

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: P646886

Luminaire Tested: **GALN-SA4C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17822.6 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

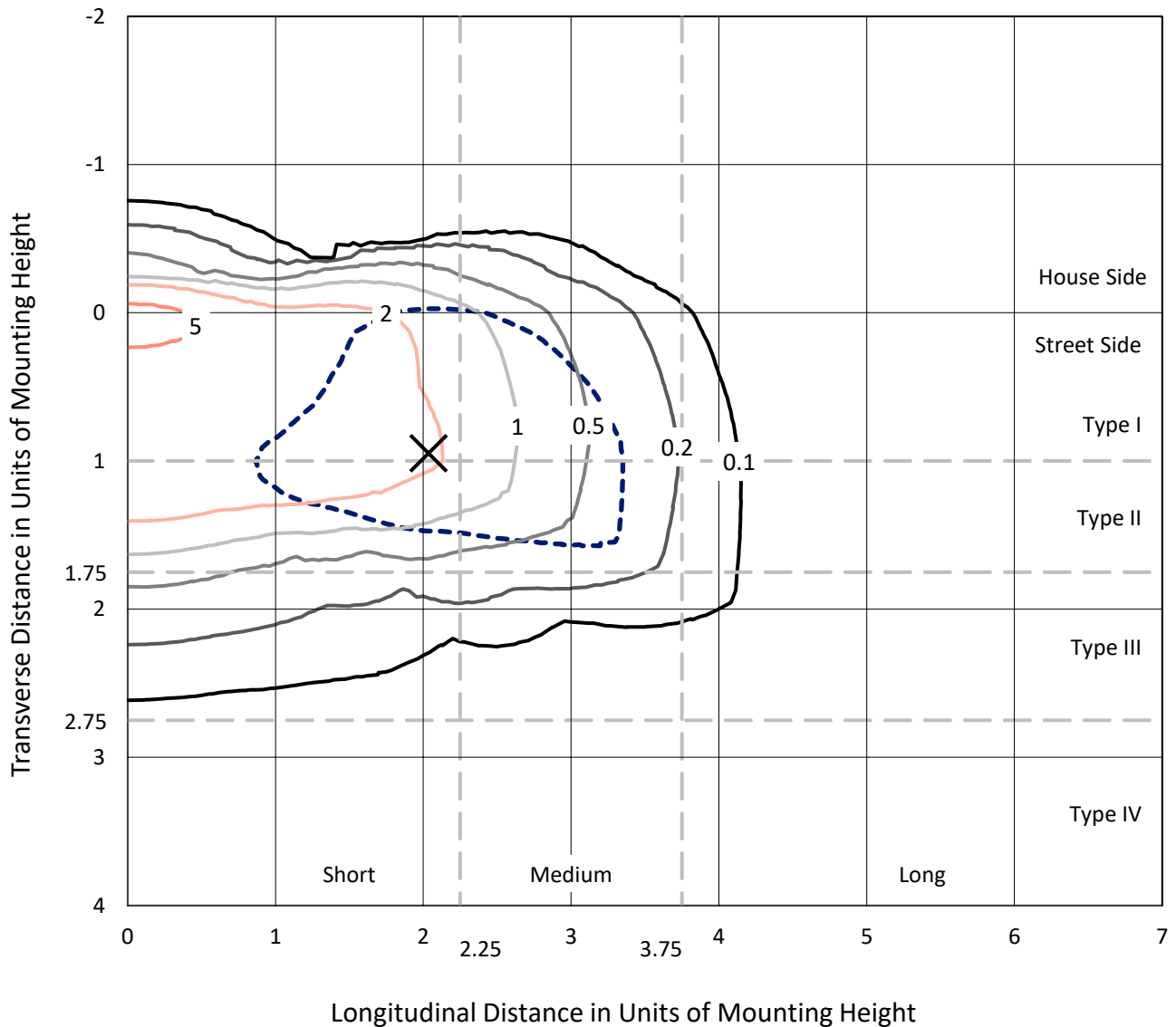
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

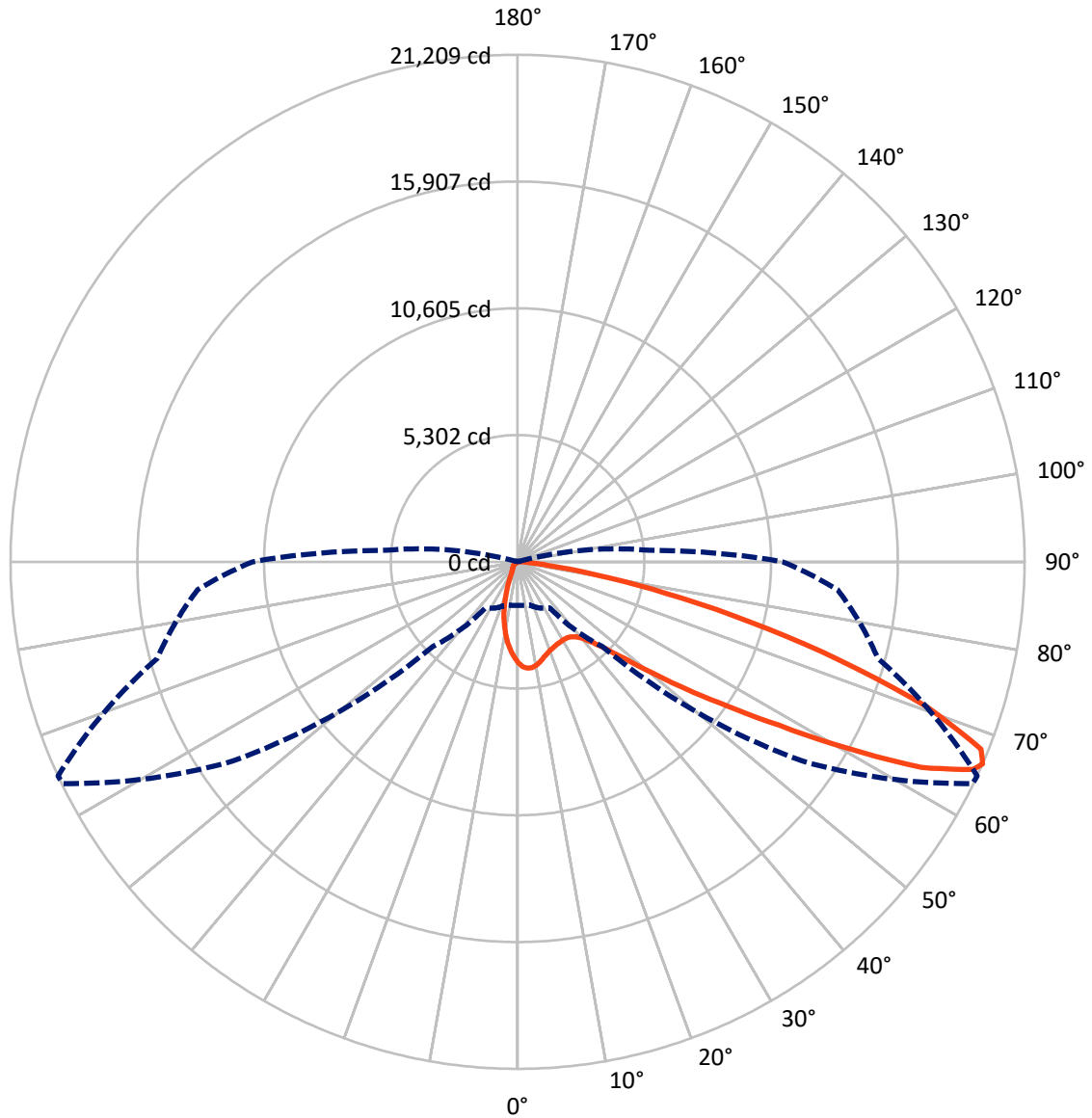
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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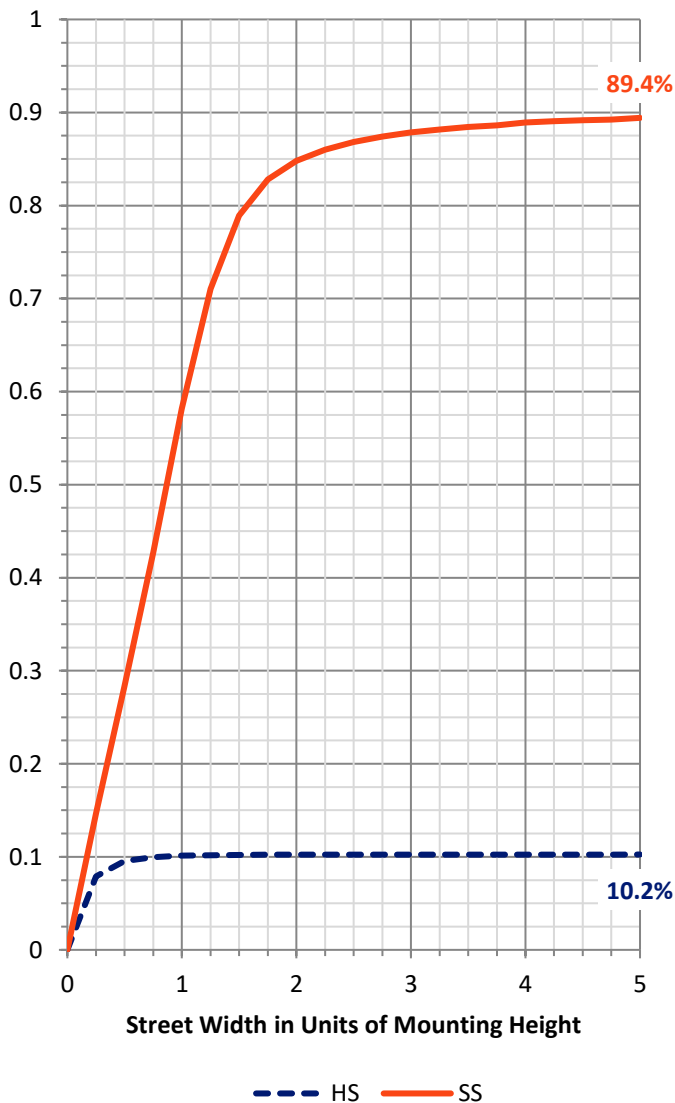
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.1	0.0	1843.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15979.5	0.0	15979.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	17822.6	0.0	17822.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.9
10°-20°	753.1	4.2
20°-30°	1078.9	6.1
30°-40°	1575.8	8.8
40°-50°	2642.3	14.8
50°-60°	4409.6	24.7
60°-70°	4680.6	26.3
70°-80°	2119.8	11.9
80°-90°	216.9	1.2
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°	17822.6	100.0
0°-180°	17822.6	100.0

Coefficient of Utilization



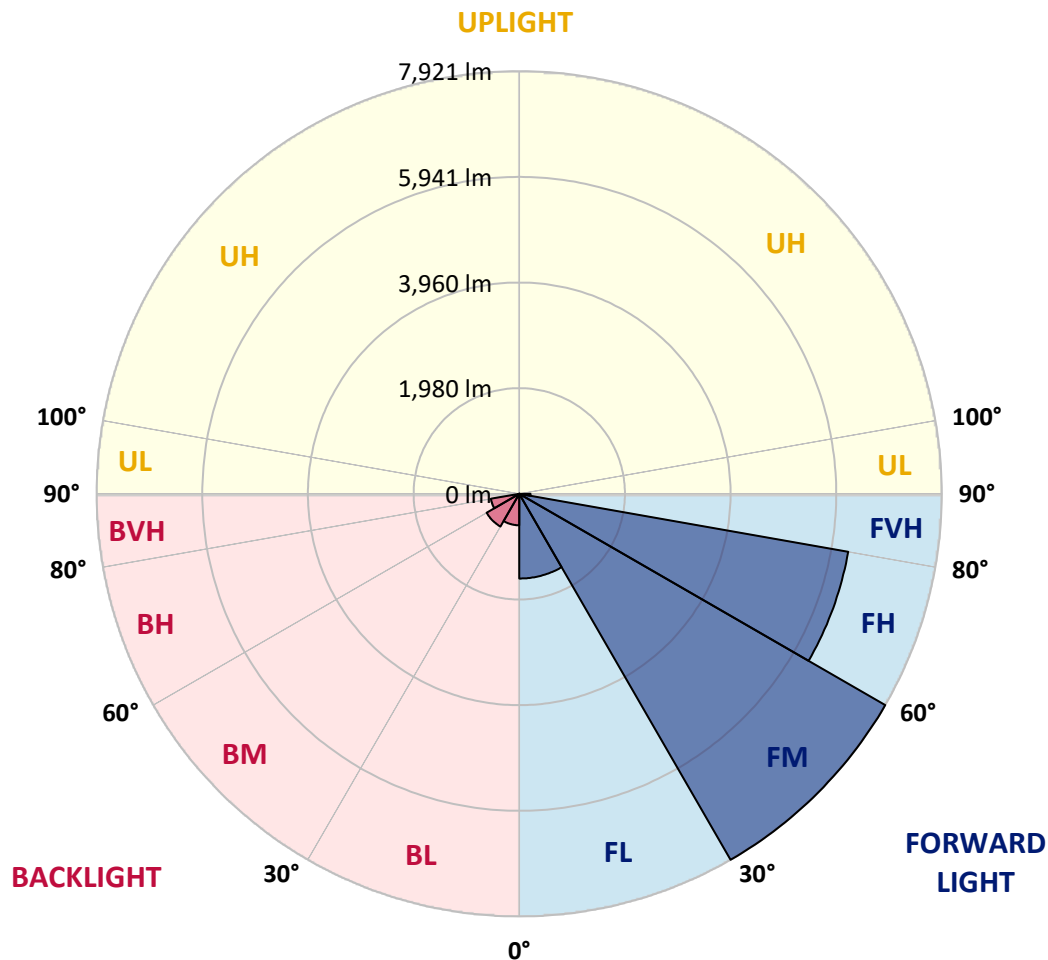
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.1	8.9			
FM (30°-60°)	7920.8	44.4			
FH (60°-80°)	6260.7	35.1			G3/7500
FVH (80°-90°)	210.0	1.2			G2/225
BL (0°-30°)	589.6	3.3	B2/1000		
BM (30°-60°)	706.8	4.0	B1/1000		
BH (60°-80°)	539.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4
2.5°	4453.9	4458.7	4464.7	4473.2	4479.2	4461.1	4435.9	4407.0	4400.9	4339.5	4264.9
5°	4215.6	4222.8	4275.7	4304.6	4369.7	4428.6	4465.9	4470.8	4468.3	4410.6	4291.4
7.5°	3876.1	3896.6	3948.4	3998.9	4120.5	4232.4	4364.8	4457.5	4463.6	4447.9	4299.8
10°	3600.5	3613.7	3640.2	3740.1	3841.2	4012.2	4197.5	4372.0	4386.5	4449.1	4292.6
12.5°	3385.0	3404.2	3436.7	3513.8	3635.4	3796.7	4007.3	4242.1	4272.1	4426.2	4272.1
15°	3234.5	3244.1	3276.6	3352.5	3470.4	3619.7	3832.8	4106.1	4132.5	4396.2	4268.5
17.5°	3163.5	3174.3	3197.2	3257.4	3354.9	3493.4	3701.6	3996.5	4030.2	4376.9	4281.8
20°	3182.7	3192.4	3193.5	3224.9	3291.1	3407.9	3605.2	3894.2	3937.5	4364.8	4303.4
22.5°	3292.3	3293.5	3279.0	3264.6	3287.5	3371.8	3546.3	3829.2	3873.7	4362.4	4328.7
25°	3456.0	3459.6	3435.6	3385.0	3339.3	3382.6	3533.1	3787.1	3826.8	4356.4	4344.4
27.5°	3682.3	3681.1	3673.9	3589.6	3459.6	3430.7	3543.9	3764.2	3797.9	4339.5	4350.4
30°	3998.9	3989.2	3973.6	3878.5	3679.9	3547.5	3589.6	3749.7	3781.0	4315.5	4334.8
32.5°	4310.6	4346.7	4344.4	4254.1	4006.1	3755.7	3684.7	3769.0	3791.8	4299.8	4311.9
35°	4674.2	4673.0	4765.7	4732.0	4441.9	4021.8	3847.2	3832.8	3850.8	4310.6	4301.0
37.5°	5011.3	5042.5	5187.0	5221.9	4957.1	4397.3	4077.2	3970.0	3976.0	4384.1	4327.5
40°	5431.4	5491.6	5707.1	5823.8	5590.3	4954.7	4416.6	4221.6	4222.8	4564.7	4427.5
42.5°	5973.0	6068.2	6269.2	6464.2	6339.0	5614.3	4925.8	4620.0	4617.7	4882.5	4656.2
45°	6631.5	6697.7	6926.4	7235.8	7156.4	6535.2	5667.3	5237.6	5206.2	5403.7	5061.8
47.5°	7199.7	7290.0	7522.3	7875.0	8236.1	7659.5	6553.2	6086.2	6065.7	6233.1	5757.6
50°	7447.7	7527.1	7771.5	8266.2	9141.4	9135.3	7872.6	7324.9	7290.0	7380.2	6833.8
52.5°	7175.6	7250.3	7497.0	8113.4	9567.5	10933.7	9784.2	8878.9	8836.8	8721.3	8119.4
55°	6243.9	6305.3	6670.1	7377.8	9403.8	12132.7	12418.0	10799.0	10635.3	10186.2	9574.7
57.5°	4971.5	4940.3	5166.5	5988.7	8443.2	12534.7	15121.7	13190.8	12898.3	11452.5	10806.2
60°	3445.2	3541.4	3633.0	4174.6	6348.6	11837.8	16803.3	16197.8	15812.6	12698.5	11985.9
62.5°	2532.7	2596.5	2656.7	2907.1	3991.7	9451.9	17100.6	19286.7	18944.8	14021.4	13111.3
65°	2003.1	2007.8	2032.0	2278.7	2630.3	6146.4	15671.7	21028.5	20940.6	15295.0	13567.6
66°	1824.9	1826.1	1863.5	2128.3	2360.6	5005.2	14527.0	21160.9	21209.0	15600.7	13434.0
67.5°	1595.0	1590.2	1644.3	1912.8	2149.9	3608.8	12478.2	20624.1	20909.3	15835.5	12953.6
70°	1236.3	1230.2	1296.4	1604.6	1980.2	2407.5	8293.9	17708.6	18168.3	15355.2	11461.0
72.5°	823.4	828.2	941.3	1266.3	1889.9	2119.8	4989.6	13471.3	14121.3	12680.5	9016.2
75°	480.3	488.7	617.6	941.3	1640.7	2021.1	2824.0	9606.0	10021.3	8756.1	5616.8
77.5°	251.6	255.2	345.5	621.2	1258.0	1876.7	1881.5	6136.8	6331.8	4255.3	2223.3
80°	133.6	130.0	185.4	374.4	865.5	1648.0	1526.4	3249.0	3377.8	1263.9	562.2
82.5°	50.6	55.4	98.7	245.5	511.6	1183.3	1314.5	1436.1	1391.5	278.0	235.9
85°	9.6	12.1	42.1	145.6	257.6	494.8	969.0	704.2	652.5	104.8	136.0
87.5°	1.2	2.4	12.1	34.9	37.3	167.3	286.5	195.0	168.5	38.5	56.6
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°	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4	4226.4
2.5°	4228.8	4196.3	4088.0	3980.9	3871.3	3772.6	3705.2	3595.6	3568.0	3528.2	3505.3
5°	4220.4	4144.6	3936.3	3708.8	3497.0	3268.2	3093.6	2925.1	2834.9	2789.1	2772.3
7.5°	4196.3	4075.9	3750.9	3394.6	3055.1	2713.3	2415.9	2189.7	2044.0	1944.1	1876.7
10°	4148.2	3982.0	3535.5	3045.5	2532.7	2081.3	1704.5	1418.0	1196.5	1126.7	1129.2
12.5°	4098.8	3877.3	3294.7	2657.9	2022.3	1452.9	1053.3	827.0	721.1	686.1	678.9
15°	4053.0	3777.4	3058.8	2282.4	1505.9	941.3	678.9	599.5	570.6	564.5	563.4
17.5°	4029.0	3684.7	2807.1	1852.6	1050.9	639.2	544.1	522.4	514.0	508.0	505.6
20°	4008.5	3604.1	2566.4	1450.5	718.6	523.7	487.5	467.1	452.7	446.6	443.0
22.5°	3994.1	3521.0	2317.2	1123.1	550.1	464.6	432.1	405.7	385.2	378.0	373.2
25°	3972.4	3429.5	2065.6	821.0	463.5	412.9	375.6	344.3	317.8	304.6	302.2
27.5°	3941.2	3326.0	1790.0	607.9	414.1	367.1	321.4	282.9	256.4	241.9	243.1
30°	3890.6	3217.7	1514.3	482.7	374.4	320.2	270.8	233.5	208.3	197.4	196.2
32.5°	3830.4	3086.4	1261.6	414.1	338.3	278.0	226.3	193.8	174.5	166.2	164.9
35°	3773.8	2954.0	1004.0	371.9	300.9	239.5	190.2	162.5	148.1	140.9	142.0
37.5°	3742.5	2836.0	782.5	338.3	270.8	205.9	163.7	139.6	126.4	120.3	119.2
40°	3762.9	2739.8	622.3	308.2	237.2	177.0	140.9	120.3	107.1	98.7	98.7
42.5°	3859.3	2697.6	502.0	279.3	205.9	152.8	122.8	103.5	89.1	80.6	81.8
45°	4153.0	2742.1	420.1	252.8	177.0	132.4	105.9	85.5	72.2	66.2	65.0
47.5°	4640.5	2909.5	363.5	225.1	151.7	113.1	89.1	71.0	57.8	52.9	51.8
50°	5492.7	3255.0	321.4	197.4	128.8	96.3	73.4	56.6	45.7	41.0	41.0
52.5°	6665.2	4008.5	291.3	166.2	108.4	81.8	60.2	45.7	36.1	32.5	31.3
55°	7890.7	4803.0	275.7	139.6	90.3	67.4	48.2	36.1	27.7	24.0	22.9
57.5°	9069.2	5426.6	257.6	113.1	72.2	51.8	37.3	27.7	19.3	16.8	15.7
60°	10199.4	5930.9	219.1	90.3	56.6	37.3	27.7	19.3	13.2	10.8	10.8
62.5°	11210.6	6224.6	172.1	72.2	43.3	26.5	18.1	14.4	9.6	7.2	7.2
65°	11328.6	5843.1	130.0	55.4	31.3	16.8	10.8	10.8	7.2	4.8	4.8
66°	11091.4	5519.2	114.4	50.6	27.7	14.4	9.6	8.5	6.0	3.6	3.6
67.5°	10561.8	4966.7	98.7	43.3	22.9	10.8	7.2	7.2	4.8	2.4	2.4
70°	9125.7	4056.6	78.2	32.5	16.8	8.5	4.8	4.8	3.6	2.4	2.4
72.5°	6955.3	3028.6	63.8	24.0	12.1	6.0	3.6	3.6	3.6	2.4	2.4
75°	4195.1	1631.1	49.3	18.1	10.8	4.8	2.4	3.6	4.8	3.6	2.4
77.5°	1545.6	554.9	38.5	14.4	8.5	4.8	2.4	2.4	4.8	3.6	3.6
80°	379.2	144.5	27.7	12.1	8.5	4.8	2.4	2.4	4.8	4.8	4.8
82.5°	175.8	61.4	19.3	10.8	8.5	4.8	2.4	2.4	3.6	4.8	4.8
85°	101.1	28.9	15.7	12.1	8.5	4.8	2.4	2.4	3.6	4.8	4.8
87.5°	41.0	14.4	14.4	12.1	9.6	6.0	2.4	2.4	2.4	3.6	3.6
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)