

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: P648454

Luminaire Tested: **GALN-SA5B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648454  
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-SA5B-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 13570.2 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

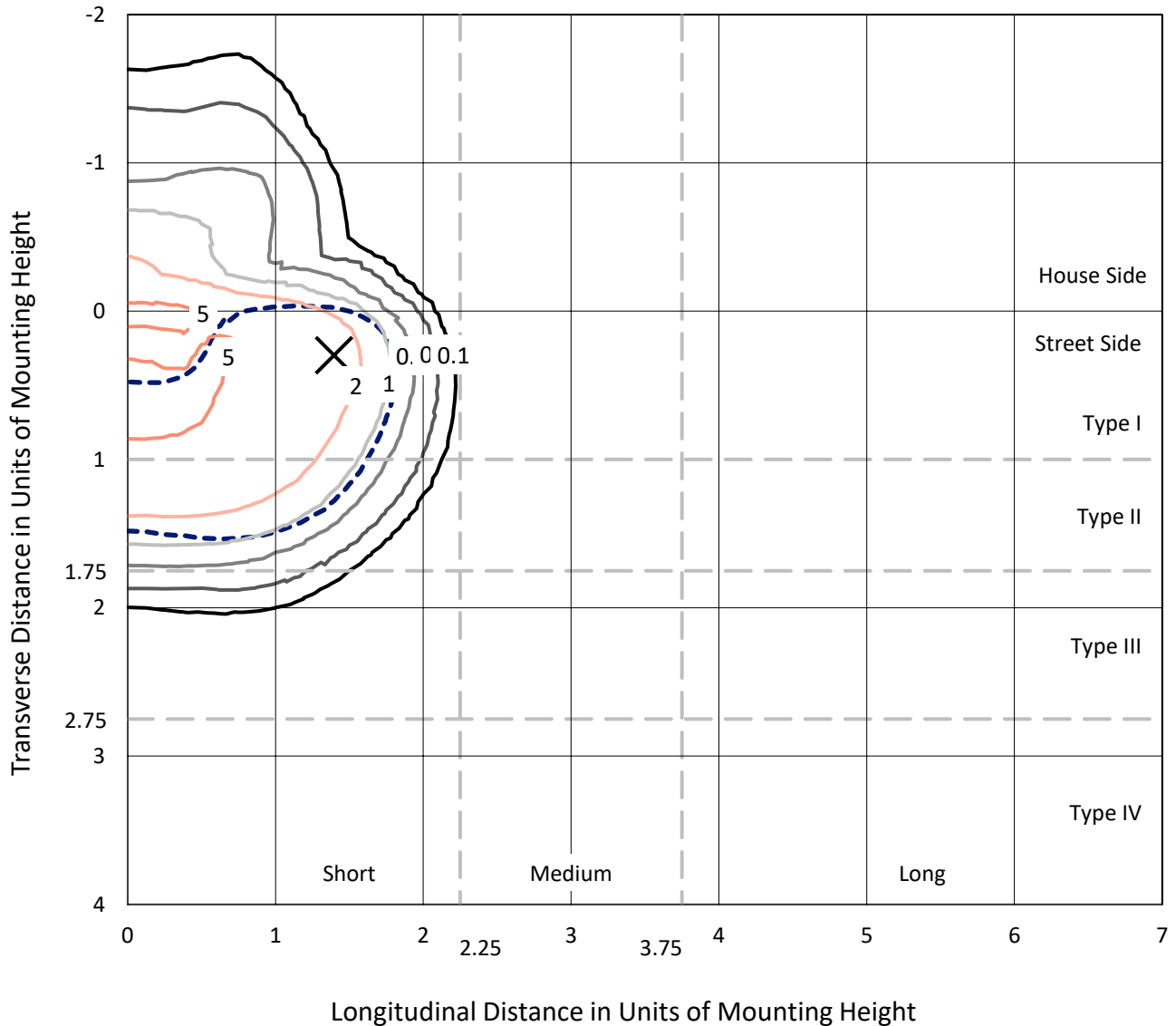
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

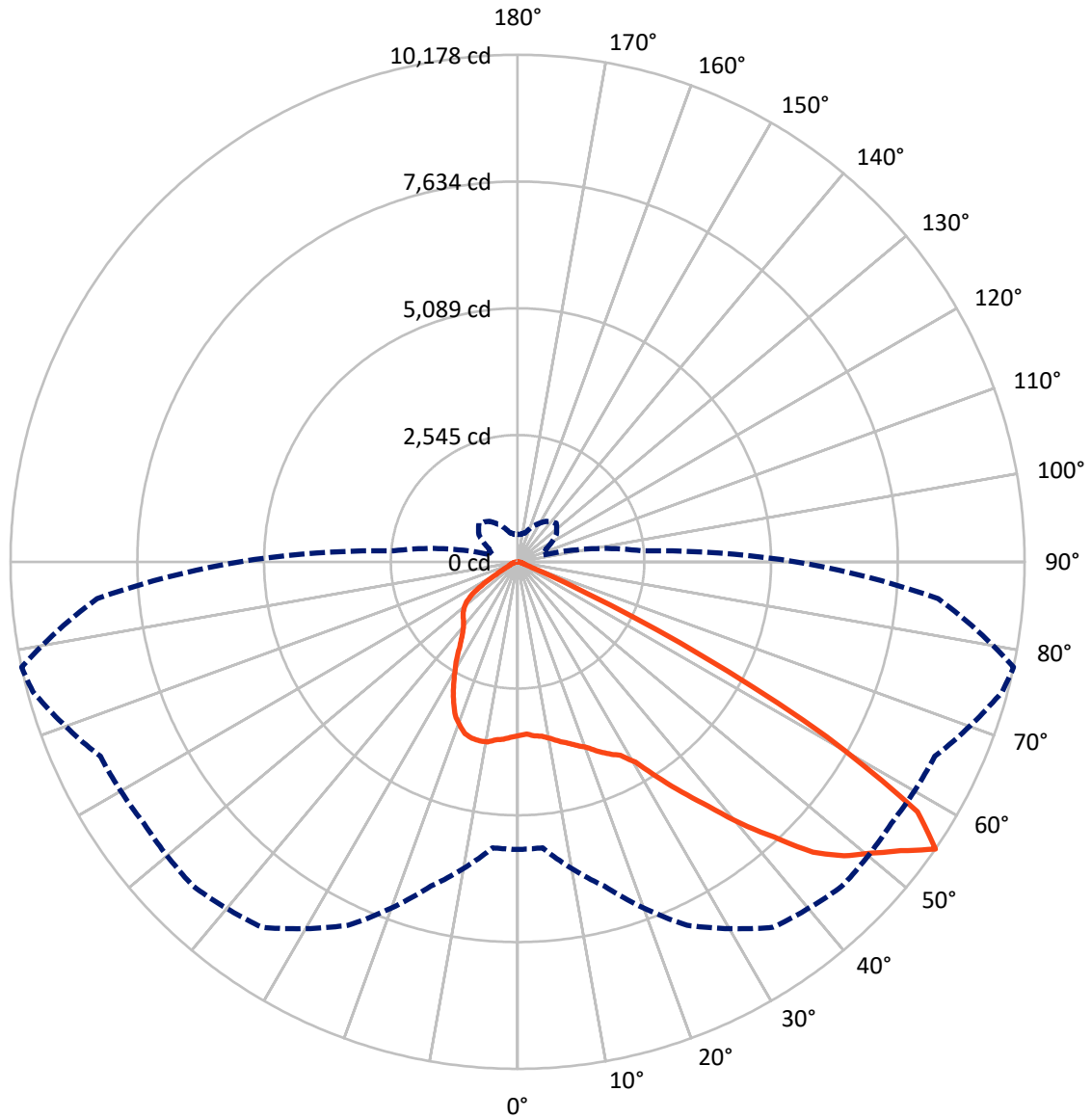
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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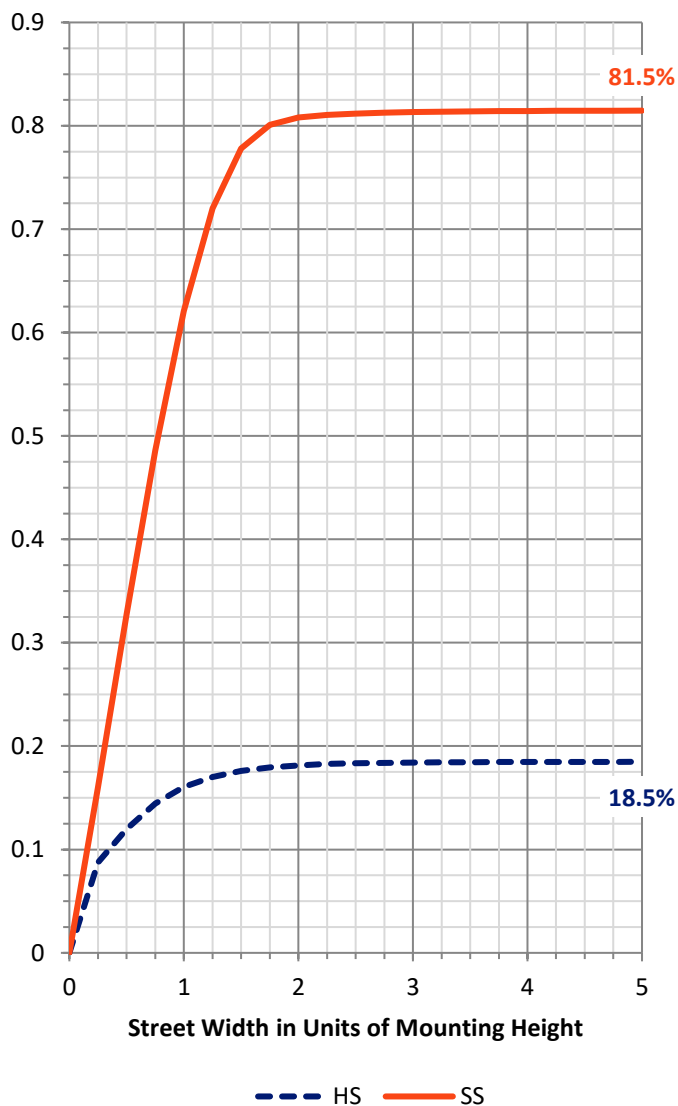
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2520.5	0.0	2520.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11049.7	0.0	11049.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13570.2	0.0	13570.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.1	2.3
10°-20°	823.3	6.1
20°-30°	1443.1	10.6
30°-40°	2379.6	17.5
40°-50°	3462.6	25.5
50°-60°	3923.5	28.9
60°-70°	1121.8	8.3
70°-80°	87.1	0.6
80°-90°	18.1	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°	13570.2	100.0
0°-180°	13570.2	100.0

**Coefficient of Utilization**



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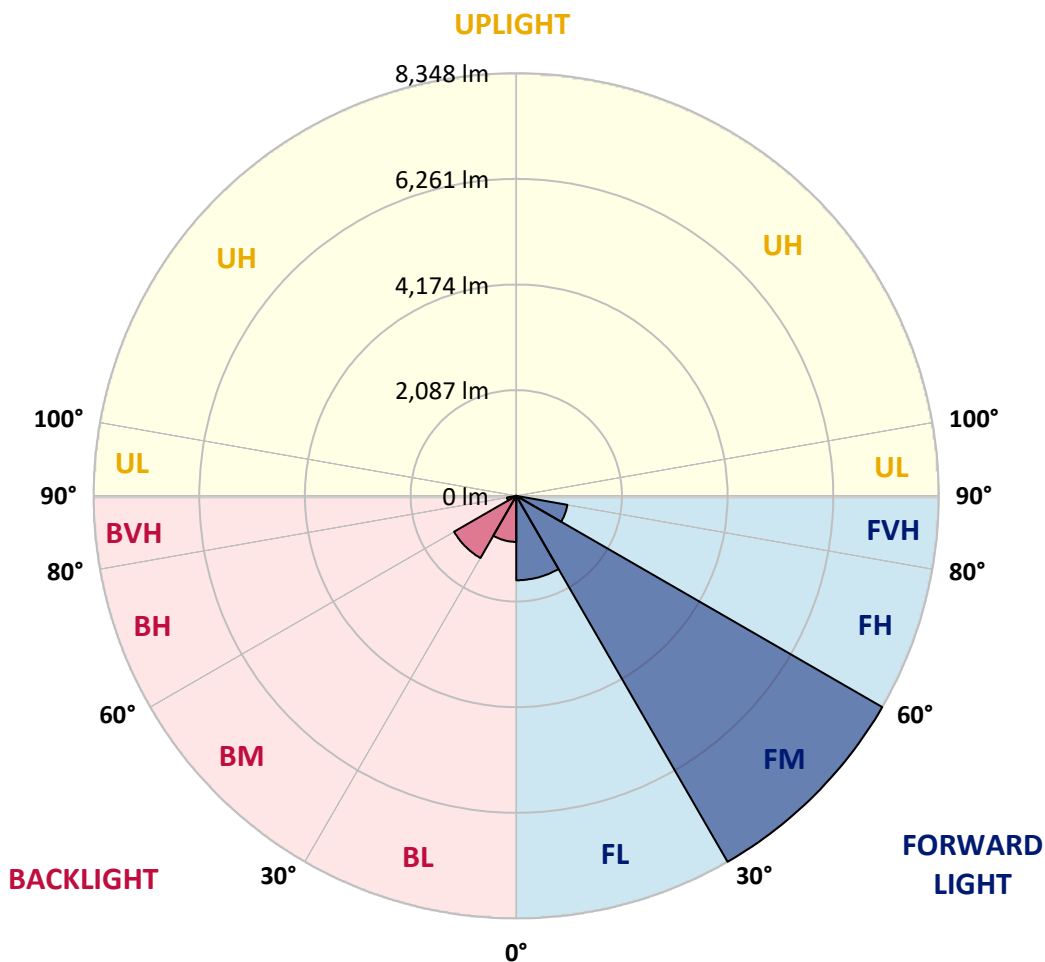
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1668.2	12.3			
FM	(30°-60°)	8347.8	61.5			
FH	(60°-80°)	1024.9	7.6			G1/1800
FVH	(80°-90°)	8.8	0.1			G0/10
BL	(0°-30°)	909.4	6.7	B2/1000		
BM	(30°-60°)	1417.8	10.4	B2/2500		
BH	(60°-80°)	184.0	1.4	B1/500		G1/500
BVH	(80°-90°)	9.3	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°	55°	65°	75°	78°	85°
0°	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9
2.5°	3280.2	3311.8	3316.6	3355.5	3353.0	3418.6	3437.9	3440.3	3484.0	3462.2	3518.0
5°	3188.1	3171.1	3163.8	3231.8	3251.1	3309.3	3357.9	3387.0	3476.8	3508.3	3566.6
7.5°	3105.5	3105.5	3110.4	3171.1	3163.8	3239.0	3289.9	3379.7	3510.7	3537.4	3607.8
10°	3025.5	2996.4	3032.8	3095.8	3149.2	3183.2	3289.9	3374.9	3527.7	3605.3	3702.4
12.5°	2984.2	2998.8	3003.7	3049.8	3108.0	3209.9	3268.1	3408.9	3649.0	3695.1	3799.4
15°	3243.9	3214.8	3144.4	3103.1	3151.7	3200.2	3345.8	3488.9	3712.1	3777.6	3894.1
17.5°	3544.7	3520.4	3462.2	3350.6	3241.5	3331.2	3445.2	3576.3	3780.0	3877.1	4049.4
20°	3937.8	3898.9	3840.7	3622.3	3527.7	3430.6	3552.0	3707.3	3891.7	3979.0	4156.1
22.5°	4406.0	4406.0	4275.0	4010.5	3814.0	3721.8	3772.7	3862.5	4015.4	4134.2	4308.9
25°	4893.7	4879.1	4760.2	4486.0	4153.7	4044.5	4102.8	4165.8	4207.1	4272.6	4389.0
27.5°	5451.7	5366.8	5216.3	4913.1	4619.5	4408.4	4471.5	4415.7	4364.8	4398.7	4566.1
30°	5830.2	5883.5	5691.9	5400.7	5124.2	4888.8	4901.0	4852.4	4619.5	4668.0	4767.5
32.5°	6223.3	6257.2	6150.5	5990.3	5713.7	5439.6	5340.1	5298.9	5124.2	5146.0	5048.9
35°	6550.8	6616.3	6521.7	6451.3	6371.3	6150.5	5876.3	6009.8	5728.3	5674.9	5422.6
37.5°	6851.6	6832.2	6943.8	6871.1	6854.1	6698.8	6398.0	6424.6	6235.3	6223.3	5932.1
40°	7120.9	7125.8	7278.6	7312.6	7244.7	6968.1	6531.4	6742.5	6895.3	6909.9	6536.2
42.5°	7344.1	7409.7	7540.7	7814.8	7712.9	7252.0	6669.7	6900.2	7467.9	7557.7	7108.8
45°	7538.3	7671.7	7834.2	8079.3	8021.1	7654.7	7014.2	7225.3	8079.3	8314.7	7647.4
47.5°	7550.4	7725.1	7902.2	8266.1	8338.9	7870.6	7370.8	7739.6	8564.5	8819.3	8040.5
50°	7501.8	7594.1	7948.3	8343.7	8508.7	8222.4	7870.6	8171.5	9035.2	9195.4	8239.4
52.5°	6926.8	6997.2	7708.1	8416.5	8814.5	8620.4	8533.0	8773.2	9515.6	9634.5	8426.3
55°	5774.4	5762.3	6740.1	8050.2	8955.2	9209.9	9156.6	9241.4	10071.3	10178.0	8472.4
57.5°	3949.8	4170.6	5015.0	6703.7	8093.9	9071.6	9127.4	8986.7	9423.4	9464.7	7385.4
60°	2130.2	2222.4	2901.7	4473.9	6162.6	7392.7	7538.3	7283.5	7249.6	7133.1	5272.2
62.5°	846.7	892.9	1278.6	2215.1	3357.9	4493.3	4806.4	4702.0	4478.8	4173.1	2729.5
65°	402.8	431.9	635.6	1036.0	1489.7	1873.0	2186.1	2283.1	1683.8	1516.4	900.1
67.5°	274.1	296.0	463.4	592.0	531.3	555.6	723.0	672.0	395.5	337.2	249.9
70°	208.7	223.2	371.2	402.8	237.8	167.4	186.8	174.7	162.6	165.0	162.6
72.5°	148.0	160.1	271.7	237.8	104.3	77.7	99.4	118.9	118.9	118.9	116.4
75°	89.7	101.9	157.7	92.2	41.3	41.3	63.1	80.1	85.0	87.4	82.5
77.5°	46.1	58.3	53.4	26.7	26.7	31.6	46.1	55.8	60.7	60.7	58.3
80°	9.7	9.7	9.7	14.6	26.7	34.0	46.1	51.0	58.3	58.3	53.4
82.5°	0.0	2.4	7.3	14.6	24.3	31.6	43.7	51.0	58.3	60.7	55.8
85°	0.0	2.4	4.9	9.7	17.0	19.4	17.0	14.6	14.6	14.6	14.6
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9	3488.9
2.5°	3522.9	3530.2	3518.0	3515.6	3505.9	3535.0	3464.6	3447.6	3491.3	3450.1	3459.8
5°	3569.0	3586.0	3564.1	3527.7	3474.3	3391.9	3321.5	3229.3	3185.6	3154.1	3149.2
7.5°	3602.9	3615.0	3593.3	3476.8	3316.6	3108.0	2952.7	2838.7	2748.9	2722.2	2678.6
10°	3741.3	3743.7	3634.5	3377.3	3064.3	2790.1	2552.3	2377.7	2287.9	2232.1	2207.8
12.5°	3833.4	3828.6	3607.8	3180.8	2763.4	2399.5	2127.8	1916.7	1834.3	1807.6	1790.6
15°	3949.8	3923.2	3544.7	2979.4	2375.2	1982.2	1737.2	1591.6	1584.3	1567.3	1584.3
17.5°	4042.1	3966.8	3452.5	2613.0	2004.1	1632.9	1472.7	1482.5	1501.8	1518.8	1521.2
20°	4192.5	4037.2	3241.5	2292.8	1659.6	1399.9	1397.5	1441.2	1489.7	1509.1	1528.5
22.5°	4306.5	4066.4	3015.8	1950.7	1378.1	1305.3	1346.5	1412.1	1448.5	1467.9	1496.9
25°	4347.8	3986.3	2715.0	1608.6	1242.2	1261.6	1324.7	1368.4	1414.5	1436.3	1424.2
27.5°	4389.0	3945.1	2355.9	1324.7	1169.4	1232.5	1285.9	1329.5	1344.1	1373.2	1392.6
30°	4488.5	3801.9	2033.1	1145.1	1133.1	1213.1	1251.9	1266.5	1305.3	1322.3	1322.3
32.5°	4568.6	3746.1	1691.0	1060.3	1128.2	1222.8	1227.7	1227.7	1232.5	1220.4	1215.5
35°	4733.5	3554.4	1385.4	1009.3	1125.8	1225.2	1237.4	1196.1	1084.5	1040.8	1028.7
37.5°	4937.4	3430.6	1159.7	997.2	1142.7	1254.4	1273.8	1118.5	972.9	902.6	890.4
40°	5184.8	3343.3	1011.7	992.3	1181.5	1322.3	1264.1	1057.8	868.6	766.7	761.9
42.5°	5473.6	3263.2	912.3	989.9	1230.1	1392.6	1254.4	1006.9	761.9	693.9	703.6
45°	5704.0	3219.6	844.3	972.9	1247.1	1433.9	1261.6	917.1	718.2	674.5	679.3
47.5°	5883.5	3127.4	788.6	943.8	1244.7	1448.5	1196.1	880.7	696.3	708.5	720.6
50°	5888.4	3003.7	718.2	880.7	1208.2	1421.8	1120.9	846.7	691.5	742.4	766.7
52.5°	5822.9	2829.0	642.9	790.9	1123.4	1329.5	1053.0	832.2	669.6	664.8	693.9
55°	5590.0	2501.5	516.8	640.5	948.7	1096.7	992.3	805.5	604.2	548.3	553.2
57.5°	4517.6	1793.0	380.9	458.5	672.0	803.0	895.3	793.3	543.5	465.8	468.2
60°	2797.4	1016.6	279.0	313.0	414.9	487.7	725.4	737.6	485.2	393.1	388.2
62.5°	1436.3	502.2	216.0	220.8	254.8	286.3	497.4	618.6	439.1	373.6	373.6
65°	480.4	247.5	189.3	169.8	169.8	177.1	300.8	429.5	371.2	313.0	313.0
67.5°	206.2	184.4	165.0	148.0	135.9	128.6	169.8	249.9	276.6	237.8	228.1
70°	160.1	155.3	143.1	123.7	106.7	97.0	99.4	128.6	157.7	152.8	148.0
72.5°	118.9	118.9	114.0	97.0	82.5	70.4	65.5	68.0	75.2	77.7	80.1
75°	82.5	85.0	85.0	75.2	60.7	51.0	43.7	36.4	29.1	24.3	21.8
77.5°	55.8	58.3	63.1	55.8	46.1	34.0	26.7	19.4	12.1	4.9	4.9
80°	48.5	55.8	60.7	55.8	48.5	36.4	26.7	14.6	7.3	0.0	0.0
82.5°	51.0	55.8	63.1	53.4	46.1	34.0	26.7	17.0	7.3	2.4	0.0
85°	12.1	12.1	14.6	17.0	21.8	24.3	19.4	12.1	7.3	2.4	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	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)