

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: P646892

Luminaire Tested: **GALN-SA4C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646892
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-SA4C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 17912.7 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

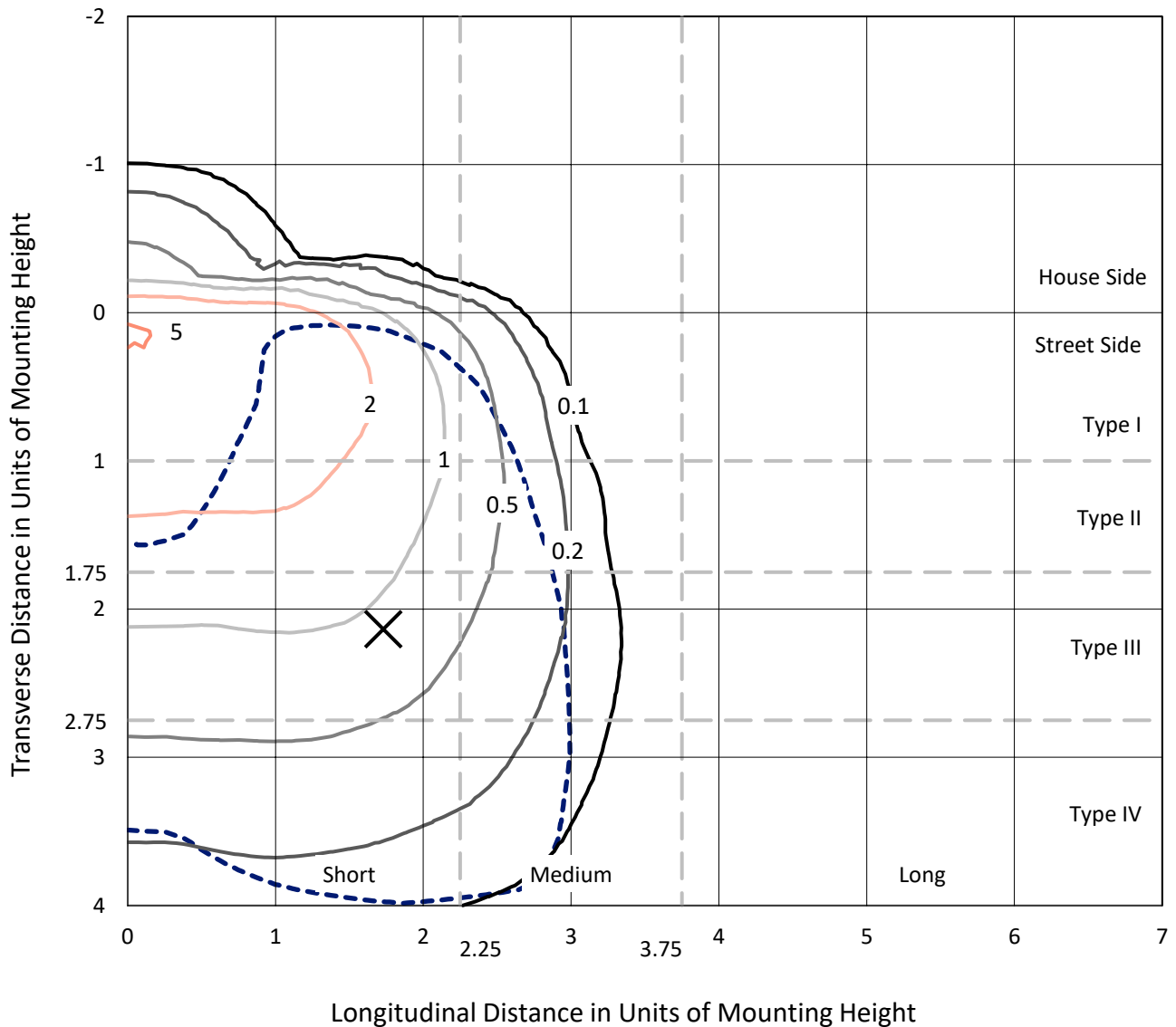
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

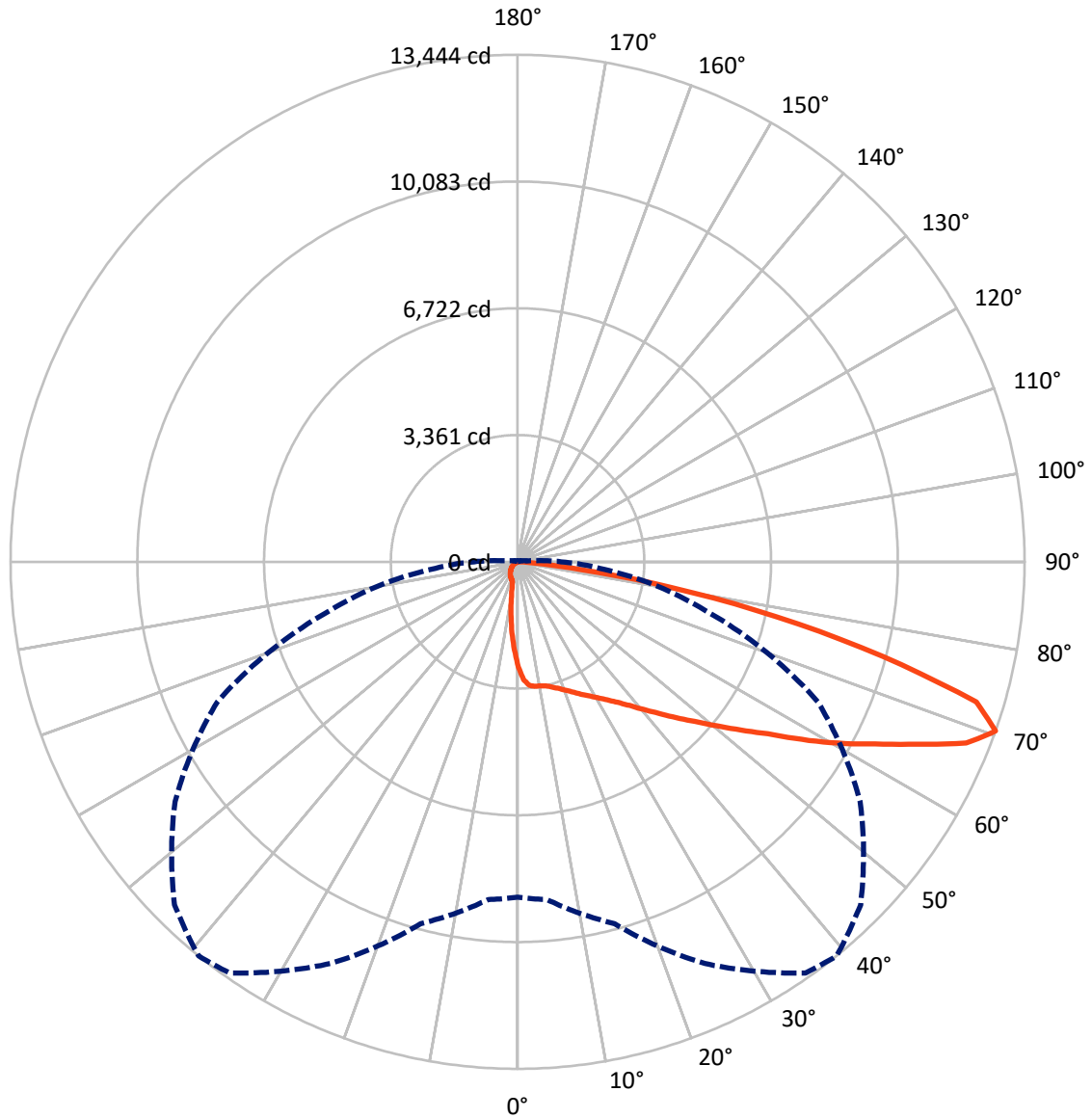
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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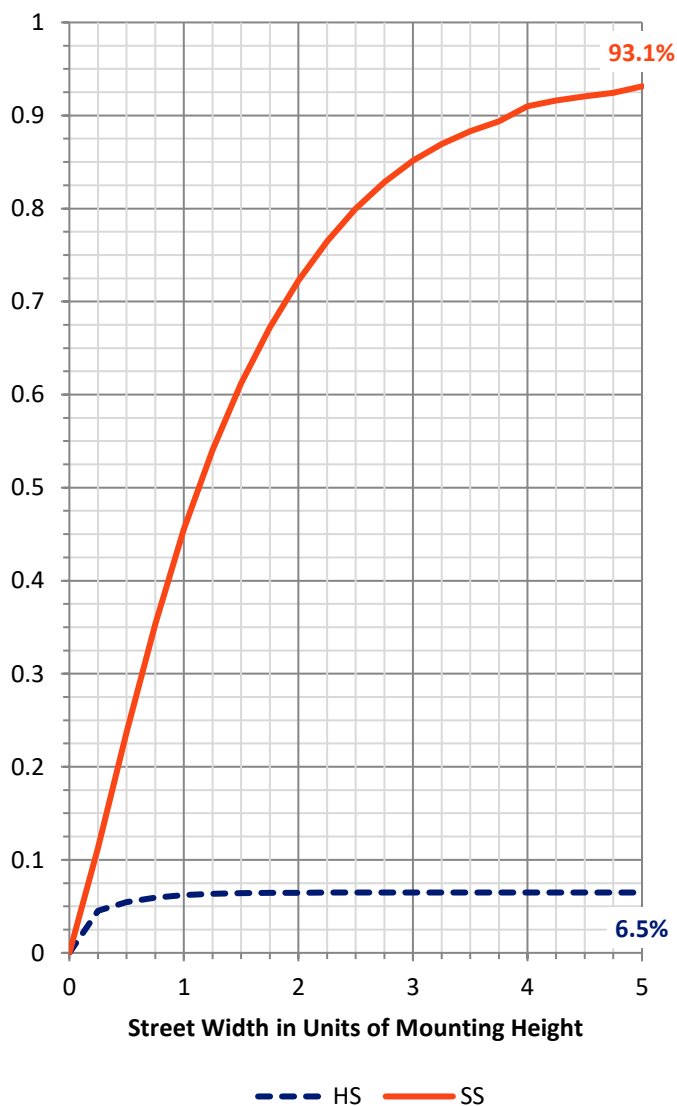
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.0	0.0	1168.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16744.7	0.0	16744.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	17912.7	0.0	17912.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	1.3
10°-20°	619.5	3.5
20°-30°	1037.9	5.8
30°-40°	1609.6	9.0
40°-50°	2550.7	14.2
50°-60°	3739.0	20.9
60°-70°	4792.5	26.8
70°-80°	3011.4	16.8
80°-90°	313.7	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°	17912.7	100.0
0°-180°	17912.7	100.0

Coefficient of Utilization



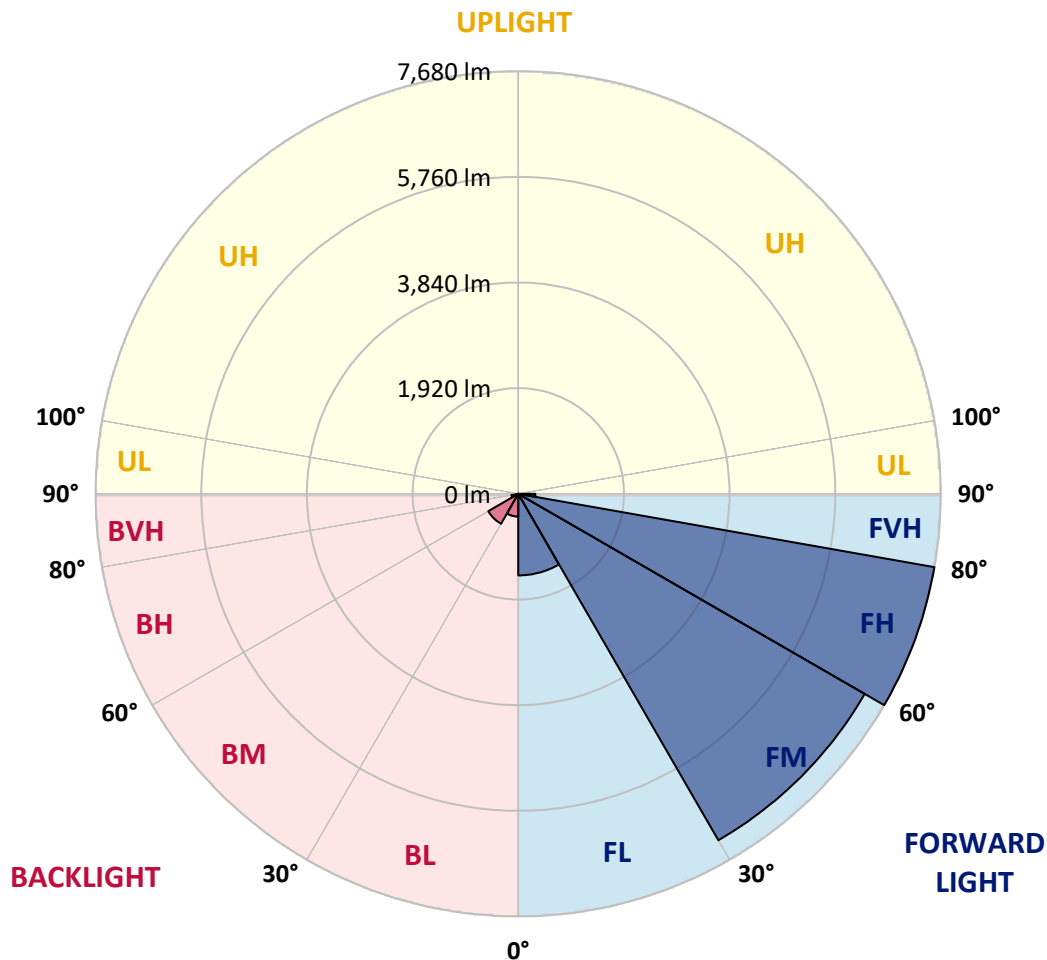
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.2	8.3			
FM (30°-60°)	7270.7	40.6			
FH (60°-80°)	7680.4	42.9			G4/12000
FVH (80°-90°)	311.4	1.7			G3/500
BL (0°-30°)	413.6	2.3	B1/500		
BM (30°-60°)	628.6	3.5	B1/1000		
BH (60°-80°)	123.5	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0
2.5°	3229.6	3218.7	3204.3	3187.4	3139.3	3130.8	3101.9	3040.5	2967.1	2907.0	2823.9
5°	3382.4	3388.4	3377.5	3347.5	3312.6	3292.1	3256.0	3160.9	3065.8	2944.2	2808.2
7.5°	3417.3	3429.4	3416.1	3387.2	3353.5	3331.8	3302.9	3221.1	3110.4	2972.0	2785.4
10°	3413.7	3428.1	3419.8	3393.2	3365.6	3345.1	3313.8	3248.8	3159.7	3014.1	2792.6
12.5°	3407.7	3427.0	3425.7	3412.5	3389.6	3373.9	3354.7	3296.9	3213.9	3075.5	2832.3
15°	3390.9	3414.9	3436.6	3447.4	3448.6	3448.6	3424.5	3363.1	3283.7	3156.1	2884.1
17.5°	3398.1	3425.7	3479.9	3511.2	3532.9	3530.5	3505.2	3438.9	3351.1	3239.2	2938.2
20°	3442.6	3479.9	3555.8	3618.3	3640.0	3632.8	3599.1	3522.0	3422.1	3310.2	2991.2
22.5°	3552.2	3585.8	3680.9	3754.3	3770.0	3750.7	3702.6	3597.9	3507.6	3387.2	3055.0
25°	3715.8	3755.6	3843.4	3898.8	3898.8	3888.0	3820.6	3697.8	3603.9	3494.4	3138.0
27.5°	3914.5	3948.1	4034.8	4084.1	4055.2	4024.0	3956.6	3808.5	3718.2	3629.1	3237.9
30°	4115.4	4137.1	4228.6	4250.3	4220.2	4180.4	4108.2	3960.2	3880.7	3812.1	3382.4
32.5°	4305.6	4352.6	4428.4	4423.6	4382.7	4363.4	4297.2	4139.6	4095.0	4087.8	3584.7
35°	4495.8	4531.9	4599.3	4616.2	4580.1	4576.5	4528.3	4411.6	4412.8	4459.7	3900.0
37.5°	4659.6	4692.0	4771.4	4808.8	4816.0	4834.1	4814.8	4737.8	4847.3	4976.1	4317.7
40°	4796.7	4842.5	4943.6	5008.6	5083.2	5149.4	5153.1	5169.9	5390.2	5611.7	4863.0
42.5°	4903.9	4967.7	5114.6	5234.9	5405.8	5490.1	5557.5	5650.2	6020.9	6351.9	5505.7
45°	5043.5	5116.9	5299.9	5488.9	5756.1	5894.5	5988.4	6236.4	6762.4	7213.8	6165.3
47.5°	5274.6	5313.1	5499.7	5775.3	6126.8	6324.2	6507.2	6882.7	7558.1	7962.5	6714.2
50°	5571.9	5597.2	5738.1	6120.8	6575.8	6835.8	7169.2	7611.0	8383.8	8583.6	7024.8
52.5°	5900.5	5909.0	6014.9	6501.2	7078.9	7406.4	7779.5	8324.8	9056.6	9026.6	7230.6
55°	6282.1	6270.1	6360.4	6914.0	7674.8	8049.2	8483.6	9055.5	9640.5	9340.7	7348.6
57.5°	6719.1	6686.6	6774.4	7461.8	8437.9	8885.7	9327.5	9686.2	10093.0	9604.4	7405.1
60°	7176.4	7111.4	7216.2	8076.8	9337.1	9762.1	10129.1	10225.4	10569.7	9813.8	7307.7
62.5°	7541.2	7542.4	7737.4	8731.6	10261.5	10633.5	10828.5	10915.2	10980.2	9768.0	6794.9
65°	8110.5	8129.8	8441.5	9640.5	11331.7	11654.3	11787.8	11506.2	10998.3	9199.9	6024.6
67.5°	8698.0	8759.3	9329.9	10892.3	12567.9	12827.8	12655.7	11620.5	10507.1	7903.5	4568.0
70°	8889.3	8990.4	9930.6	11754.2	13309.4	13444.1	12861.6	11087.3	8783.4	5284.2	2299.0
72.5°	8145.5	8309.1	9585.1	11439.9	12836.3	12719.5	11507.4	9298.6	5584.0	2006.6	701.7
75°	5744.1	5816.3	7966.1	9490.0	10324.2	9993.1	8753.3	5994.4	2296.7	563.4	240.8
77.5°	2965.9	2931.0	4737.8	6296.6	7363.0	7020.0	5732.0	3103.1	870.3	234.7	149.2
80°	1533.5	1558.8	2049.9	3299.3	4494.7	4135.9	3056.2	1438.4	463.5	130.0	114.3
82.5°	859.4	806.5	1178.4	1440.8	2101.7	1647.9	1172.4	1018.4	202.2	78.2	108.4
85°	156.4	163.7	646.4	778.8	729.4	463.5	378.0	680.1	59.0	43.3	75.8
87.5°	2.4	2.4	125.2	223.9	142.0	65.0	119.2	97.5	12.1	16.8	13.2
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°	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0	2795.0
2.5°	2781.8	2736.0	2650.5	2566.3	2459.2	2371.3	2312.3	2250.9	2188.3	2193.1	2207.6
5°	2733.6	2654.1	2485.6	2307.5	2136.6	1982.5	1830.8	1694.8	1639.4	1588.9	1591.3
7.5°	2685.5	2573.5	2326.8	2047.5	1788.7	1526.3	1336.1	1179.6	1096.6	1034.0	1015.9
10°	2663.8	2515.7	2181.1	1797.1	1430.0	1143.5	899.2	771.6	672.8	641.6	650.0
12.5°	2673.4	2486.8	2049.9	1570.9	1133.9	796.9	625.9	560.9	539.3	535.7	533.2
15°	2691.5	2466.4	1921.1	1320.5	833.0	592.2	526.0	514.0	511.5	509.2	510.4
17.5°	2715.5	2448.4	1783.9	1085.7	639.2	517.6	498.3	492.4	491.1	491.1	491.1
20°	2739.6	2427.8	1631.0	876.3	533.2	488.7	476.7	473.1	471.8	471.8	470.7
22.5°	2767.3	2409.8	1475.7	688.5	491.1	468.2	457.4	455.0	453.8	452.6	452.6
25°	2807.1	2387.0	1310.8	563.4	464.6	449.0	438.2	435.7	434.6	429.7	431.0
27.5°	2860.0	2370.1	1141.1	486.3	440.5	424.9	417.7	414.1	411.7	408.0	409.3
30°	2932.2	2355.7	960.6	444.2	412.9	399.6	392.4	390.0	387.6	384.0	384.0
32.5°	3057.4	2361.7	770.4	410.4	387.6	371.9	364.7	362.3	359.9	356.3	356.3
35°	3245.1	2396.6	616.3	381.6	357.5	341.9	334.7	334.7	331.1	326.2	325.0
37.5°	3552.2	2485.6	494.7	353.9	328.6	314.1	305.8	303.3	299.7	292.5	291.3
40°	3914.5	2624.1	416.5	326.2	302.2	287.7	280.5	273.3	263.6	256.4	255.2
42.5°	4369.5	2766.1	361.1	298.5	276.9	263.6	255.2	243.1	228.7	219.1	217.9
45°	4843.7	2896.1	323.8	273.3	252.8	241.9	232.3	213.1	195.0	183.0	181.7
47.5°	5197.6	2920.2	293.7	249.2	232.3	221.5	208.3	184.2	160.1	149.2	145.6
50°	5364.9	2803.5	262.4	225.1	211.9	199.8	183.0	155.3	128.8	115.6	113.1
52.5°	5423.8	2601.2	237.1	203.4	191.4	177.0	156.4	125.2	101.1	87.9	86.7
55°	5399.8	2346.0	214.2	183.0	167.3	150.5	130.0	99.9	74.6	63.8	61.4
57.5°	5273.4	2021.0	191.4	162.5	143.2	126.4	103.5	74.6	50.6	41.0	39.7
60°	4932.7	1578.1	168.5	139.6	121.6	103.5	81.8	52.9	31.3	22.9	22.9
62.5°	4357.4	1171.2	146.8	116.7	102.3	83.1	57.8	33.7	16.8	12.1	10.8
65°	3641.2	864.3	122.8	98.7	85.4	65.0	41.0	20.4	8.5	3.6	2.4
67.5°	2541.0	533.2	102.3	80.6	69.8	47.0	25.3	8.5	3.6	0.0	0.0
70°	1154.4	254.0	78.2	61.4	52.9	33.7	13.2	4.8	2.4	0.0	0.0
72.5°	358.7	133.6	55.4	44.6	36.1	21.7	7.2	3.6	2.4	0.0	0.0
75°	166.1	85.4	34.9	24.0	20.4	10.8	4.8	2.4	1.2	0.0	0.0
77.5°	123.9	66.2	20.4	13.2	10.8	7.2	3.6	2.4	1.2	0.0	0.0
80°	108.4	33.7	12.1	8.5	6.0	4.8	2.4	1.2	0.0	0.0	0.0
82.5°	97.5	16.8	7.2	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
85°	52.9	9.6	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.6	4.8	3.6	2.4	2.4	1.2	1.2	1.2	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)