

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: P650847

Luminaire Tested: **GALN-SA4C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23347 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

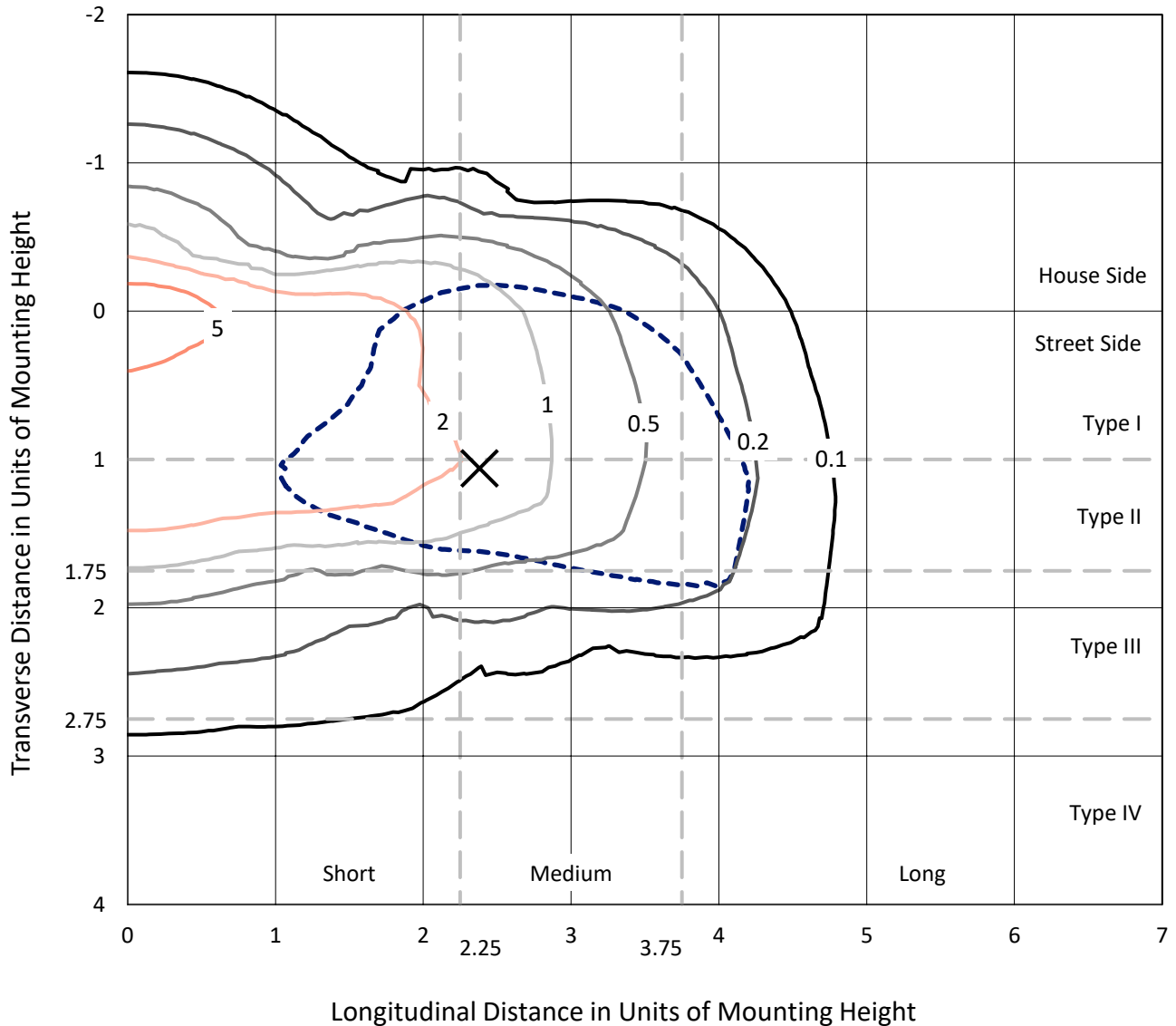
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

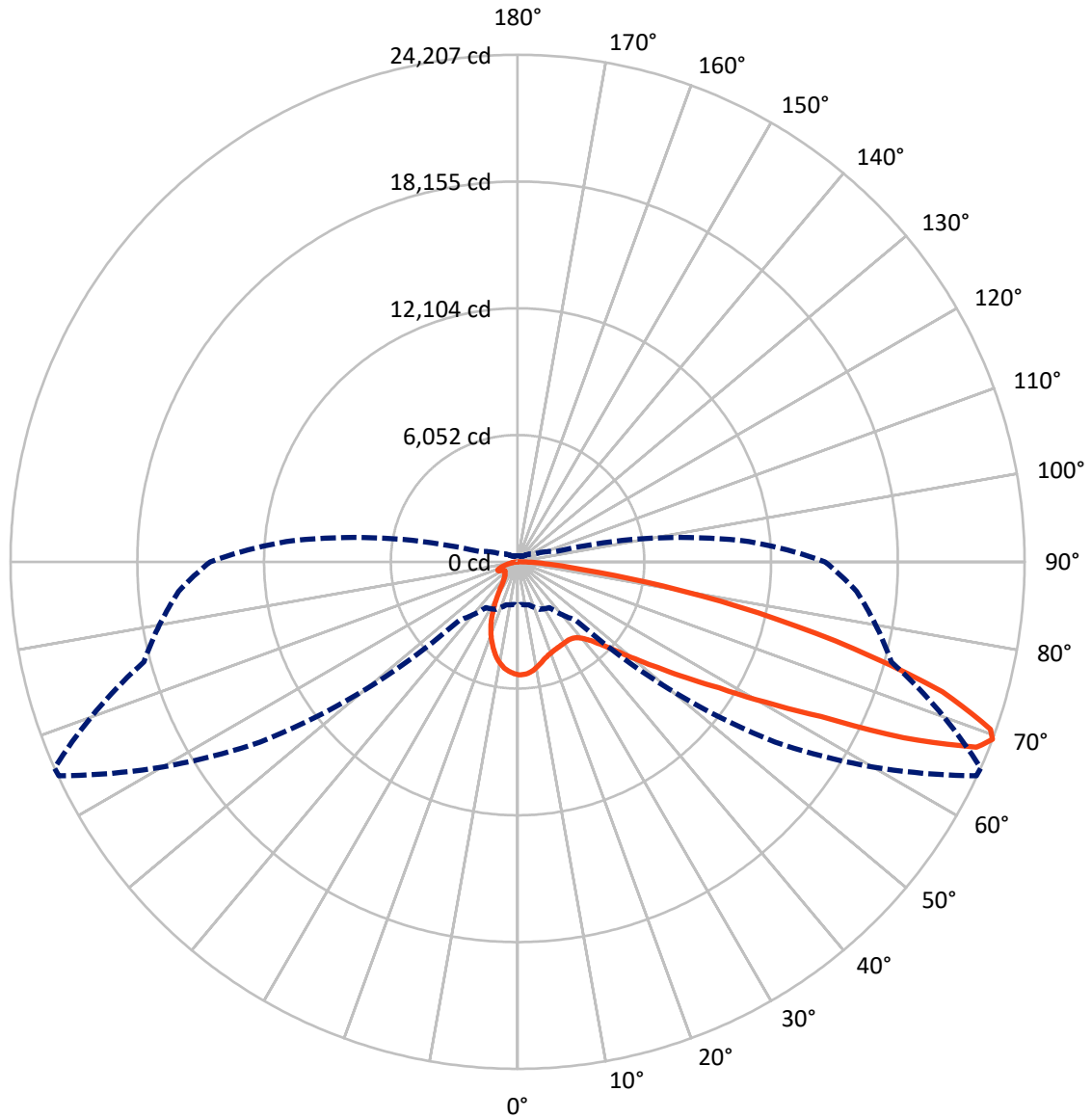
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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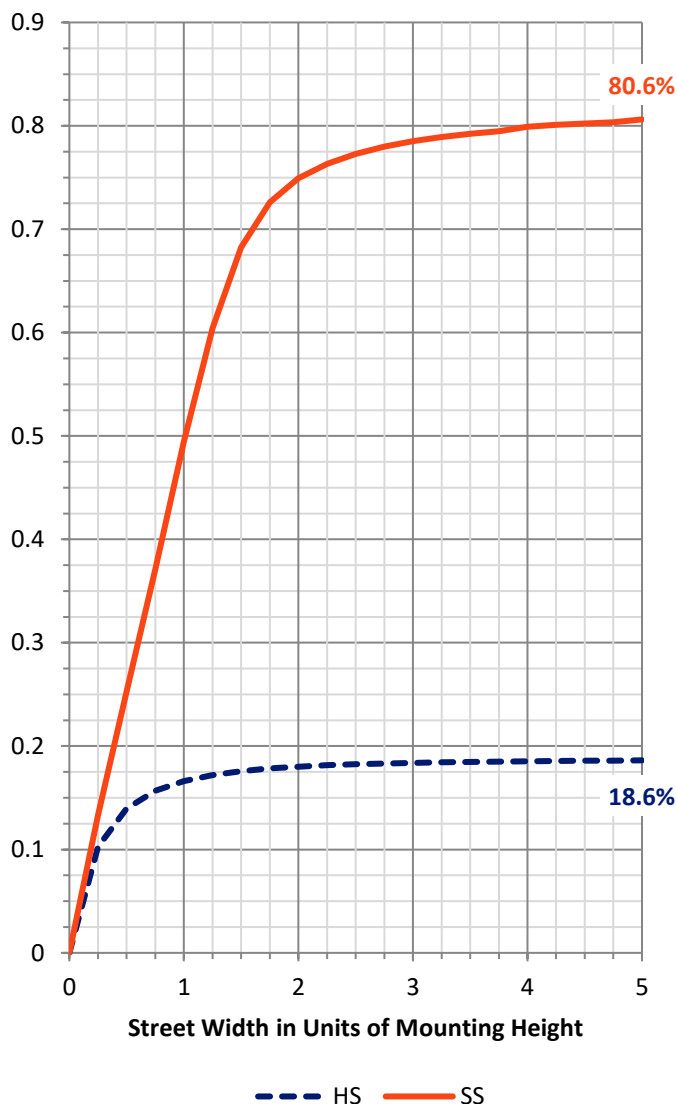
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4390.7	0.0	4390.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18956.3	0.0	18956.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	23347.0	0.0	23347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	2.0
10°-20°	1110.5	4.8
20°-30°	1511.8	6.5
30°-40°	2031.6	8.7
40°-50°	3033.4	13.0
50°-60°	4825.2	20.7
60°-70°	5934.7	25.4
70°-80°	3861.4	16.5
80°-90°	570.2	2.4
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°	23347.0	100.0
0°-180°	23347.0	100.0

Coefficient of Utilization

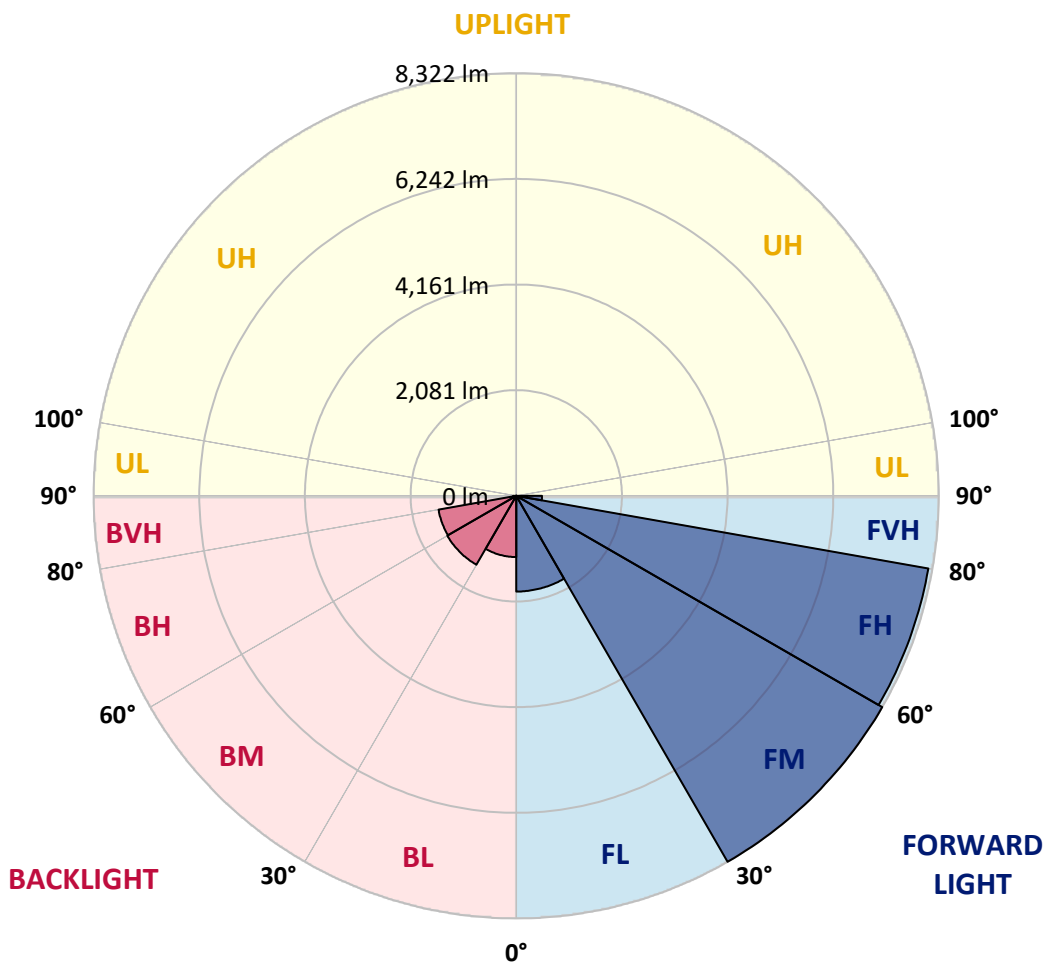


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.2	8.1			
FM (30°-60°)	8322.5	35.6			
FH (60°-80°)	8241.6	35.3			G4/12000
FVH (80°-90°)	507.0	2.2			G4/750
BL (0°-30°)	1205.3	5.2	B3/2500		
BM (30°-60°)	1567.7	6.7	B2/2500		
BH (60°-80°)	1554.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	63.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5
2.5°	5202.7	5223.4	5246.7	5272.5	5321.7	5348.8	5368.2	5390.1	5392.7	5404.4	5395.4
5°	4818.7	4843.2	4878.2	4927.3	5001.0	5116.1	5235.1	5332.0	5343.6	5398.0	5413.4
7.5°	4498.1	4512.3	4540.7	4619.6	4724.3	4852.3	5025.6	5222.1	5250.5	5379.9	5425.1
10°	4236.9	4251.1	4284.7	4366.2	4469.6	4630.0	4820.0	5078.5	5101.8	5324.2	5427.6
12.5°	4041.7	4054.6	4090.8	4170.9	4289.9	4439.9	4649.3	4923.5	4957.0	5250.5	5403.1
15°	3893.0	3917.5	3947.3	4013.3	4138.6	4283.5	4486.4	4781.3	4808.3	5173.0	5386.3
17.5°	3829.7	3841.3	3862.0	3922.7	4014.5	4156.7	4361.0	4670.0	4702.4	5118.7	5382.4
20°	3832.2	3843.9	3847.7	3881.4	3947.3	4070.1	4271.8	4582.1	4620.9	5070.8	5388.9
22.5°	3920.2	3921.4	3907.2	3895.6	3921.4	4023.6	4208.4	4516.2	4561.4	5050.1	5394.1
25°	4055.9	4079.2	4058.5	4004.2	3956.3	4005.4	4183.9	4479.9	4522.6	5020.4	5387.6
27.5°	4275.6	4279.6	4262.8	4189.0	4065.0	4028.7	4173.5	4452.8	4489.0	4998.4	5355.2
30°	4570.5	4558.8	4543.3	4461.8	4266.6	4118.0	4195.5	4428.3	4465.7	4966.1	5316.5
32.5°	4869.1	4905.3	4891.1	4795.5	4542.0	4291.2	4266.6	4425.7	4456.7	4941.5	5273.8
35°	5185.9	5202.7	5270.0	5220.8	4960.9	4571.8	4399.8	4465.7	4490.3	4942.8	5244.1
37.5°	5434.1	5479.4	5637.1	5679.8	5435.5	4942.8	4615.7	4579.5	4589.8	5006.2	5255.7
40°	5734.1	5811.6	6014.7	6189.2	6028.9	5425.1	4982.9	4790.3	4803.2	5158.8	5332.0
42.5°	6114.2	6168.5	6441.3	6678.0	6652.1	6062.5	5427.6	5135.5	5142.0	5462.5	5545.3
45°	6559.0	6636.6	6943.0	7298.5	7359.3	6783.9	6070.3	5657.8	5654.0	5934.5	5943.5
47.5°	7127.9	7175.7	7479.5	7867.4	8113.0	7690.3	6849.9	6407.7	6366.4	6622.4	6548.6
50°	7651.5	7726.5	7956.6	8380.7	8992.2	8751.8	7875.2	7379.9	7283.0	7522.2	7398.1
52.5°	7871.3	7950.1	8144.1	8670.3	9746.0	10124.9	9177.2	8539.8	8378.1	8561.7	8516.5
55°	7489.9	7592.0	7773.0	8413.0	10077.0	11708.7	10932.9	9880.5	9762.8	9683.9	9696.9
57.5°	6464.6	6561.6	6806.0	7511.9	9681.3	12858.0	13439.9	11603.9	11351.8	10988.5	11050.6
60°	4920.9	4981.6	5108.3	5890.5	8508.7	13156.8	16286.9	13782.5	13622.2	12287.9	12331.8
62.5°	3494.8	3563.3	3651.2	4041.7	6229.3	12315.0	18515.9	16824.8	16252.0	13633.8	13591.1
65°	2838.0	2791.4	2897.4	3079.7	3655.1	9544.3	19017.5	21047.5	20258.8	15406.4	14814.3
67.5°	2333.7	2284.6	2389.3	2713.8	2779.8	5540.2	17210.1	23788.4	23630.7	17334.2	16056.8
69°	2066.1	2040.3	2132.0	2501.8	2668.6	3934.4	14992.7	24169.8	24207.3	18470.6	16248.1
70°	1861.8	1872.2	1961.4	2394.5	2618.2	3243.9	12814.1	23643.6	23961.7	19038.2	16041.2
72.5°	1370.5	1392.4	1516.6	1983.3	2570.3	2752.6	7625.6	20651.8	21214.2	19071.9	14674.6
75°	958.1	947.7	1057.6	1493.3	2428.1	2728.0	4478.7	15971.4	16608.8	16484.7	12330.6
77.5°	627.0	643.9	731.8	1055.0	2042.8	2707.3	2919.4	11331.1	11744.9	11024.8	7293.3
80°	442.2	440.9	490.1	720.1	1515.3	2601.4	2390.6	7142.1	7037.3	4332.6	2163.1
82.5°	253.4	271.5	328.4	506.8	1013.7	2289.8	2199.2	3415.9	3118.5	1234.8	730.5
85°	141.0	147.4	195.2	306.5	592.1	1724.7	1920.0	1554.1	1466.2	515.9	314.2
87.5°	45.2	49.1	81.5	155.2	269.0	814.5	1087.3	717.5	662.0	186.2	126.7
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°	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5	5391.5
2.5°	5399.2	5414.8	5373.4	5333.3	5297.1	5246.7	5201.4	5163.9	5138.1	5134.2	5121.3
5°	5417.3	5418.6	5339.8	5233.7	5130.3	5016.6	4898.9	4814.8	4735.9	4692.0	4670.0
7.5°	5430.3	5418.6	5276.4	5104.4	4905.3	4698.5	4491.6	4326.1	4198.1	4147.6	4167.1
10°	5425.1	5388.9	5180.7	4905.3	4615.7	4306.7	4009.3	3776.6	3563.3	3453.4	3456.0
12.5°	5396.6	5337.2	5038.5	4681.7	4256.3	3842.5	3387.5	3073.3	2826.3	2680.2	2634.9
15°	5372.1	5268.6	4871.7	4377.8	3849.0	3258.1	2703.5	2315.6	2108.7	1993.7	1992.4
17.5°	5346.2	5202.7	4689.4	4055.9	3381.0	2620.7	2038.9	1742.9	1645.9	1657.5	1638.1
20°	5319.1	5125.1	4499.3	3697.7	2810.8	1954.9	1526.9	1406.7	1433.8	1486.9	1494.6
22.5°	5288.0	5042.4	4295.1	3303.4	2210.9	1471.3	1238.6	1220.5	1290.3	1373.1	1384.7
25°	5240.2	4938.9	4037.8	2890.9	1705.4	1185.6	1084.7	1097.7	1166.2	1236.0	1243.8
27.5°	5173.0	4810.9	3777.9	2376.4	1281.3	1017.5	991.7	1008.4	1042.1	1084.7	1095.1
30°	5082.5	4666.1	3479.2	1931.6	1026.6	933.5	923.2	932.2	951.6	969.7	974.9
32.5°	4991.9	4526.5	3178.0	1479.1	915.4	877.9	867.6	867.6	867.6	870.1	871.4
35°	4907.9	4394.6	2854.8	1152.0	857.2	833.9	819.7	804.2	801.6	792.6	792.6
37.5°	4861.4	4274.4	2510.9	964.5	814.5	797.8	778.3	752.4	738.2	739.6	737.0
40°	4870.4	4195.5	2198.0	858.5	779.6	761.5	731.8	702.1	693.0	693.0	690.4
42.5°	4972.6	4169.7	1898.0	802.9	746.1	725.4	687.9	660.7	655.5	654.2	656.8
45°	5207.9	4233.0	1629.1	766.7	717.5	686.5	649.1	624.4	619.3	619.3	618.1
47.5°	5666.8	4438.6	1436.4	743.4	696.9	656.8	618.1	593.4	584.4	581.8	581.8
50°	6380.6	4884.6	1293.0	722.8	671.0	629.7	589.5	561.1	546.9	545.6	544.3
52.5°	7372.2	5580.2	1237.4	707.2	642.6	601.2	557.2	530.1	512.0	508.1	505.5
55°	8531.9	6551.2	1313.6	695.6	612.8	568.9	523.6	495.2	478.4	470.6	469.4
57.5°	9875.3	7717.4	1603.2	680.1	585.7	534.0	490.1	461.5	443.5	434.5	431.9
60°	11081.6	8915.9	2108.7	671.0	562.5	496.4	451.2	425.4	408.6	399.5	398.2
62.5°	12406.9	10058.9	2712.6	695.6	552.1	460.3	415.0	391.7	377.5	368.4	368.4
65°	13822.6	11203.1	3112.0	778.3	567.6	431.9	376.3	356.8	343.9	337.5	336.1
67.5°	14776.8	11598.7	2563.9	863.7	606.4	400.8	338.8	323.2	315.5	309.0	309.0
69°	14673.3	11098.4	1891.6	885.7	618.1	385.3	318.1	306.5	296.1	293.5	290.9
70°	14346.2	10528.2	1585.1	871.4	609.0	371.0	305.1	290.9	281.8	279.3	278.0
72.5°	12777.9	9130.6	1180.4	757.7	518.5	321.9	270.2	257.3	249.5	245.7	245.7
75°	10616.2	7462.7	921.8	602.5	406.0	271.5	231.4	221.1	214.6	212.0	210.8
77.5°	5950.0	4167.1	662.0	471.9	307.7	219.8	193.9	184.9	178.5	175.9	175.9
80°	1657.5	1190.8	389.1	311.6	209.5	166.8	153.8	147.4	138.3	131.9	135.7
82.5°	624.4	515.9	222.4	187.5	133.1	111.2	107.3	102.2	98.2	89.2	89.2
85°	303.9	250.8	142.2	99.6	73.7	58.2	55.6	53.0	50.5	44.0	45.2
87.5°	104.7	111.2	62.1	36.2	22.0	14.2	11.6	6.5	6.5	6.5	6.5
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)