

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: P648676

Luminaire Tested: **GALN-SA9B-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31623.8 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

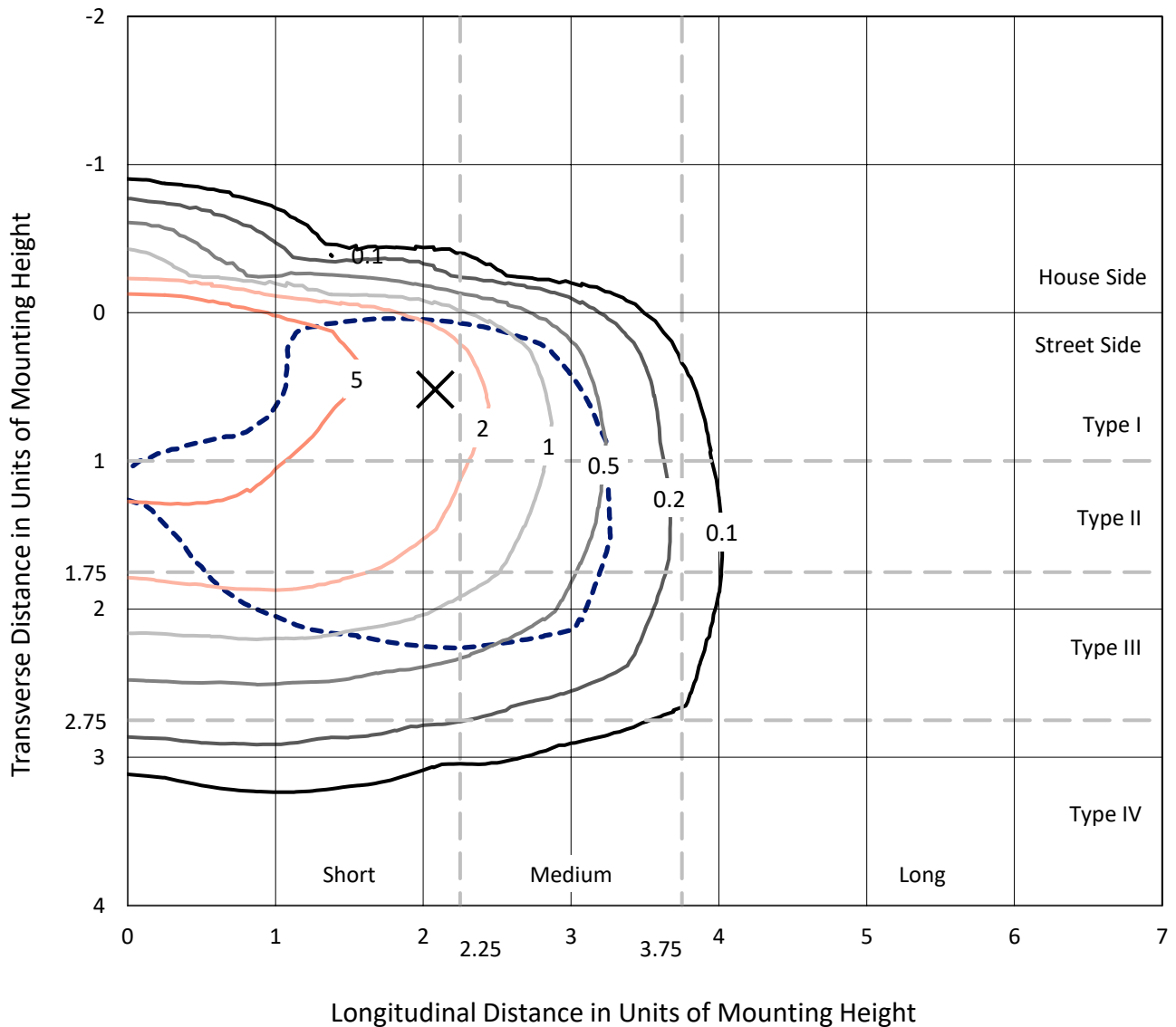
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

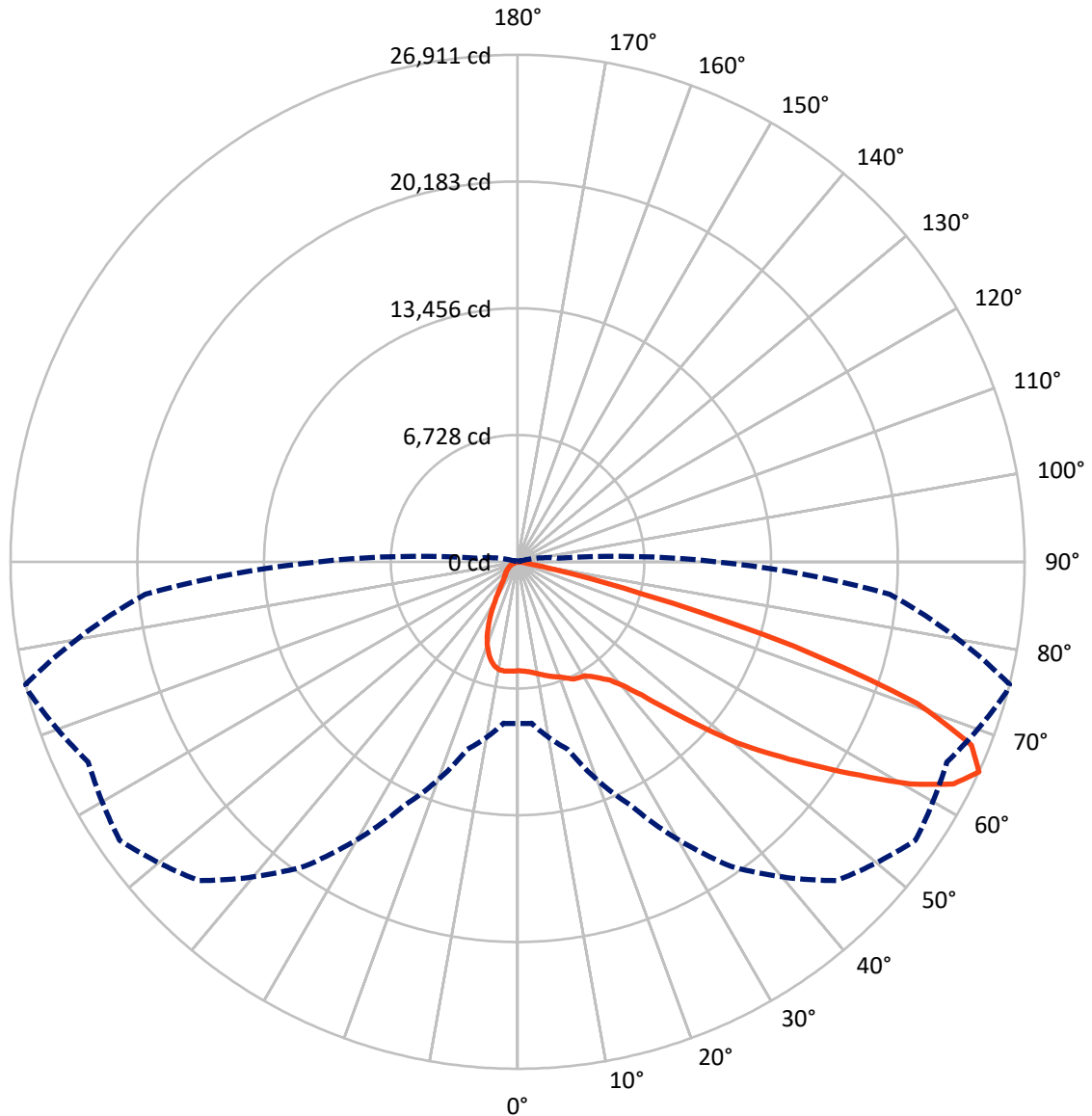
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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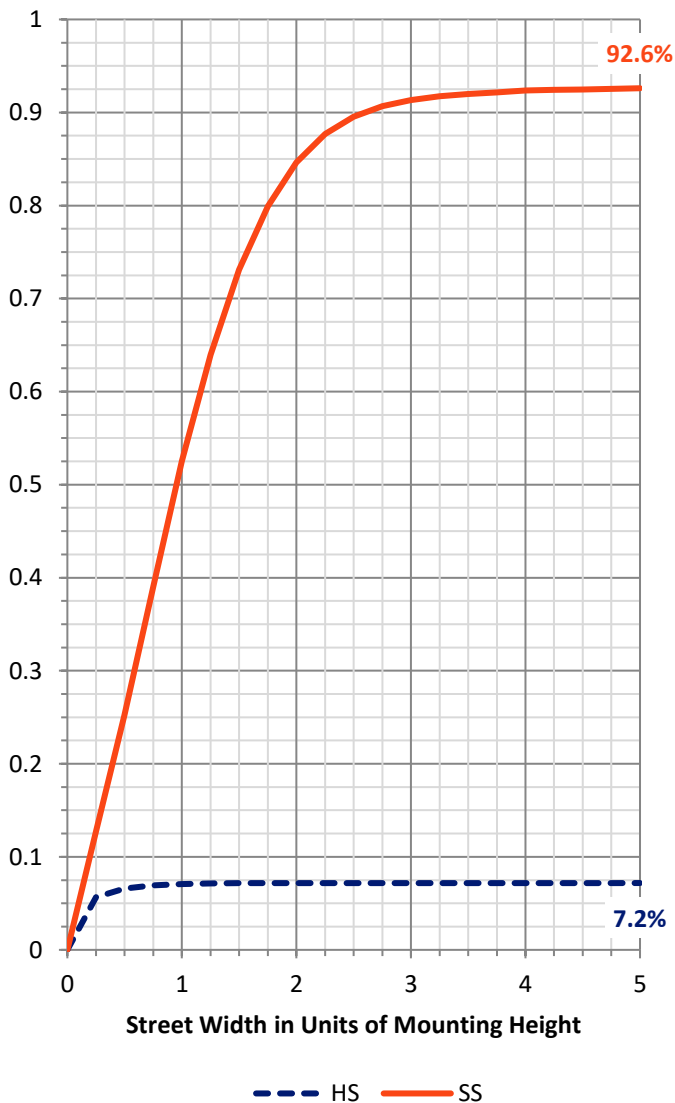
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2283.9	0.0	2283.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	29339.9	0.0	29339.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	31623.8	0.0	31623.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.5	1.5
10°-20°	1061.1	3.4
20°-30°	1709.8	5.4
30°-40°	2973.0	9.4
40°-50°	4912.6	15.5
50°-60°	7589.0	24.0
60°-70°	9267.3	29.3
70°-80°	3517.2	11.1
80°-90°	117.4	0.4
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°	31623.8	100.0
0°-180°	31623.8	100.0

**Coefficient of Utilization**



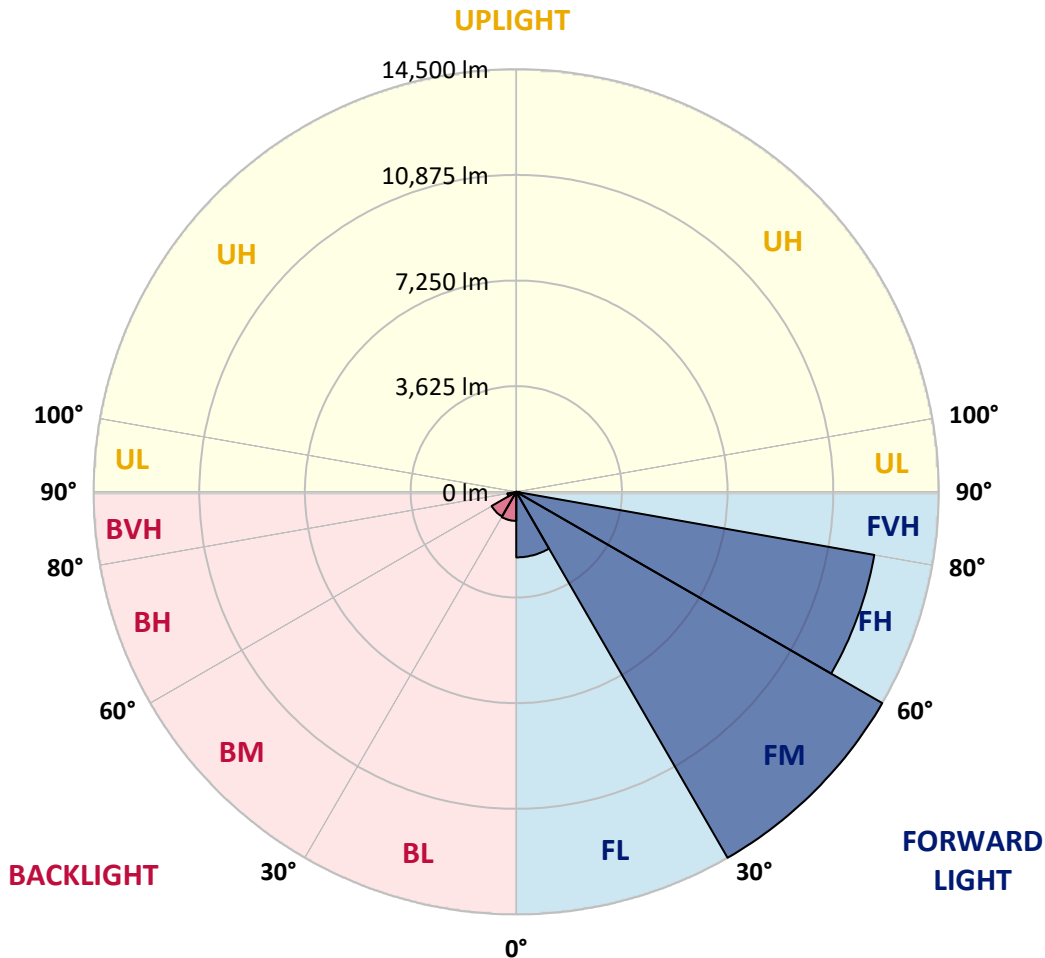
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.7	7.1			
FM (30°-60°)	14500.0	45.9			
FH (60°-80°)	12474.5	39.4			G5
FVH (80°-90°)	115.8	0.4			G2/225
BL (0°-30°)	997.8	3.2	B2/1000		
BM (30°-60°)	974.6	3.1	B1/1000		
BH (60°-80°)	309.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0
2.5°	5528.2	5530.5	5543.9	5577.4	5628.7	5671.1	5706.9	5764.9	5805.1	5809.5	5822.9
5°	5146.4	5119.6	5146.4	5233.5	5311.6	5430.0	5575.1	5720.3	5849.7	5858.7	5921.2
7.5°	4717.7	4740.0	4782.5	4871.8	5019.2	5200.1	5409.9	5668.9	5914.5	5936.9	6059.6
10°	4282.4	4331.5	4400.7	4536.9	4742.3	4976.7	5262.5	5633.2	6017.2	6048.4	6260.6
12.5°	3880.5	3902.8	3987.7	4170.7	4425.3	4755.7	5150.9	5613.1	6131.0	6169.0	6474.9
15°	3572.4	3601.4	3675.1	3840.3	4123.8	4548.1	5059.4	5606.4	6242.7	6296.3	6689.2
17.5°	3514.3	3532.2	3563.4	3675.1	3922.9	4382.8	4976.7	5604.2	6349.9	6414.6	6888.0
20°	3753.2	3737.6	3706.3	3695.1	3831.4	4255.6	4916.5	5622.0	6452.6	6526.3	7097.8
22.5°	4351.6	4371.7	4188.6	3972.0	3927.4	4235.5	4907.5	5706.9	6615.6	6702.6	7332.2
25°	5622.0	5467.9	5182.1	4664.2	4273.5	4358.3	5008.0	5907.8	6805.4	6901.4	7544.4
27.5°	7026.4	6979.5	6535.2	5682.3	4954.4	4617.3	5186.7	6061.8	6867.8	6966.1	7664.9
30°	8406.2	8462.0	7953.0	7010.7	5943.5	5097.3	5354.1	6119.9	6923.7	7026.4	7819.0
32.5°	9685.6	9752.6	9306.0	8372.8	7109.0	5927.9	5642.1	6345.4	7158.1	7263.1	8075.8
35°	10692.6	10701.5	10364.3	9620.8	8381.7	6937.1	6265.0	6740.6	7475.1	7598.0	8348.2
37.5°	11616.9	11603.5	11208.3	10567.5	9442.2	7939.6	7048.7	7196.1	7836.9	7964.1	8741.1
40°	12302.3	12311.3	12184.0	11581.2	10431.3	8866.1	7669.4	7622.5	8444.2	8642.9	9312.7
42.5°	12760.1	12842.7	12905.2	12599.3	11674.9	10007.1	8622.8	8535.7	9498.0	9663.2	10121.0
45°	13130.7	13278.0	13590.6	13575.0	12869.5	11407.0	9931.2	9752.6	10991.8	11168.1	11150.2
47.5°	13400.8	13550.4	14068.4	14381.0	13992.5	12764.5	11576.7	11422.6	12775.7	12967.7	12286.7
50°	13539.2	13717.9	14378.8	14983.9	14870.0	14072.9	13452.2	13461.1	14930.2	15115.6	13604.0
52.5°	13215.6	13447.7	14544.0	15633.6	15854.6	15325.4	15209.4	15504.1	16848.2	17006.7	14794.1
55°	12181.8	12474.3	14318.5	16187.3	16995.6	16803.5	17205.4	17654.2	18944.7	19047.4	16015.4
57.5°	11527.6	11837.9	13653.2	16658.4	18366.4	18661.2	19297.5	19625.7	21108.2	21369.5	17417.5
60°	10976.1	11219.5	13106.1	16758.9	19759.6	20934.1	21552.5	21891.9	23778.5	23948.3	18960.3
62.5°	10058.4	10337.6	12181.8	16057.8	20460.7	22753.7	24035.4	23883.5	25843.9	25962.2	19907.0
65°	8582.6	8607.2	10306.3	14296.2	19737.3	23934.9	25779.1	25142.8	26830.7	26911.1	19833.3
67.5°	6405.7	6642.3	7928.4	11237.3	16671.8	22925.7	26344.0	25176.3	26207.8	25984.5	18259.2
70°	4126.1	4307.0	5374.2	7792.3	12021.0	19132.3	24470.7	23450.4	23001.6	22505.9	14945.9
72.5°	1904.5	2136.7	3192.8	4452.1	7129.1	13628.6	19864.6	19051.9	16555.7	15332.2	9500.3
75°	830.6	888.6	1576.3	2348.8	3342.4	7207.3	13097.2	11826.7	7477.4	6830.0	3802.3
77.5°	506.8	544.8	826.1	1259.2	1312.9	2746.3	7055.5	5159.8	2310.9	2038.5	1031.5
80°	343.8	386.3	600.6	658.7	448.8	765.9	2648.0	1377.6	466.7	446.5	221.0
82.5°	167.5	212.1	444.3	368.4	194.3	245.6	770.3	294.7	136.2	127.2	78.1
85°	24.6	42.4	250.1	241.2	87.1	58.0	136.2	73.7	46.9	44.6	35.7
87.5°	0.0	0.0	84.9	38.0	8.9	8.9	15.7	15.7	17.9	15.7	17.9
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°	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0
2.5°	5829.7	5840.8	5798.4	5738.1	5673.4	5608.6	5517.1	5434.5	5385.3	5414.4	5343.0
5°	5934.6	5925.7	5814.0	5630.9	5387.6	5095.1	4804.8	4557.0	4476.6	4356.1	4342.7
7.5°	6079.8	6055.2	5818.5	5398.7	4849.5	4300.2	3764.4	3409.4	3206.2	3034.3	3038.7
10°	6282.9	6211.5	5767.1	4990.1	4085.9	3257.5	2574.3	2105.5	1902.3	1837.5	1786.2
12.5°	6492.8	6354.4	5624.2	4438.7	3181.6	2226.1	1565.1	1279.3	1154.3	1114.1	1109.7
15°	6680.3	6461.6	5374.2	3775.5	2313.1	1422.2	1067.2	973.5	957.8	960.0	957.8
17.5°	6865.7	6546.3	5028.1	3072.3	1571.9	1020.3	917.7	895.4	902.0	910.9	908.7
20°	7019.7	6564.2	4586.0	2344.4	1111.9	895.4	861.8	857.4	864.0	870.8	870.8
22.5°	7187.2	6577.6	4061.3	1623.2	908.7	832.8	814.9	814.9	823.9	832.8	835.1
25°	7312.2	6503.9	3433.9	1165.5	801.6	772.5	763.6	765.9	774.8	779.2	777.0
27.5°	7332.2	6296.3	2768.6	893.1	727.9	698.8	689.9	698.8	687.7	694.4	689.9
30°	7350.2	6032.9	2094.3	752.5	660.9	616.2	602.8	589.4	580.5	569.3	567.1
32.5°	7405.9	5722.5	1529.4	676.5	598.4	549.3	518.0	480.1	451.0	442.1	439.8
35°	7430.5	5349.6	1123.1	616.2	542.5	489.0	433.2	379.6	337.2	321.5	332.7
37.5°	7524.3	4987.9	870.8	571.6	493.4	426.4	355.0	288.0	247.8	238.9	243.4
40°	7716.3	4595.0	730.1	533.6	451.0	368.4	281.3	216.6	189.8	180.9	178.6
42.5°	8024.4	4204.2	649.7	497.9	408.6	310.4	221.0	169.7	147.4	140.6	140.6
45°	8399.6	3829.1	593.9	459.9	363.9	250.1	174.1	136.2	122.8	118.3	118.3
47.5°	8893.0	3500.9	547.0	422.0	314.8	198.7	140.6	118.3	109.4	111.7	113.8
50°	9393.1	3257.5	495.6	379.6	259.0	163.0	120.6	104.9	102.7	104.9	104.9
52.5°	9770.4	3114.7	426.4	321.5	203.2	136.2	107.2	98.3	96.0	91.5	91.5
55°	10279.5	3083.4	339.4	261.2	160.7	113.8	96.0	89.3	82.6	78.1	76.0
57.5°	10933.7	3119.2	261.2	203.2	125.0	93.8	84.9	73.7	64.8	55.8	55.8
60°	11340.0	3038.7	203.2	156.3	91.5	76.0	64.8	53.6	42.4	35.7	33.5
62.5°	11210.5	2699.4	160.7	116.1	64.8	55.8	42.4	35.7	24.6	17.9	15.7
65°	10542.9	2179.2	129.5	80.4	46.9	33.5	22.3	22.3	11.2	2.3	0.0
67.5°	9227.9	1614.2	102.7	53.6	26.8	15.7	11.2	6.7	0.0	0.0	0.0
70°	7510.9	1165.5	80.4	33.5	15.7	11.2	4.5	2.3	0.0	0.0	0.0
72.5°	4769.1	667.6	62.5	20.1	11.2	4.5	0.0	0.0	0.0	0.0	0.0
75°	1844.2	261.2	42.4	13.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	522.5	122.8	24.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	136.2	53.6	13.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.8	22.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.0	8.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)