

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: P652586

Luminaire Tested: **GALN-SA8B-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27954 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

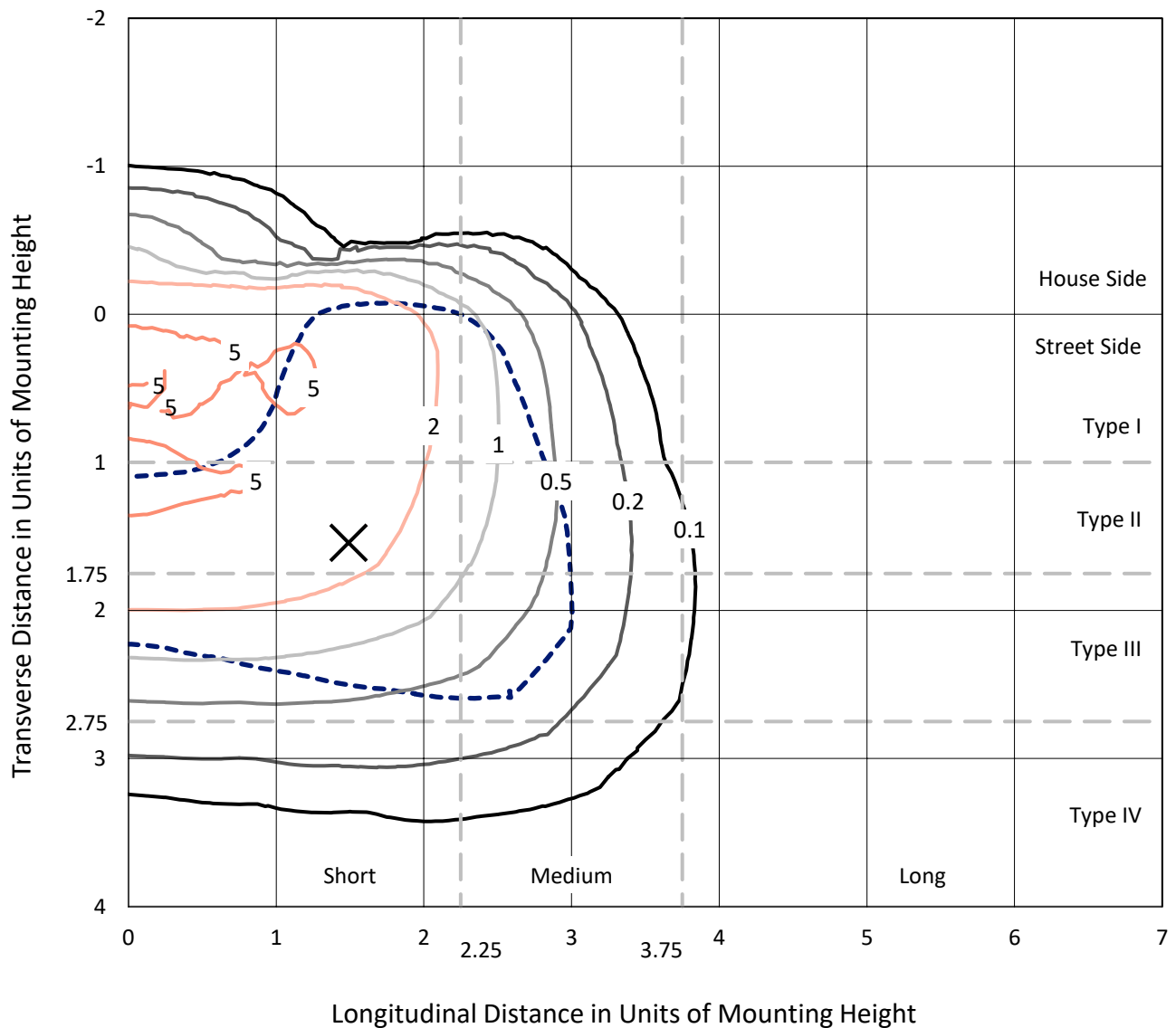
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

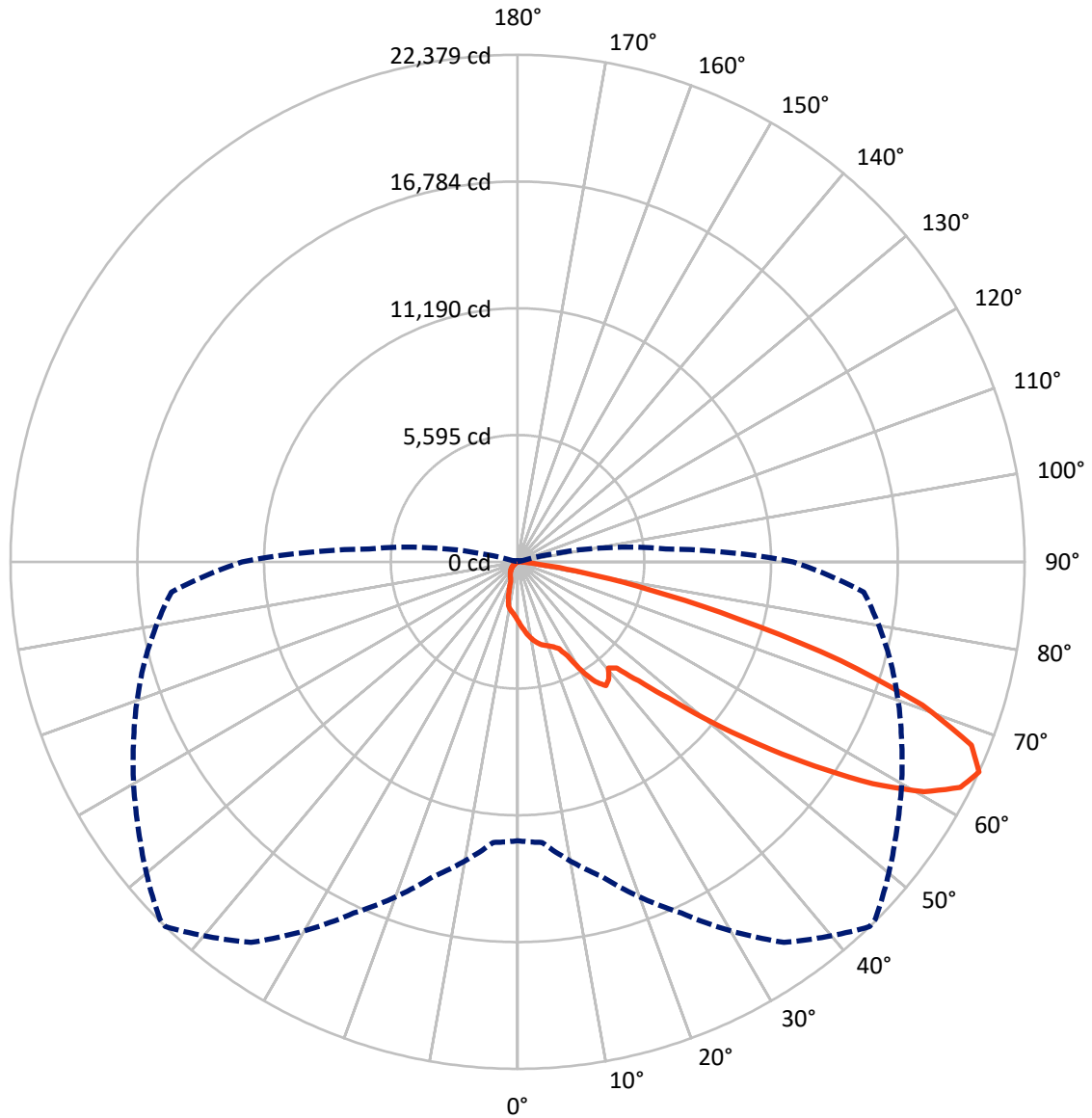
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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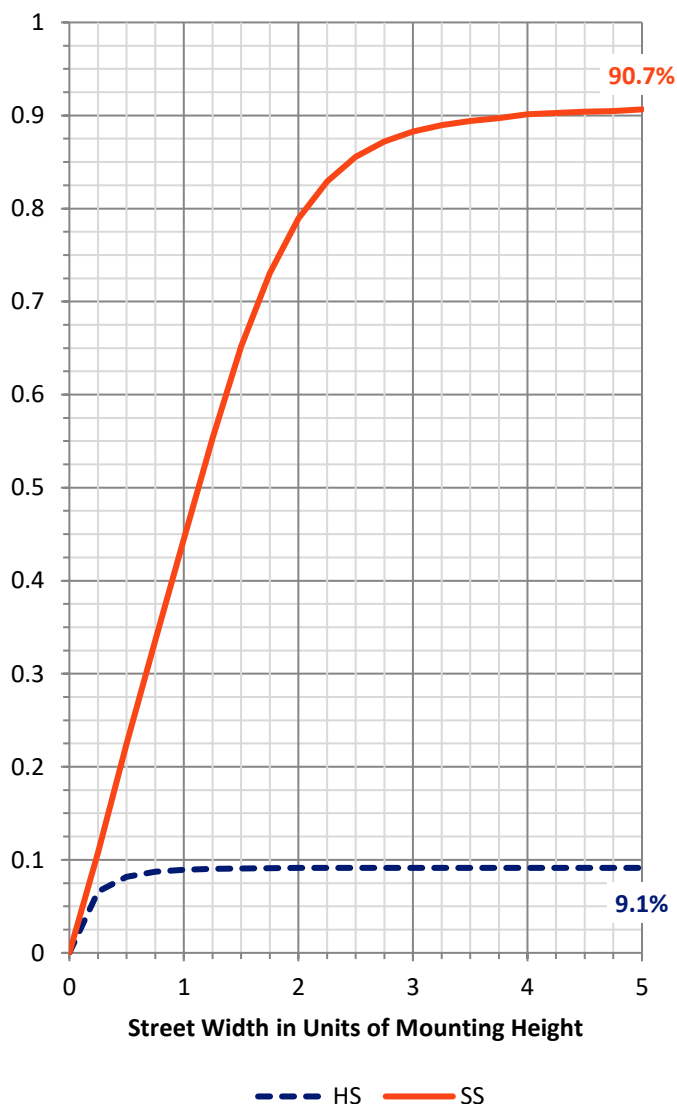
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2575.5	0.0	2575.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25378.5	0.0	25378.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	27954.0	0.0	27954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	0.9
10°-20°	778.8	2.8
20°-30°	1320.6	4.7
30°-40°	2195.7	7.9
40°-50°	3833.7	13.7
50°-60°	7489.6	26.8
60°-70°	8689.7	31.1
70°-80°	3164.3	11.3
80°-90°	223.0	0.8
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°	27954.0	100.0
0°-180°	27954.0	100.0

Coefficient of Utilization

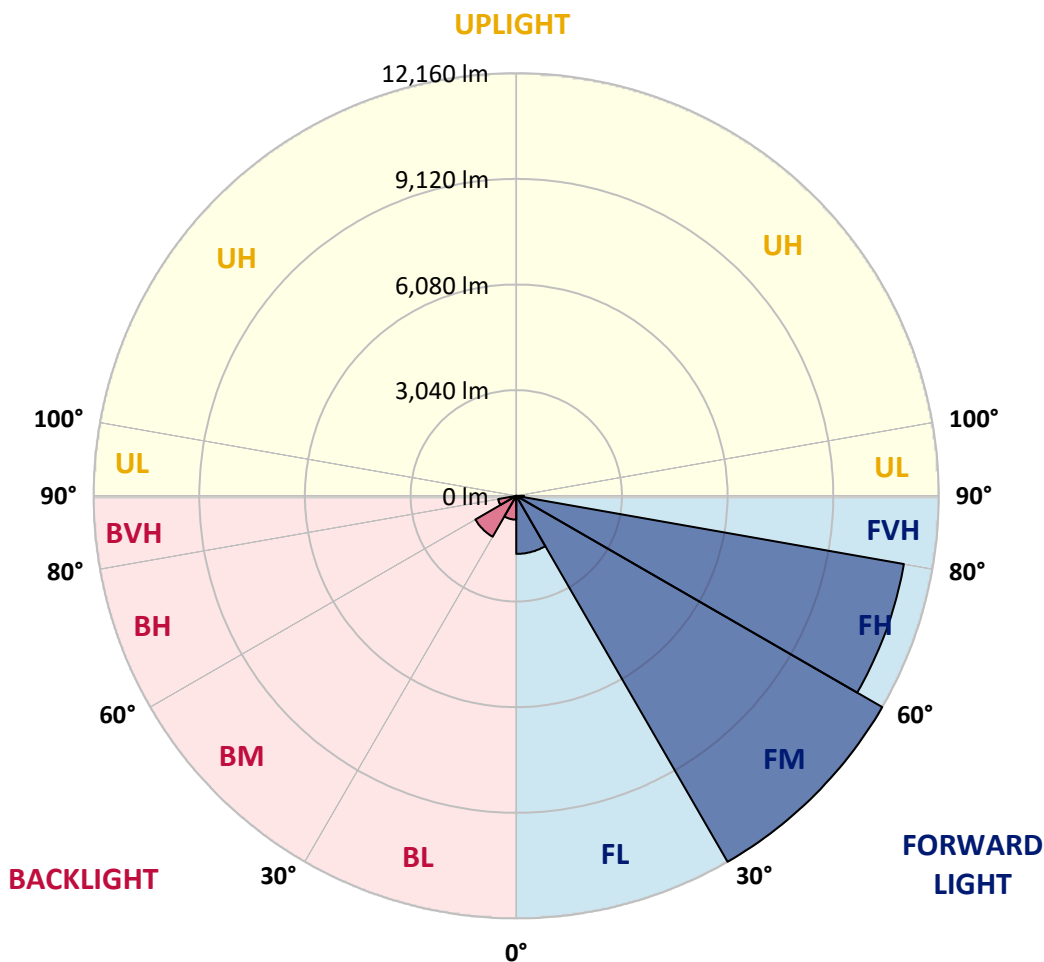


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.9	6.0			
FM (30°-60°)	12160.0	43.5			
FH (60°-80°)	11326.6	40.5			G4/12000
FVH (80°-90°)	219.9	0.8			G2/225
BL (0°-30°)	686.2	2.5	B2/1000		
BM (30°-60°)	1358.9	4.9	B2/2500		
BH (60°-80°)	527.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7
2.5°	2928.5	2915.7	2909.3	2875.1	2849.5	2817.4	2817.4	2776.8	2729.9	2678.6	2631.6
5°	3255.3	3234.0	3206.1	3176.3	3116.5	3031.0	3031.0	2945.6	2847.3	2759.7	2663.6
7.5°	3569.3	3550.1	3503.1	3445.4	3347.2	3257.4	3251.1	3127.2	3009.7	2877.2	2740.6
10°	3844.9	3829.9	3789.3	3678.3	3575.7	3458.2	3456.1	3317.2	3180.6	3018.2	2849.5
12.5°	4037.1	4039.2	3985.8	3879.0	3746.6	3635.6	3627.0	3490.2	3347.2	3172.0	2964.8
15°	4173.8	4173.8	4118.3	3998.6	3879.0	3780.8	3772.2	3652.6	3505.2	3315.1	3090.8
17.5°	4212.2	4225.1	4165.2	4058.4	3962.4	3876.9	3874.7	3774.3	3656.9	3473.2	3219.0
20°	4197.3	4210.1	4163.1	4079.8	4013.6	3964.5	3958.1	3917.5	3808.6	3635.6	3355.7
22.5°	4165.2	4178.1	4143.9	4094.7	4062.7	4077.7	4067.0	4101.1	4043.5	3834.2	3518.1
25°	4171.7	4184.5	4158.8	4131.1	4158.8	4250.7	4278.5	4425.8	4374.6	4086.3	3693.2
27.5°	4372.4	4398.1	4361.8	4374.6	4472.9	4686.5	4739.9	4994.0	4767.6	4406.6	3966.6
30°	4818.8	4801.8	4733.4	4795.4	5137.2	5590.0	5575.1	5534.5	5179.9	4776.1	4291.3
32.5°	5224.7	5209.7	5205.5	5472.5	6092.0	6312.0	6301.3	5908.3	5549.4	5199.1	4611.7
35°	5389.2	5331.5	5318.7	5966.0	7001.9	6711.4	6645.2	6062.0	5998.0	5660.5	4938.5
37.5°	5884.7	5844.2	5645.5	6047.1	6638.8	6542.6	6491.4	6326.9	6476.5	6068.5	5308.1
40°	6905.8	6792.6	6613.1	6220.1	6124.0	6164.6	6215.8	6666.5	7042.4	6626.0	5801.5
42.5°	8174.6	8149.0	7815.7	7083.1	6363.3	6418.8	6485.0	7375.7	7856.3	7465.4	6606.7
45°	9697.6	9733.9	9253.3	8388.2	7444.0	7491.0	7587.2	8422.4	8958.5	8770.5	7873.4
47.5°	11081.7	11053.9	10891.6	9992.3	9120.8	9016.2	9172.1	9765.9	10483.7	10513.5	9445.5
50°	12474.4	12621.8	12380.4	12028.0	11380.7	11160.7	11103.1	11393.6	12487.3	12344.1	11333.7
52.5°	14475.9	14552.7	14100.0	14010.2	14157.6	13444.1	13386.5	13457.0	14435.3	13944.0	12747.8
55°	15734.0	15689.1	15520.4	16221.0	16804.1	15913.4	15840.8	15556.7	16052.3	15074.0	14108.4
57.5°	16131.3	16195.4	16588.4	17855.1	19234.9	18478.8	18346.3	17539.0	17218.5	16127.0	15360.2
60°	15954.0	16071.5	16919.5	18803.5	20717.4	20604.2	20491.0	19134.5	18055.8	17007.0	16238.1
62.5°	14691.6	14856.1	16212.5	18634.7	21219.4	21926.3	21785.3	20129.9	18613.3	17434.3	16391.8
65°	12312.1	12433.8	14381.9	17103.2	20505.9	22379.2	22327.9	20441.8	18700.9	17043.4	15338.8
67.5°	8776.9	9191.4	10996.2	14413.9	18395.4	21606.0	21693.5	20068.0	17878.6	15353.8	12703.0
70°	5517.4	5799.3	7093.8	10319.2	14747.2	18955.1	19243.5	18357.0	15516.1	11968.2	8503.5
72.5°	2631.6	2840.9	3763.6	6532.0	10408.9	14913.8	15142.3	15069.7	11998.0	7540.2	4387.4
75°	1172.7	1251.7	1796.4	3334.3	6719.9	10024.4	10616.0	10714.3	7497.4	3689.0	1706.7
77.5°	598.1	600.2	841.6	1614.8	3355.7	5980.9	6098.3	6442.2	4064.9	1625.5	593.8
80°	318.2	339.6	446.4	762.5	1740.9	2945.6	2930.6	3221.1	1802.8	796.8	198.6
82.5°	143.1	158.1	252.0	399.5	850.2	1117.2	1204.7	1317.9	773.2	508.4	87.5
85°	42.7	51.3	123.9	200.7	307.6	322.5	361.0	465.7	437.9	361.0	44.8
87.5°	6.4	6.4	51.3	55.5	44.8	57.7	59.8	66.2	141.0	132.5	23.5
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°	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7	2601.7
2.5°	2605.9	2591.0	2537.6	2492.7	2454.3	2430.8	2403.1	2385.9	2377.4	2371.0	2373.1
5°	2616.6	2580.4	2488.4	2415.9	2360.4	2300.5	2259.9	2236.4	2225.7	2208.6	2208.6
7.5°	2676.5	2618.8	2490.6	2379.5	2283.4	2202.2	2125.4	2097.6	2078.4	2074.1	2069.8
10°	2761.8	2689.3	2514.1	2360.4	2223.6	2112.5	2003.6	1907.5	1832.7	1787.9	1781.5
12.5°	2868.7	2764.0	2550.4	2347.5	2172.3	1975.8	1687.5	1493.1	1362.8	1322.2	1328.6
15°	2967.0	2853.8	2586.7	2336.8	2078.4	1638.4	1311.5	1089.3	1023.2	1016.8	1018.9
17.5°	3084.5	2949.9	2629.5	2321.8	1819.9	1251.7	974.0	914.3	927.0	948.4	946.3
20°	3206.1	3052.4	2680.7	2232.2	1452.5	942.0	860.8	867.2	886.4	905.7	910.0
22.5°	3336.5	3169.9	2740.6	2016.4	1108.6	820.2	815.9	824.5	843.7	865.1	869.3
25°	3515.9	3317.2	2785.4	1734.5	839.5	758.3	766.8	781.8	798.9	822.3	826.6
27.5°	3746.6	3515.9	2808.9	1367.0	726.3	702.7	704.9	726.3	747.6	769.0	769.0
30°	4045.6	3753.0	2761.8	1033.8	670.7	649.3	640.8	653.6	681.4	702.7	704.9
32.5°	4312.6	3977.3	2638.0	790.4	630.2	600.2	578.9	581.0	591.6	604.5	606.6
35°	4579.7	4195.2	2426.5	664.3	587.4	553.2	521.2	504.1	495.5	489.1	495.5
37.5°	4921.4	4466.5	2144.5	604.5	551.1	508.4	463.6	427.2	397.3	378.1	382.3
40°	5361.5	4842.4	1811.3	566.1	516.9	465.7	405.9	358.9	307.6	290.5	282.0
42.5°	6087.7	5412.7	1461.1	534.0	482.7	420.8	346.1	282.0	235.0	217.9	222.1
45°	7234.7	6132.6	1125.7	499.8	448.6	371.6	290.5	222.1	183.7	175.2	179.4
47.5°	8755.6	7063.8	867.2	461.4	405.9	318.2	228.6	175.2	151.6	149.5	147.4
50°	10186.7	7931.1	724.1	418.6	354.6	264.8	188.0	147.4	132.5	130.3	130.3
52.5°	11481.2	8552.6	589.5	369.5	299.1	217.9	158.1	130.3	117.5	111.1	111.1
55°	12632.5	8958.5	478.4	309.7	235.0	173.0	136.7	117.5	102.5	94.0	91.8
57.5°	13501.8	9007.6	358.9	247.8	175.2	134.6	117.5	102.5	85.4	74.8	70.5
60°	13873.5	8582.6	264.8	188.0	130.3	106.8	94.0	83.3	64.1	53.4	51.3
62.5°	13499.7	7756.0	196.5	143.1	100.4	79.1	66.2	62.0	44.8	32.0	29.9
65°	12160.4	6561.9	155.9	108.9	74.8	57.7	42.7	40.6	27.8	15.0	12.8
67.5°	9742.4	5139.3	123.9	81.2	53.4	38.4	27.8	25.7	15.0	4.3	4.3
70°	6335.4	3285.2	100.4	59.8	34.1	25.7	17.1	12.8	8.6	2.1	0.0
72.5°	3133.6	1535.8	81.2	47.0	23.5	12.8	6.4	4.3	6.4	0.0	0.0
75°	1215.4	546.8	59.8	32.0	12.8	6.4	4.3	0.0	2.1	0.0	0.0
77.5°	403.7	181.6	36.3	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	149.5	70.5	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	59.8	27.8	12.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	17.1	8.6	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	12.8	8.6	6.4	4.3	2.1	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)