

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: P456696

Luminaire Tested: **GALN-SA8A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25404 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

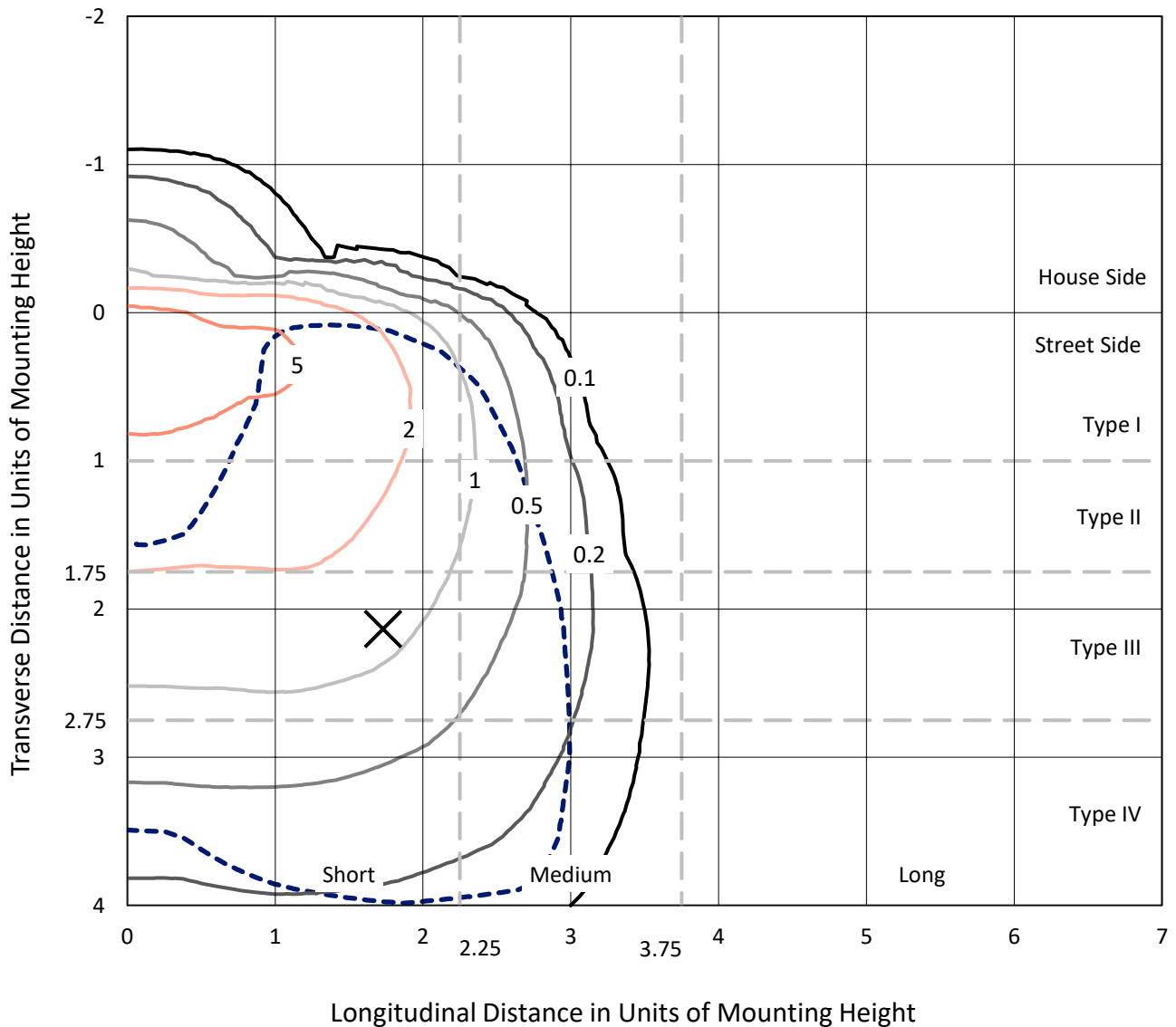
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

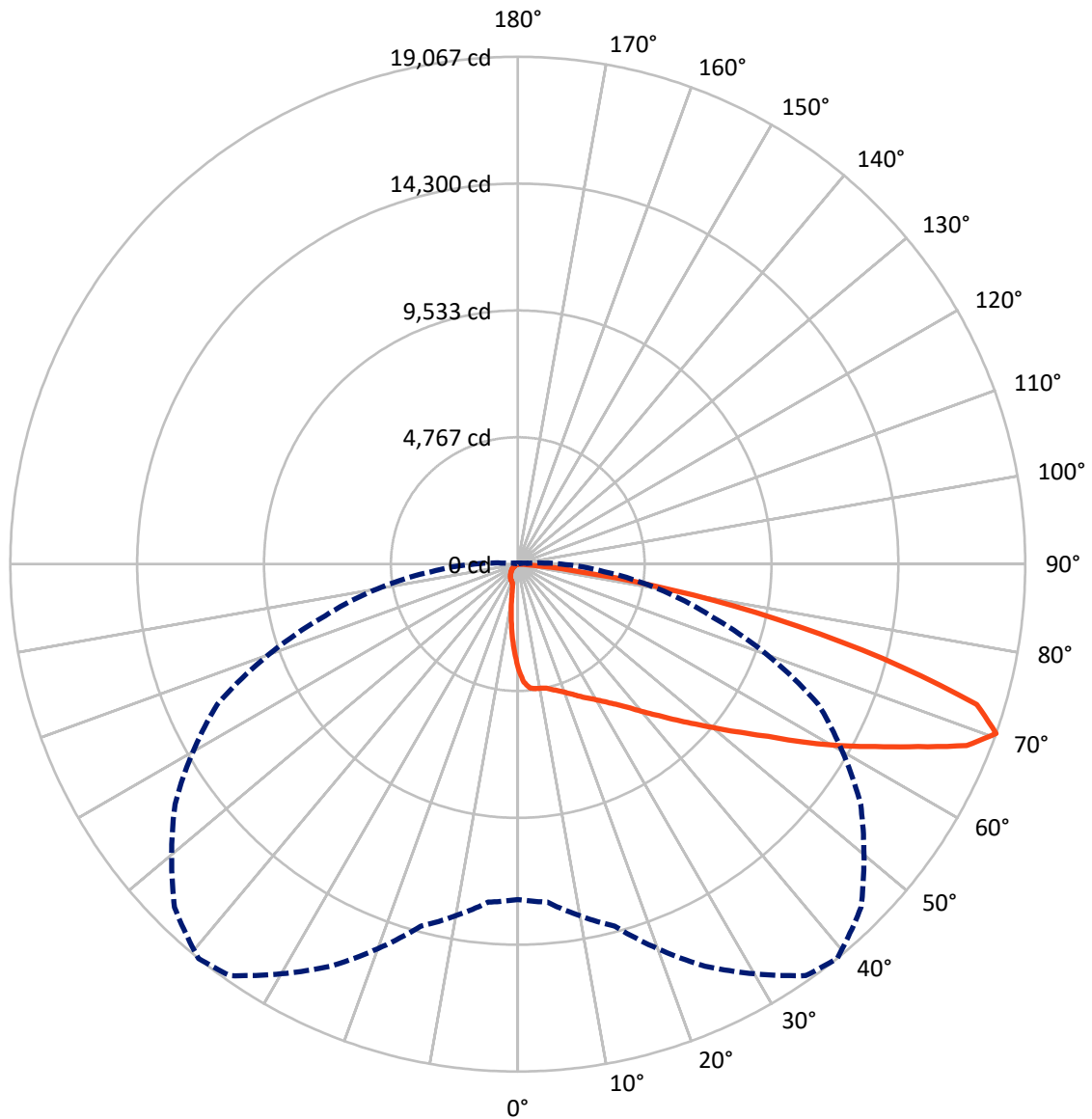
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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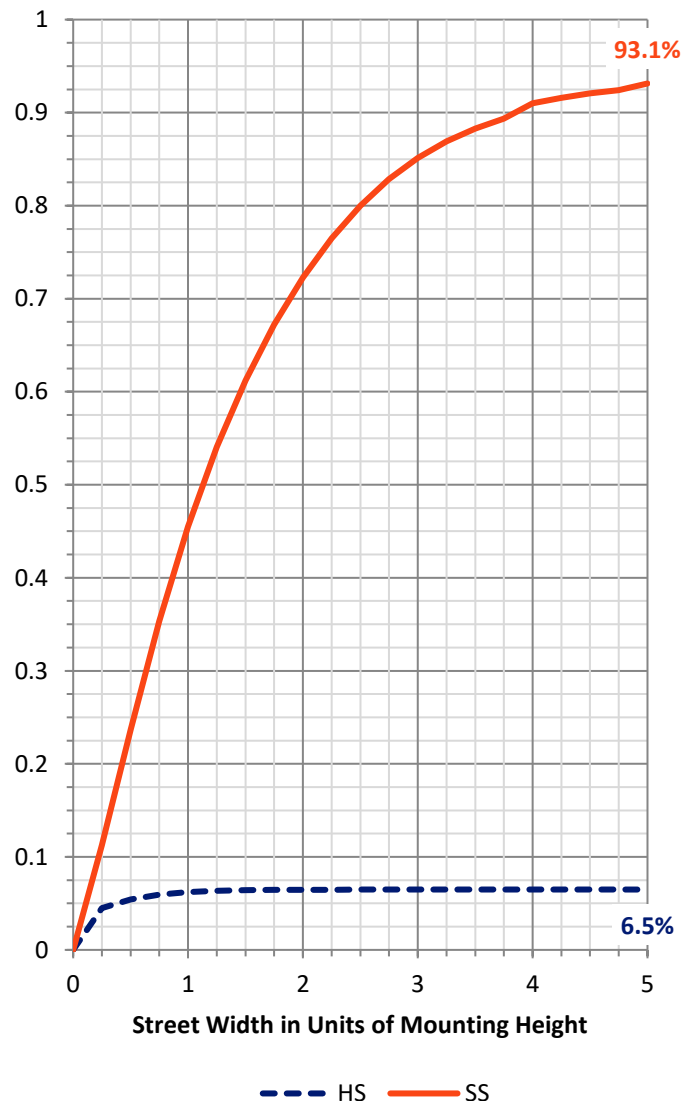
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.4	0.0	1656.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23747.5	0.0	23747.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	25404.0	0.0	25404.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.3
10°-20°	878.6	3.5
20°-30°	1471.9	5.8
30°-40°	2282.7	9.0
40°-50°	3617.5	14.2
50°-60°	5302.7	20.9
60°-70°	6796.7	26.8
70°-80°	4270.8	16.8
80°-90°	444.9	1.8
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°	25404.0	100.0
0°-180°	25404.0	100.0



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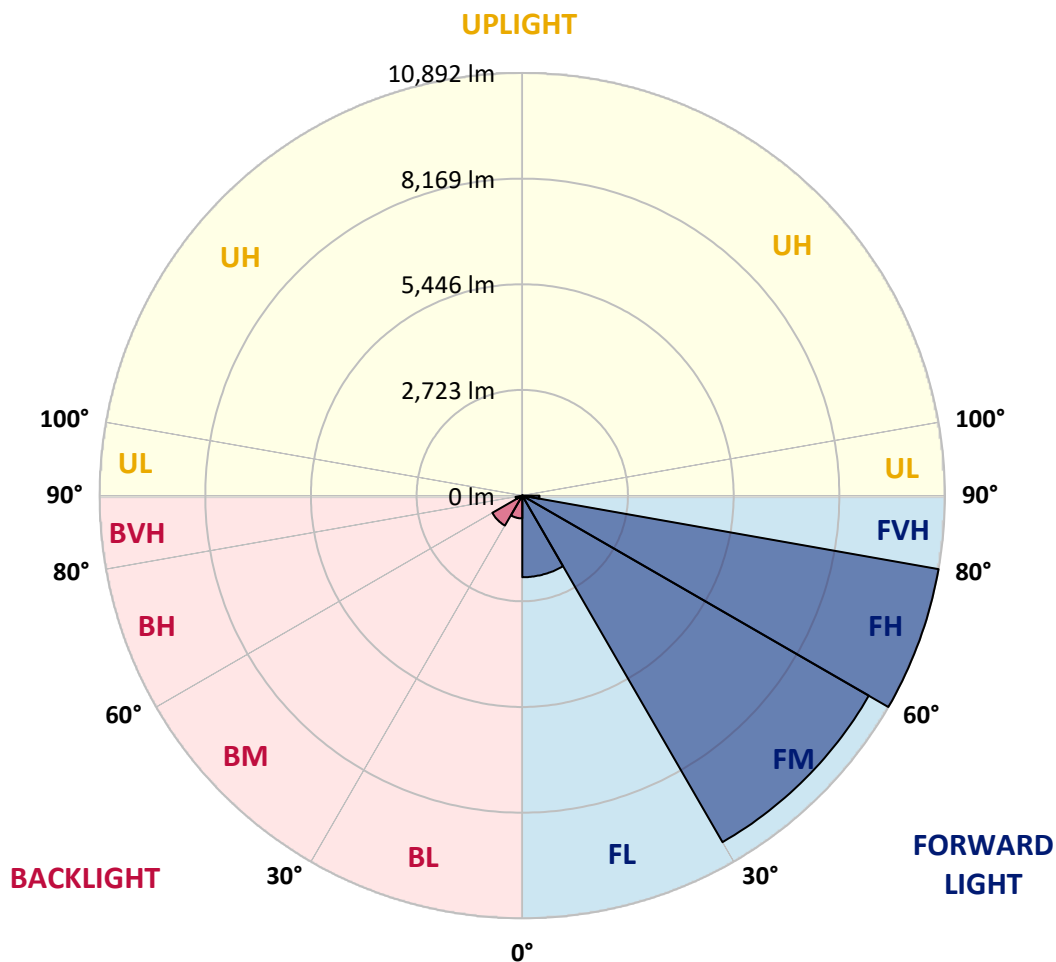
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.1	8.3			
FM (30°-60°)	10311.4	40.6			
FH (60°-80°)	10892.4	42.9			G4/12000
FVH (80°-90°)	441.6	1.7			G3/500
BL (0°-30°)	586.5	2.3	B2/1000		
BM (30°-60°)	891.5	3.5	B1/1000		
BH (60°-80°)	175.2	0.7	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9
2.5°	4580.2	4564.8	4544.3	4520.4	4452.1	4440.2	4399.2	4312.1	4208.0	4122.7	4004.9
5°	4797.0	4805.5	4790.1	4747.5	4698.0	4668.9	4617.7	4482.9	4348.0	4175.6	3982.7
7.5°	4846.5	4863.5	4844.8	4803.8	4756.0	4725.3	4684.3	4568.2	4411.2	4214.8	3950.2
10°	4841.3	4861.8	4849.9	4812.3	4773.1	4744.0	4699.7	4607.5	4481.1	4274.6	3960.5
12.5°	4832.8	4860.1	4858.4	4839.6	4807.2	4785.0	4757.7	4675.8	4558.0	4361.7	4016.8
15°	4808.9	4843.1	4873.8	4889.1	4890.9	4890.9	4856.7	4769.6	4657.0	4476.0	4090.2
17.5°	4819.2	4858.4	4935.2	4979.6	5010.4	5006.9	4971.1	4877.2	4752.6	4593.8	4167.0
20°	4882.3	4935.2	5042.8	5131.6	5162.3	5152.0	5104.2	4995.0	4853.3	4694.5	4242.2
22.5°	5037.7	5085.5	5220.3	5324.5	5346.6	5319.3	5251.1	5102.5	4974.5	4803.8	4332.6
25°	5269.8	5326.2	5450.8	5529.3	5529.3	5513.9	5418.3	5244.2	5111.1	4955.7	4450.4
27.5°	5551.5	5599.3	5722.2	5792.2	5751.2	5706.8	5611.3	5401.3	5273.2	5146.9	4592.1
30°	5836.6	5867.3	5997.1	6027.8	5985.1	5928.8	5826.3	5616.4	5503.7	5406.4	4797.0
32.5°	6106.3	6172.9	6280.4	6273.6	6215.6	6188.3	6094.4	5870.7	5807.6	5797.3	5083.8
35°	6376.0	6427.2	6522.8	6546.7	6495.5	6490.4	6422.1	6256.5	6258.2	6324.8	5531.0
37.5°	6608.2	6654.3	6767.0	6819.9	6830.1	6855.7	6828.4	6719.2	6874.5	7057.2	6123.4
40°	6802.8	6867.7	7011.1	7103.3	7209.1	7303.0	7308.1	7332.0	7644.4	7958.5	6896.7
42.5°	6954.7	7045.2	7253.5	7424.2	7666.6	7786.1	7881.7	8013.1	8538.9	9008.4	7808.3
45°	7152.8	7256.9	7516.4	7784.4	8163.4	8359.7	8492.8	8844.5	9590.5	10230.7	8743.8
47.5°	7480.5	7535.2	7799.8	8190.7	8689.2	8969.1	9228.6	9761.2	10718.9	11292.5	9522.2
50°	7902.2	7938.0	8137.8	8680.6	9325.9	9694.6	10167.5	10794.0	11890.0	12173.4	9962.7
52.5°	8368.2	8380.2	8530.4	9220.1	10039.5	10503.8	11033.0	11806.3	12844.3	12801.6	10254.6
55°	8909.4	8892.3	9020.3	9805.6	10884.5	11415.4	12031.7	12842.5	13672.2	13247.1	10421.9
57.5°	9529.1	9483.0	9607.6	10582.3	11966.8	12601.8	13228.3	13737.1	14314.1	13621.0	10502.1
60°	10177.8	10085.6	10234.1	11454.7	13242.0	13844.6	14365.3	14501.8	14990.1	13918.0	10363.8
62.5°	10695.0	10696.7	10973.3	12383.3	14553.1	15080.6	15357.1	15480.0	15572.2	13853.1	9636.6
65°	11502.5	11529.8	11971.9	13672.2	16070.7	16528.2	16717.7	16318.2	15597.8	13047.4	8544.1
67.5°	12335.5	12422.6	13231.8	15447.6	17823.9	18192.6	17948.5	16480.4	14901.3	11208.8	6478.5
70°	12607.0	12750.4	14083.6	16669.9	18875.4	19066.6	18240.4	15724.1	12456.7	7494.2	3260.6
72.5°	11552.0	11784.1	13593.7	16224.3	18204.6	18039.0	16319.9	13187.4	7919.3	2845.7	995.2
75°	8146.3	8248.7	11297.6	13458.8	14641.8	14172.4	12414.1	8501.4	3257.2	798.9	341.4
77.5°	4206.3	4156.8	6719.2	8929.9	10442.4	9955.8	8129.2	4400.9	1234.2	332.9	211.7
80°	2174.9	2210.7	2907.2	4679.2	6374.3	5865.6	4334.3	2040.0	657.2	184.4	162.2
82.5°	1218.9	1143.8	1671.3	2043.4	2980.6	2337.0	1662.7	1444.2	286.8	111.0	153.6
85°	221.9	232.2	916.7	1104.5	1034.5	657.2	536.0	964.5	83.6	61.5	107.5
87.5°	3.4	3.4	177.5	317.5	201.4	92.2	169.0	138.3	17.1	23.9	18.8
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°	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9
2.5°	3945.1	3880.2	3759.0	3639.5	3487.6	3363.0	3279.3	3192.3	3103.5	3110.3	3130.8
5°	3876.8	3764.2	3525.2	3272.5	3030.1	2811.6	2596.5	2403.6	2325.1	2253.4	2256.8
7.5°	3808.5	3649.8	3299.8	2903.8	2536.8	2164.6	1894.9	1673.0	1555.2	1466.4	1440.8
10°	3777.8	3567.8	3093.3	2548.7	2028.0	1621.7	1275.2	1094.3	954.3	909.9	921.8
12.5°	3791.5	3526.9	2907.2	2227.8	1608.1	1130.1	887.7	795.5	764.8	759.7	756.2
15°	3817.1	3497.9	2724.5	1872.7	1181.3	839.9	746.0	728.9	725.5	722.1	723.8
17.5°	3851.2	3472.2	2529.9	1539.8	906.5	734.1	706.7	698.2	696.5	696.5	696.5
20°	3885.4	3443.2	2313.1	1242.8	756.2	693.1	676.0	670.9	669.2	669.2	667.5
22.5°	3924.6	3417.6	2092.9	976.5	696.5	664.1	648.7	645.3	643.6	641.9	641.9
25°	3981.0	3385.2	1859.0	798.9	658.9	636.7	621.4	618.0	616.3	609.4	611.1
27.5°	4056.1	3361.3	1618.3	689.7	624.8	602.6	592.4	587.2	583.8	578.7	580.4
30°	4158.5	3340.8	1362.3	629.9	585.5	566.8	556.5	553.1	549.7	544.6	544.6
32.5°	4336.0	3349.3	1092.5	582.1	549.7	527.5	517.3	513.8	510.4	505.3	505.3
35°	4602.4	3398.8	874.0	541.2	507.0	484.8	474.6	474.6	469.5	462.6	460.9
37.5°	5037.7	3525.2	701.6	501.9	466.0	445.6	433.6	430.2	425.1	414.8	413.1
40°	5551.5	3721.5	590.7	462.6	428.5	408.0	397.8	387.5	373.9	363.6	361.9
42.5°	6196.8	3922.9	512.1	423.4	392.6	373.9	361.9	344.8	324.3	310.7	309.0
45°	6869.4	4107.3	459.2	387.5	358.5	343.1	329.5	302.2	276.6	259.5	257.8
47.5°	7371.3	4141.4	416.5	353.4	329.5	314.1	295.3	261.2	227.0	211.7	206.6
50°	7608.6	3975.8	372.1	319.2	300.5	283.4	259.5	220.2	182.7	163.9	160.5
52.5°	7692.2	3689.1	336.3	288.5	271.4	250.9	221.9	177.5	143.4	124.6	122.9
55°	7658.1	3327.1	303.9	259.5	237.3	213.4	184.4	141.7	105.8	90.5	87.1
57.5°	7478.8	2866.2	271.4	230.5	203.1	179.2	146.8	105.8	71.7	58.0	56.3
60°	6995.7	2238.0	239.0	198.0	172.4	146.8	116.1	75.1	44.4	32.4	32.4
62.5°	6179.7	1661.0	208.3	165.6	145.1	117.8	81.9	47.8	23.9	17.1	15.4
65°	5164.0	1225.7	174.1	140.0	121.2	92.2	58.0	29.0	11.9	5.1	3.4
67.5°	3603.7	756.2	145.1	114.4	99.0	66.6	35.8	11.9	5.1	0.0	0.0
70°	1637.1	360.2	111.0	87.1	75.1	47.8	18.8	6.8	3.4	0.0	0.0
72.5°	508.7	189.5	78.5	63.2	51.2	30.7	10.2	5.1	3.4	0.0	0.0
75°	235.6	121.2	49.5	34.1	29.0	15.4	6.8	3.4	1.7	0.0	0.0
77.5°	175.8	93.9	29.0	18.8	15.4	10.2	5.1	3.4	1.7	0.0	0.0
80°	153.6	47.8	17.1	11.9	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	138.3	23.9	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	75.1	13.7	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.7	6.8	5.1	3.4	3.4	1.7	1.7	1.7	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)