

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: P646969

Luminaire Tested: **GALN-SA5C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646969  
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-SA5C-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA 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: 16765.6 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

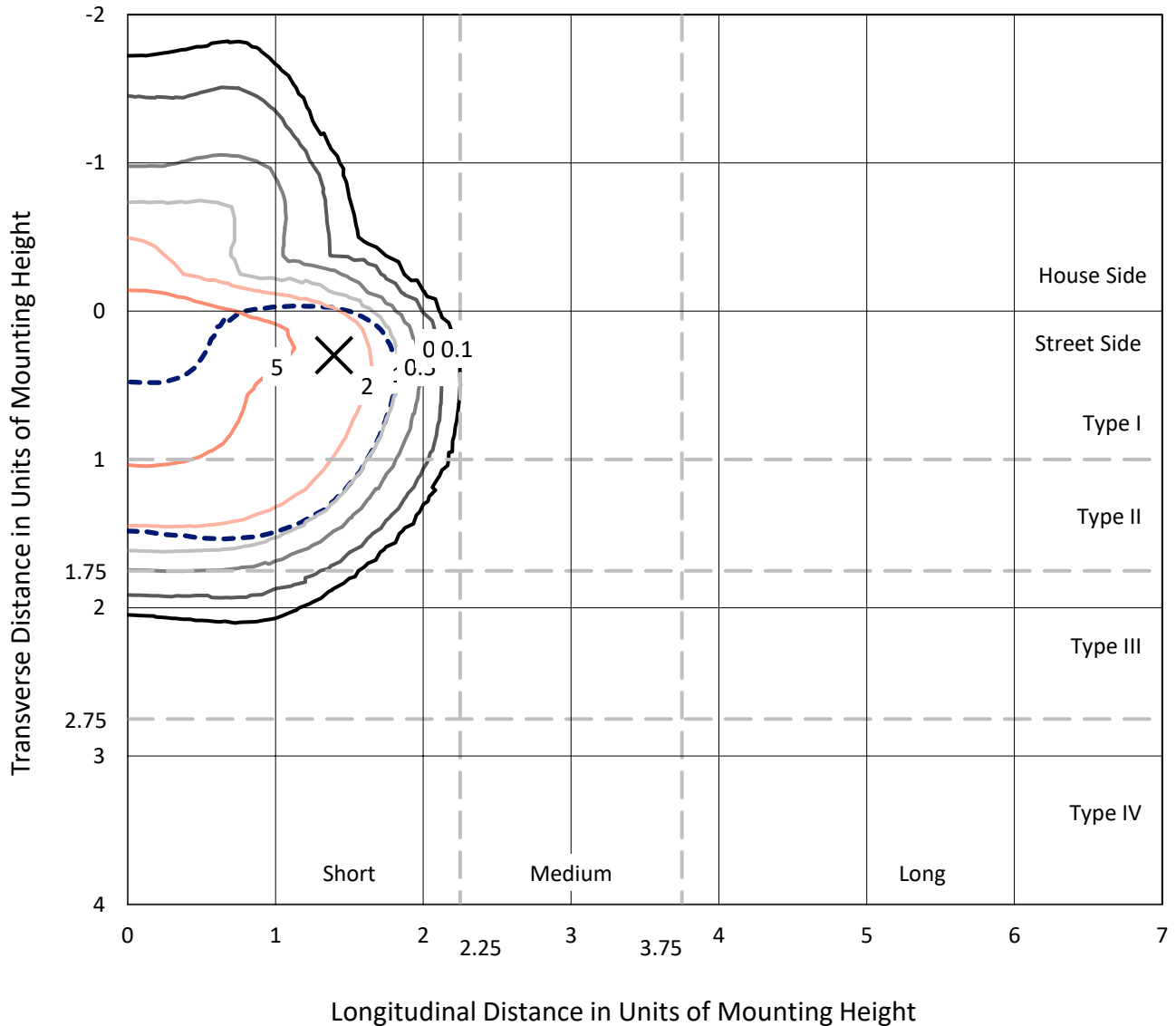
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

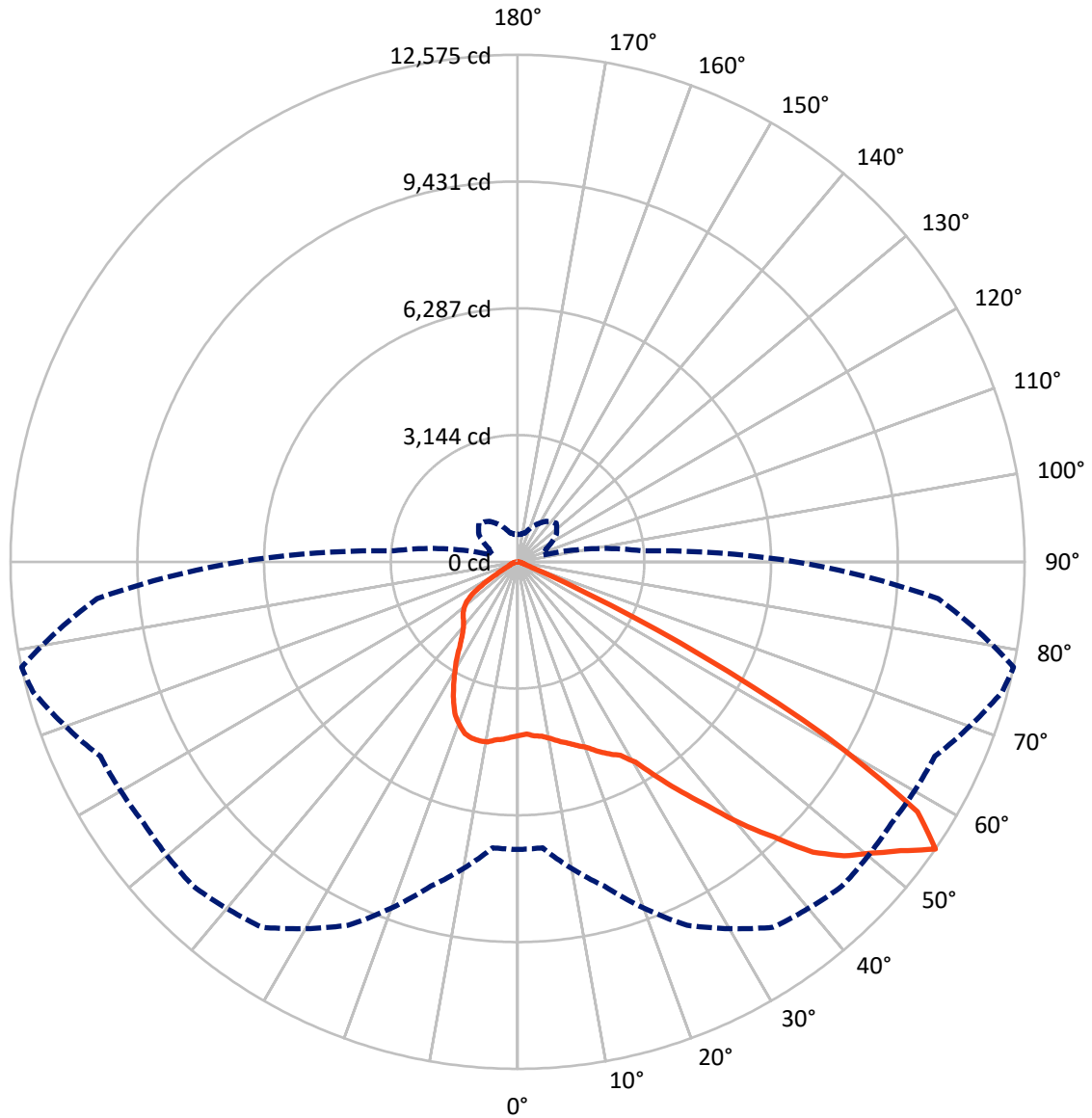
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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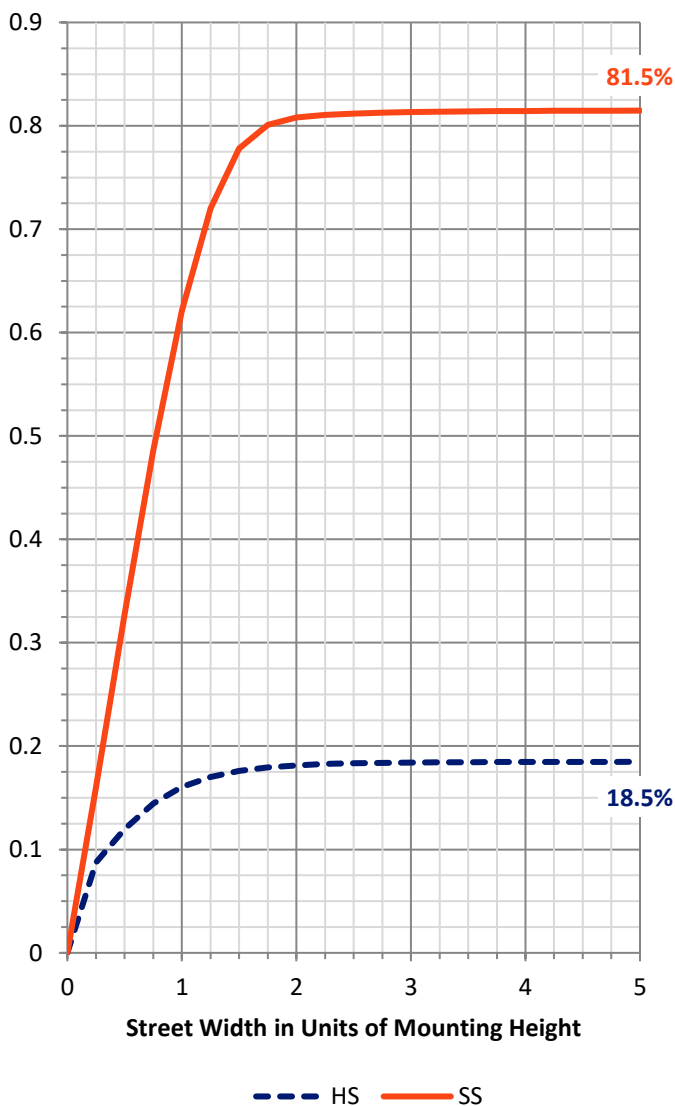
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3114.0	0.0	3114.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13651.6	0.0	13651.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16765.6	0.0	16765.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.4	2.3
10°-20°	1017.2	6.1
20°-30°	1783.0	10.6
30°-40°	2939.9	17.5
40°-50°	4277.9	25.5
50°-60°	4847.3	28.9
60°-70°	1385.9	8.3
70°-80°	107.6	0.6
80°-90°	22.4	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°	16765.6	100.0
0°-180°	16765.6	100.0

**Coefficient of Utilization**



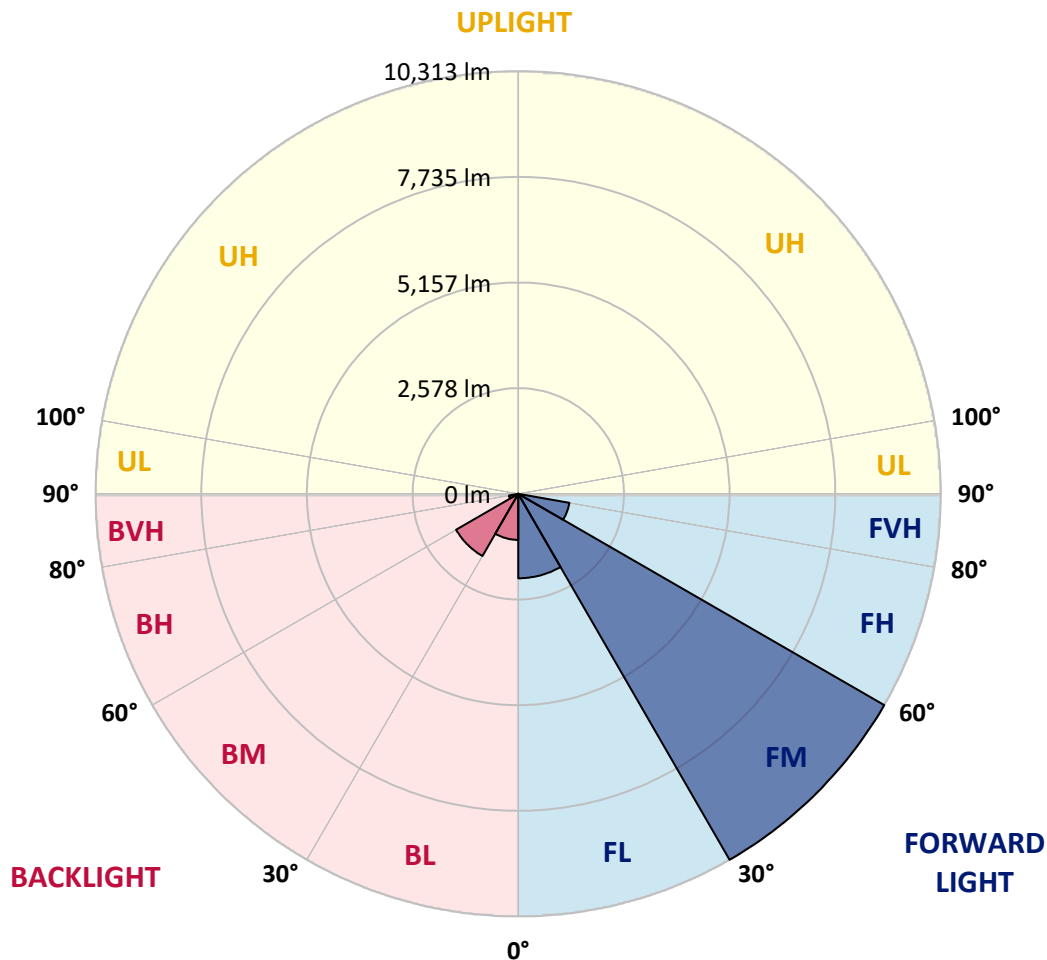
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.0	12.3			
FM (30°-60°)	10313.5	61.5			
FH (60°-80°)	1266.2	7.6			G1/1800
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	1123.5	6.7	B3/2500		
BM (30°-60°)	1751.7	10.4	B2/2500		
BH (60°-80°)	227.3	1.4	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4
2.5°	4052.7	4091.6	4097.6	4145.6	4142.6	4223.5	4247.5	4250.5	4304.5	4277.5	4346.4
5°	3938.7	3917.7	3908.8	3992.7	4016.7	4088.6	4148.6	4184.6	4295.5	4334.5	4406.3
7.5°	3836.9	3836.9	3842.8	3917.7	3908.8	4001.7	4064.6	4175.6	4337.4	4370.4	4457.3
10°	3737.9	3701.9	3746.9	3824.9	3890.8	3932.8	4064.6	4169.6	4358.4	4454.3	4574.2
12.5°	3687.0	3704.9	3711.0	3767.9	3839.8	3965.7	4037.7	4211.5	4508.3	4565.2	4694.2
15°	4007.7	3971.7	3884.8	3833.8	3893.8	3953.8	4133.6	4310.4	4586.2	4667.1	4811.1
17.5°	4379.4	4349.4	4277.5	4139.6	4004.7	4115.6	4256.5	4418.4	4670.1	4790.1	5002.9
20°	4865.0	4817.0	4745.1	4475.3	4358.4	4238.5	4388.4	4580.2	4808.0	4915.9	5134.8
22.5°	5443.5	5443.5	5281.6	4954.9	4712.1	4598.2	4661.1	4772.1	4960.9	5107.8	5323.6
25°	6046.0	6028.0	5881.1	5542.5	5131.8	4996.9	5068.8	5146.7	5197.7	5278.7	5422.5
27.5°	6735.4	6630.5	6444.7	6070.0	5707.3	5446.5	5524.5	5455.5	5392.5	5434.5	5641.4
30°	7203.1	7269.0	7032.2	6672.5	6330.8	6040.0	6055.0	5995.0	5707.3	5767.3	5890.1
32.5°	7688.7	7730.6	7598.7	7400.9	7059.2	6720.5	6597.6	6546.6	6330.8	6357.7	6237.8
35°	8093.3	8174.3	8057.4	7970.4	7871.5	7598.7	7260.0	7424.9	7077.1	7011.2	6699.5
37.5°	8465.0	8441.1	8578.9	8489.0	8468.0	8276.2	7904.5	7937.4	7703.6	7688.7	7329.0
40°	8797.7	8803.7	8992.6	9034.6	8950.6	8608.9	8069.4	8330.1	8519.0	8537.0	8075.3
42.5°	9073.5	9154.4	9316.3	9655.0	9529.1	8959.6	8240.2	8525.0	9226.4	9337.3	8782.8
45°	9313.3	9478.2	9679.1	9981.8	9909.8	9457.2	8665.9	8926.7	9981.8	10272.5	9448.2
47.5°	9328.3	9544.1	9762.9	10212.6	10302.5	9724.0	9106.5	9562.1	10581.3	10896.0	9933.8
50°	9268.4	9382.3	9819.9	10308.5	10512.3	10158.6	9724.0	10095.7	11162.8	11360.6	10179.6
52.5°	8558.0	8644.9	9523.2	10398.4	10890.0	10650.2	10542.3	10839.1	11756.3	11903.2	10410.4
55°	7134.1	7119.1	8327.1	9945.8	11063.9	11378.6	11312.7	11417.5	12442.7	12574.7	10467.4
57.5°	4880.0	5152.8	6195.9	8282.2	9999.8	11207.8	11276.7	11102.9	11642.4	11693.3	9124.5
60°	2631.8	2745.7	3585.0	5527.4	7613.7	9133.5	9313.3	8998.5	8956.6	8812.7	6513.6
62.5°	1046.2	1103.1	1579.7	2736.7	4148.6	5551.4	5938.1	5809.2	5533.5	5155.7	3372.2
65°	497.6	533.5	785.3	1280.0	1840.5	2314.1	2700.8	2820.7	2080.3	1873.5	1112.1
67.5°	338.7	365.7	572.5	731.4	656.5	686.5	893.2	830.3	488.6	416.6	308.7
70°	257.8	275.8	458.6	497.6	293.8	206.8	230.8	215.8	200.8	203.8	200.8
72.5°	182.8	197.9	335.8	293.8	128.9	95.9	122.9	146.9	146.9	146.9	143.9
75°	110.9	125.9	194.8	113.9	51.0	51.0	77.9	98.9	104.9	107.9	101.9
77.5°	56.9	72.0	65.9	33.0	33.0	39.0	56.9	68.9	74.9	74.9	72.0
80°	12.0	12.0	12.0	18.0	33.0	42.0	56.9	63.0	72.0	72.0	65.9
82.5°	0.0	3.0	9.0	18.0	30.0	39.0	53.9	63.0	72.0	74.9	68.9
85°	0.0	3.0	6.0	12.0	21.0	24.0	21.0	18.0	18.0	18.0	18.0
87.5°	0.0	0.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4
2.5°	4352.4	4361.4	4346.4	4343.4	4331.4	4367.4	4280.5	4259.5	4313.5	4262.5	4274.5
5°	4409.4	4430.4	4403.4	4358.4	4292.5	4190.5	4103.6	3989.7	3935.7	3896.8	3890.8
7.5°	4451.4	4466.3	4439.4	4295.5	4097.6	3839.8	3648.0	3507.1	3396.2	3363.2	3309.3
10°	4622.2	4625.2	4490.3	4172.5	3785.9	3447.2	3153.4	2937.6	2826.6	2757.7	2727.7
12.5°	4736.1	4730.1	4457.3	3929.7	3414.2	2964.5	2628.8	2368.0	2266.2	2233.2	2212.2
15°	4880.0	4847.0	4379.4	3681.0	2934.6	2449.0	2146.2	1966.3	1957.4	1936.4	1957.4
17.5°	4993.9	4901.0	4265.5	3228.3	2475.9	2017.3	1819.5	1831.5	1855.5	1876.5	1879.4
20°	5179.7	4987.9	4004.7	2832.7	2050.3	1729.6	1726.6	1780.5	1840.5	1864.5	1888.4
22.5°	5320.6	5023.9	3725.9	2410.0	1702.6	1612.7	1663.6	1744.5	1789.5	1813.5	1849.4
25°	5371.5	4924.9	3354.2	1987.3	1534.8	1558.7	1636.6	1690.6	1747.6	1774.5	1759.6
27.5°	5422.5	4874.0	2910.6	1636.6	1444.8	1522.8	1588.7	1642.7	1660.7	1696.6	1720.6
30°	5545.4	4697.1	2511.9	1414.8	1399.8	1498.7	1546.7	1564.7	1612.7	1633.7	1633.7
32.5°	5644.3	4628.2	2089.3	1309.9	1393.8	1510.7	1516.7	1516.7	1522.8	1507.7	1501.8
35°	5848.1	4391.4	1711.6	1247.0	1390.8	1513.8	1528.7	1477.8	1339.9	1285.9	1271.0
37.5°	6100.0	4238.5	1432.8	1232.0	1411.8	1549.7	1573.7	1381.8	1202.0	1115.1	1100.1
40°	6405.7	4130.6	1250.0	1226.0	1459.8	1633.7	1561.7	1306.9	1073.1	947.2	941.2
42.5°	6762.5	4031.7	1127.1	1223.0	1519.7	1720.6	1549.7	1244.0	941.2	857.3	869.3
45°	7047.2	3977.7	1043.1	1202.0	1540.7	1771.5	1558.7	1133.1	887.3	833.3	839.3
47.5°	7269.0	3863.8	974.2	1166.0	1537.7	1789.5	1477.8	1088.1	860.3	875.3	890.3
50°	7275.0	3711.0	887.3	1088.1	1492.8	1756.6	1384.9	1046.2	854.3	917.2	947.2
52.5°	7194.0	3495.2	794.4	977.2	1387.9	1642.7	1301.0	1028.2	827.3	821.3	857.3
55°	6906.3	3090.4	638.5	791.4	1172.0	1354.9	1226.0	995.2	746.4	677.5	683.4
57.5°	5581.4	2215.2	470.6	566.5	830.3	992.2	1106.1	980.2	671.4	575.5	578.6
60°	3456.2	1255.9	344.7	386.6	512.6	602.5	896.2	911.3	599.5	485.6	479.6
62.5°	1774.5	620.4	266.8	272.8	314.8	353.7	614.5	764.4	542.5	461.7	461.7
65°	593.5	305.8	233.8	209.8	209.8	218.8	371.7	530.6	458.6	386.6	386.6
67.5°	254.8	227.8	203.8	182.8	167.9	158.9	209.8	308.7	341.7	293.8	281.8
70°	197.9	191.8	176.9	152.8	131.9	119.9	122.9	158.9	194.8	188.9	182.8
72.5°	146.9	146.9	140.9	119.9	101.9	86.9	81.0	83.9	92.9	95.9	98.9
75°	101.9	104.9	104.9	92.9	74.9	63.0	53.9	44.9	35.9	30.0	27.0
77.5°	68.9	72.0	77.9	68.9	56.9	42.0	33.0	24.0	15.0	6.0	6.0
80°	60.0	68.9	74.9	68.9	60.0	44.9	33.0	18.0	9.0	0.0	0.0
82.5°	63.0	68.9	77.9	65.9	56.9	42.0	33.0	21.0	9.0	3.0	0.0
85°	15.0	15.0	18.0	21.0	27.0	30.0	24.0	15.0	9.0	3.0	0.0
87.5°	6.0	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	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)