9	670.2	686.8	629.9	608.6	608.6	648.9	684.4	677.3
48°	5655.1	2072.1	722.3	651.2	663.0	620.4	599.2	594.4	639.4	672.5	672.5
50°	5373.3	1949.0	660.7	599.2	575.4	570.7	556.5	561.3	589.7	620.4	620.4
52.5°	4823.9	1683.8	558.9	513.9	471.3	499.7	506.8	497.3	511.5	540.0	537.5
55°	4025.8	1293.0	447.6	426.3	393.1	423.9	438.1	426.3	412.1	433.4	433.4
57.5°	2578.9	696.2	357.6	362.3	329.2	359.9	371.8	343.3	317.3	333.9	331.5
60°	1162.8	416.8	293.6	286.6	265.2	300.8	319.7	286.6	251.0	262.9	274.7
62.5°	435.7	296.1	222.6	217.8	213.1	246.3	255.7	229.7	194.2	201.3	203.7
65°	319.7	260.5	177.6	161.1	170.5	194.2	189.5	163.4	139.7	139.7	144.5
67.5°	272.3	227.3	144.5	125.5	125.5	127.9	118.4	104.2	97.1	101.9	106.6
70°	213.1	180.0	113.7	97.1	87.6	78.1	68.7	66.3	59.2	66.3	64.0
72.5°	137.3	120.7	87.6	73.4	66.3	54.5	45.0	42.6	35.5	33.1	33.1
75°	73.4	73.4	68.7	59.2	52.1	42.6	35.5	28.4	18.9	14.2	14.2
77.5°	52.1	56.8	61.5	56.8	47.4	35.5	28.4	18.9	9.5	4.7	4.7
80°	49.7	56.8	61.5	54.5	47.4	35.5	26.1	14.2	7.1	2.3	2.3
82.5°	45.0	52.1	56.8	49.7	42.6	30.8	23.6	14.2	7.1	2.3	2.3
85°	9.5	11.8	14.2	14.2	16.6	21.3	16.6	11.8	4.7	2.3	2.3
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	4.7	4.7	2.3	2.3	2.3
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)