

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: P647922

Luminaire Tested: **GALN-SA5A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647922  
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-SA5A-835-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA 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: 13376.8 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

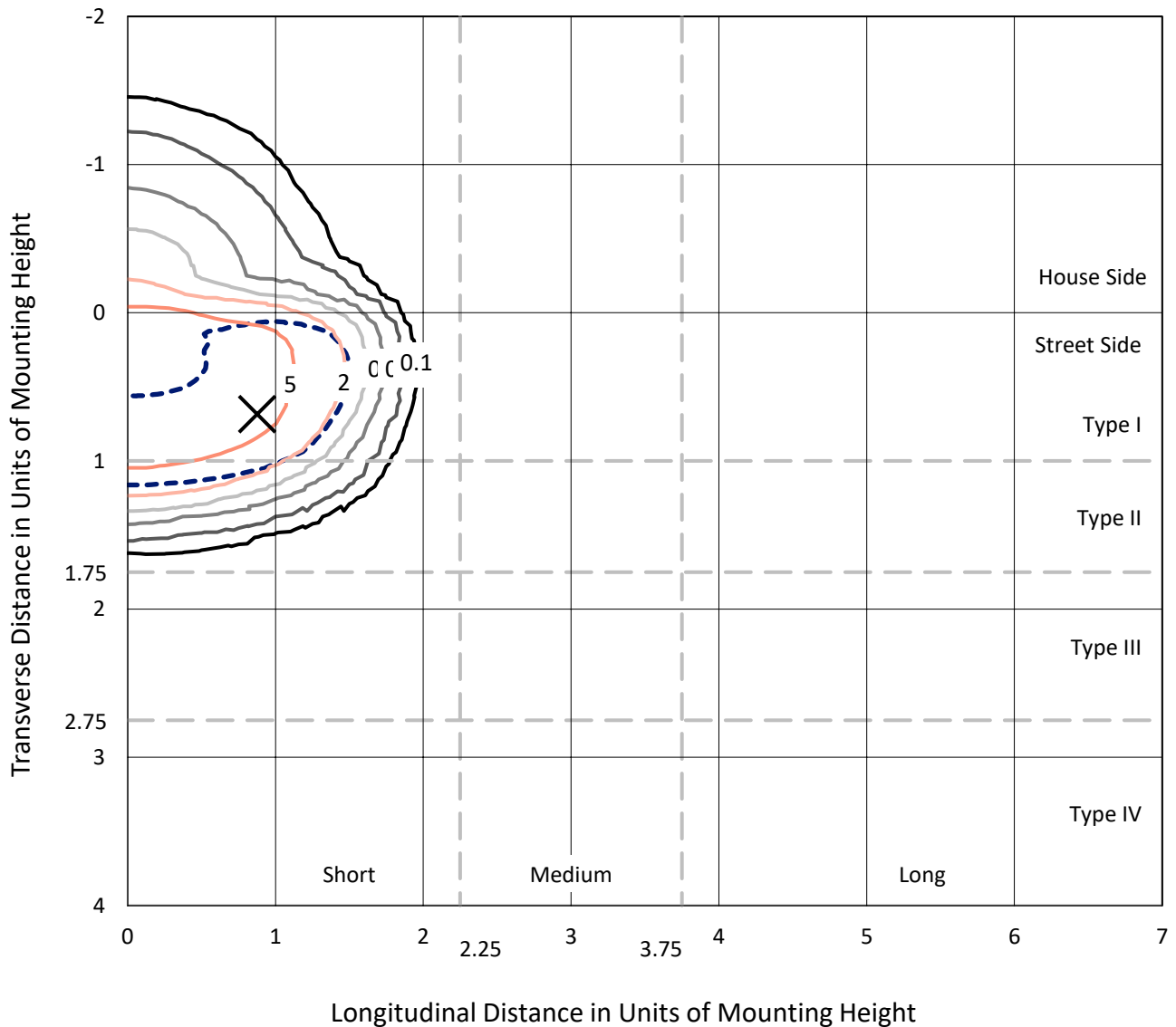
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

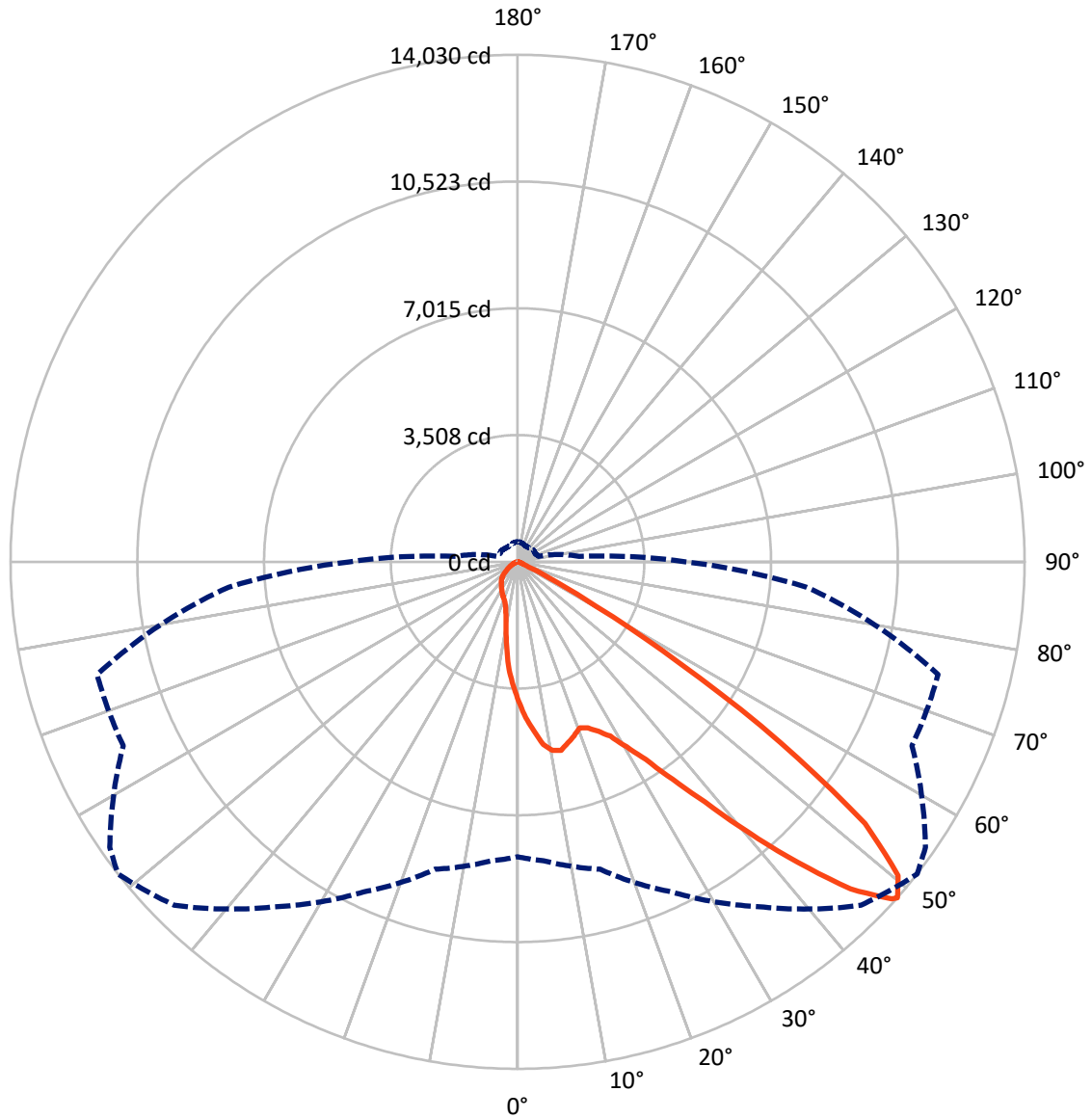
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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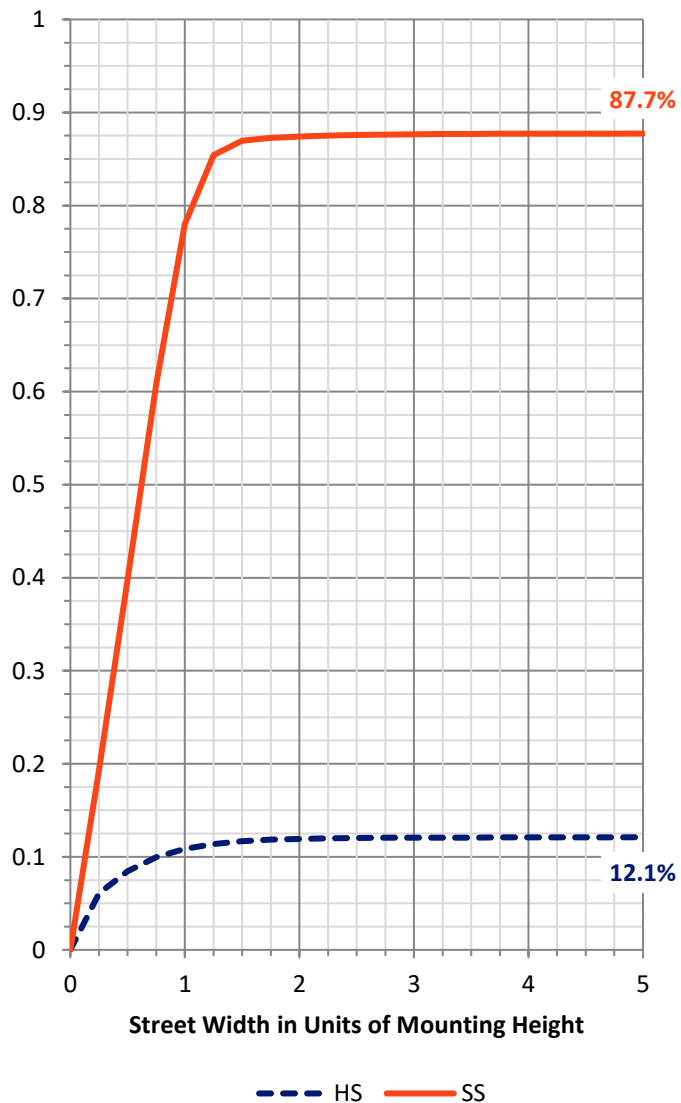
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1628.7	0.0	1628.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	11748.0	0.0	11748.0
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	13376.8	0.0	13376.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.6	2.6
10°-20°	924.0	6.9
20°-30°	1577.7	11.8
30°-40°	2905.3	21.7
40°-50°	4511.9	33.7
50°-60°	2715.4	20.3
60°-70°	314.1	2.3
70°-80°	60.8	0.5
80°-90°	14.1	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°	13376.8	100.0
0°-180°	13376.8	100.0

**Coefficient of Utilization**

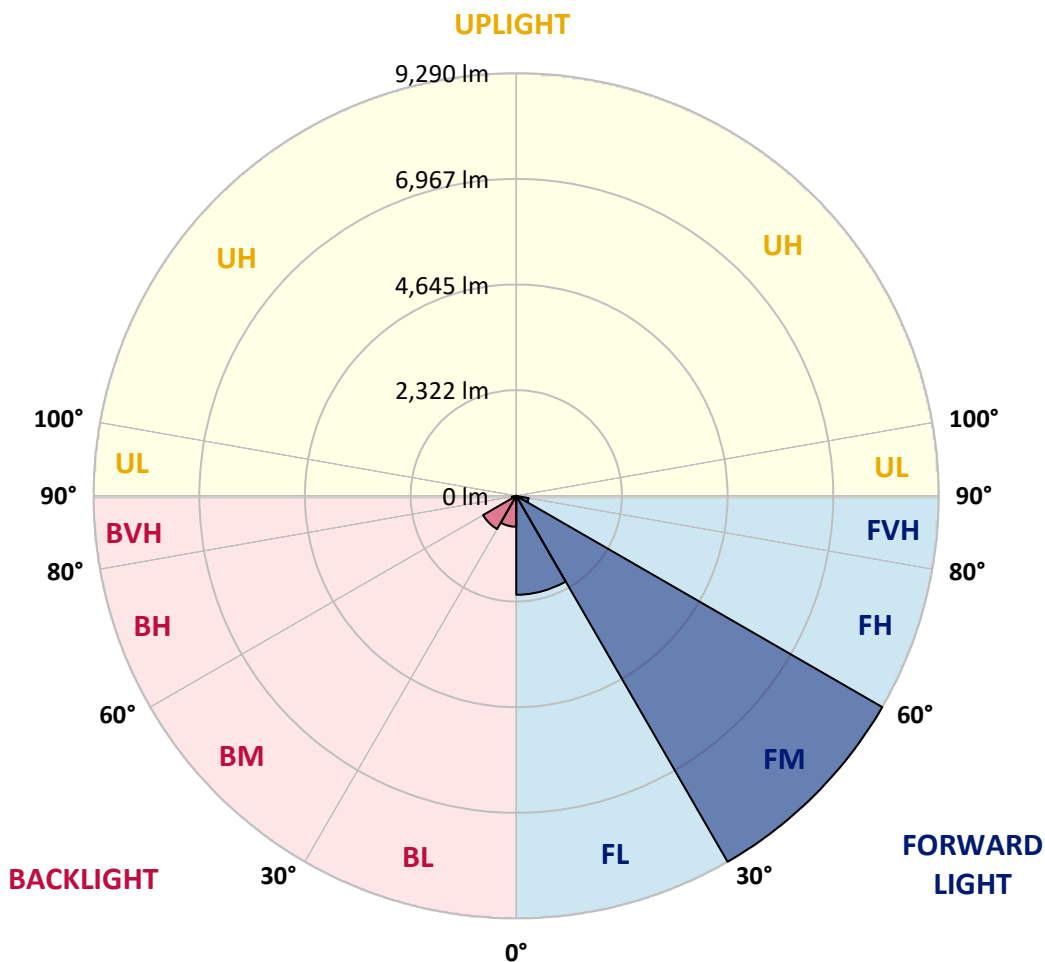


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2174.9	16.3			
FM (30°-60°)	9289.9	69.4			
FH (60°-80°)	276.6	2.1			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	680.4	5.1	B2/1000		
BM (30°-60°)	842.7	6.3	B1/1000		
BH (60°-80°)	98.3	0.7	B0/110		G0/110
BVH (80°-90°)	7.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	4682.0	4574.8	4584.5	4514.3	4473.4	4407.0	4317.3	4299.8	4202.3	4069.7	3935.1
5°	5103.2	5077.8	5111.0	5009.6	5013.5	4904.3	4693.7	4697.6	4473.4	4256.9	4048.3
7.5°	5130.5	5072.0	5105.2	5194.9	5247.5	5228.0	5109.1	5005.7	4793.1	4475.3	4171.1
10°	4594.3	4705.4	4740.5	4888.7	5099.3	5321.6	5308.0	5313.8	5136.3	4721.0	4276.4
12.5°	4272.5	4198.4	4317.3	4407.0	4724.9	5155.8	5352.8	5395.7	5409.4	4958.9	4381.7
15°	4126.3	4126.3	4145.8	4171.1	4401.2	4799.0	5200.7	5325.5	5620.0	5270.9	4547.4
17.5°	4217.9	4214.0	4241.3	4188.7	4274.5	4580.6	5060.3	5202.6	5855.9	5577.1	4678.1
20°	4496.8	4510.4	4492.9	4340.7	4346.6	4576.7	4904.3	5128.6	6015.8	5842.3	4851.6
22.5°	4884.8	4892.6	4793.1	4627.4	4578.7	4691.7	4994.0	5165.6	6144.5	6160.1	4904.3
25°	5333.3	5302.1	5282.6	5048.6	4900.4	4997.9	5196.8	5296.3	6224.5	6433.1	5054.4
27.5°	5955.3	5892.9	5774.0	5565.3	5456.2	5317.7	5460.1	5623.8	6452.6	6815.3	5218.2
30°	6873.8	6819.2	6587.1	6318.0	6031.4	5894.9	5939.8	6029.5	6864.1	7257.9	5434.7
32.5°	8256.4	8141.3	7806.0	7293.1	6903.1	6526.7	6515.0	6610.6	7232.6	7870.2	5692.1
35°	9779.4	9744.3	9250.9	8722.5	7967.8	7386.7	7396.5	7447.1	7938.5	8673.7	6029.5
37.5°	10791.4	10984.5	10670.5	10103.0	9469.3	8638.6	8428.0	8445.5	8907.7	9625.3	6637.9
40°	11573.4	11409.6	11446.6	11314.0	10881.1	10315.6	9849.5	9757.9	10029.0	10678.3	7242.4
42.5°	11232.1	11239.9	11468.1	11782.0	11889.3	11848.4	11372.5	11198.9	10988.4	11540.2	7817.6
45°	10268.8	10469.6	10766.1	11596.8	12326.1	13010.6	12916.9	12628.3	11651.4	12222.7	8149.2
47.5°	8732.2	8724.4	9210.0	10290.3	11910.8	13513.6	13938.7	13735.9	12121.3	12146.7	8080.9
48°	8164.7	8305.1	8806.3	10077.7	11647.4	13439.6	14030.4	13774.9	12041.4	12045.3	8022.4
50°	6035.3	6010.0	6634.0	8194.0	10403.3	12628.3	13644.3	13843.2	12039.4	11532.4	7612.9
52.5°	3188.3	3297.4	3751.8	5152.0	7355.5	10335.1	12035.5	12345.6	11614.3	10693.9	7024.0
55°	1355.3	1224.6	1573.7	2326.4	4137.9	6905.0	8829.7	9520.0	9820.3	9463.4	6144.5
57.5°	483.6	528.4	608.4	875.6	1739.4	3779.1	5265.0	5801.3	6803.6	6944.0	4186.7
60°	310.1	315.9	341.2	401.7	653.3	1456.7	2498.0	2925.1	3379.3	3488.6	1953.9
62.5°	239.8	241.8	253.5	263.2	310.1	565.5	938.0	1111.5	1154.4	992.5	512.9
65°	200.8	202.8	206.7	206.7	220.3	265.2	327.6	360.7	351.0	347.1	290.6
67.5°	154.0	157.9	165.8	165.8	173.5	161.8	181.3	193.1	218.4	265.2	247.7
70°	120.9	122.9	128.7	132.6	132.6	117.0	130.7	142.3	159.9	196.9	195.0
72.5°	93.6	97.5	101.4	101.4	95.5	79.9	93.6	103.4	115.0	136.5	132.6
75°	72.1	72.1	74.1	60.4	46.8	41.0	56.5	68.3	85.8	89.7	74.1
77.5°	19.5	21.5	19.5	17.5	19.5	29.3	37.0	42.9	54.6	54.6	48.8
80°	0.0	2.0	5.9	11.7	19.5	27.3	33.1	37.0	42.9	46.8	44.9
82.5°	0.0	2.0	5.9	11.7	17.5	21.5	29.3	31.2	35.1	41.0	41.0
85°	0.0	2.0	3.9	7.8	11.7	13.6	13.6	11.7	11.7	9.8	7.8
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0	3863.0
2.5°	3882.5	3822.1	3730.4	3586.1	3447.6	3357.9	3272.2	3176.6	3123.9	3120.0	3090.8
5°	3929.3	3792.8	3574.4	3326.7	3061.5	2833.4	2603.2	2453.1	2318.5	2244.5	2230.8
7.5°	3954.6	3777.2	3424.2	3008.9	2556.5	2184.0	1926.6	1737.5	1663.4	1608.8	1606.8
10°	4007.3	3749.9	3200.0	2587.7	2028.0	1651.7	1474.2	1388.4	1347.5	1331.9	1308.5
12.5°	4046.3	3699.2	2969.9	2154.7	1602.9	1368.9	1290.9	1271.4	1273.4	1281.1	1271.4
15°	4100.9	3654.3	2659.9	1768.6	1345.5	1232.4	1232.4	1236.3	1263.6	1267.5	1265.6
17.5°	4097.0	3566.6	2340.0	1456.7	1189.5	1173.9	1179.7	1216.8	1234.4	1240.2	1226.6
20°	4143.8	3484.7	2010.5	1244.1	1101.8	1125.2	1164.2	1173.9	1195.3	1199.2	1183.7
22.5°	4130.2	3279.9	1704.4	1076.4	1035.4	1080.3	1119.3	1131.0	1125.2	1113.4	1111.5
25°	4104.8	3104.4	1423.5	965.3	986.7	1035.4	1072.5	1051.1	1039.4	1041.3	1043.3
27.5°	4059.9	2882.1	1191.5	887.3	920.4	992.5	990.6	982.8	994.5	984.8	994.5
30°	4052.1	2659.9	1000.4	817.1	871.6	924.3	928.2	941.9	955.5	938.0	955.5
32.5°	4063.8	2416.1	863.9	774.2	842.4	844.4	887.3	900.9	891.1	852.1	856.1
35°	4153.6	2228.9	764.4	750.7	795.6	797.6	838.5	821.0	778.1	754.7	768.3
37.5°	4342.7	2072.8	717.6	729.3	733.2	758.6	760.5	725.4	729.3	727.3	735.2
40°	4584.5	1953.9	684.4	709.8	705.9	723.5	653.3	672.8	690.3	696.2	700.1
42.5°	4750.2	1868.1	663.0	678.6	670.8	639.6	600.6	620.1	633.8	655.2	659.1
45°	4824.4	1799.9	637.7	624.0	624.0	567.4	551.9	555.8	586.9	610.3	606.4
47.5°	4703.5	1733.6	592.8	551.9	565.5	518.7	501.1	501.1	534.3	563.5	557.7
48°	4656.7	1706.2	594.8	536.3	546.0	510.9	493.4	489.5	526.5	553.8	553.8
50°	4424.6	1604.8	544.0	493.4	473.9	470.0	458.3	462.1	485.5	510.9	510.9
52.5°	3972.2	1386.5	460.2	423.1	388.1	411.5	417.3	409.5	421.2	444.6	442.6
55°	3315.1	1064.7	368.6	351.0	323.7	349.1	360.7	351.0	339.3	356.9	356.9
57.5°	2123.6	573.3	294.5	298.3	271.1	296.4	306.2	282.7	261.3	275.0	273.0
60°	957.5	343.2	241.8	235.9	218.4	247.7	263.2	235.9	206.7	216.4	226.2
62.5°	358.8	243.7	183.3	179.4	175.5	202.8	210.6	189.2	159.9	165.8	167.7
65°	263.2	214.5	146.3	132.6	140.4	159.9	156.0	134.5	115.0	115.0	118.9
67.5°	224.3	187.2	118.9	103.4	103.4	105.3	97.5	85.8	79.9	83.9	87.8
70°	175.5	148.2	93.6	79.9	72.1	64.4	56.5	54.6	48.8	54.6	52.6
72.5°	113.1	99.4	72.1	60.4	54.6	44.9	37.0	35.1	29.3	27.3	27.3
75°	60.4	60.4	56.5	48.8	42.9	35.1	29.3	23.4	15.6	11.7	11.7
77.5°	42.9	46.8	50.7	46.8	39.0	29.3	23.4	15.6	7.8	3.9	3.9
80°	41.0	46.8	50.7	44.9	39.0	29.3	21.5	11.7	5.9	2.0	2.0
82.5°	37.0	42.9	46.8	41.0	35.1	25.4	19.5	11.7	5.9	2.0	2.0
85°	7.8	9.8	11.7	11.7	13.6	17.5	13.6	9.8	3.9	2.0	2.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	2.0
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)