

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: P647125

Luminaire Tested: **GALN-SA8C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33230.5 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

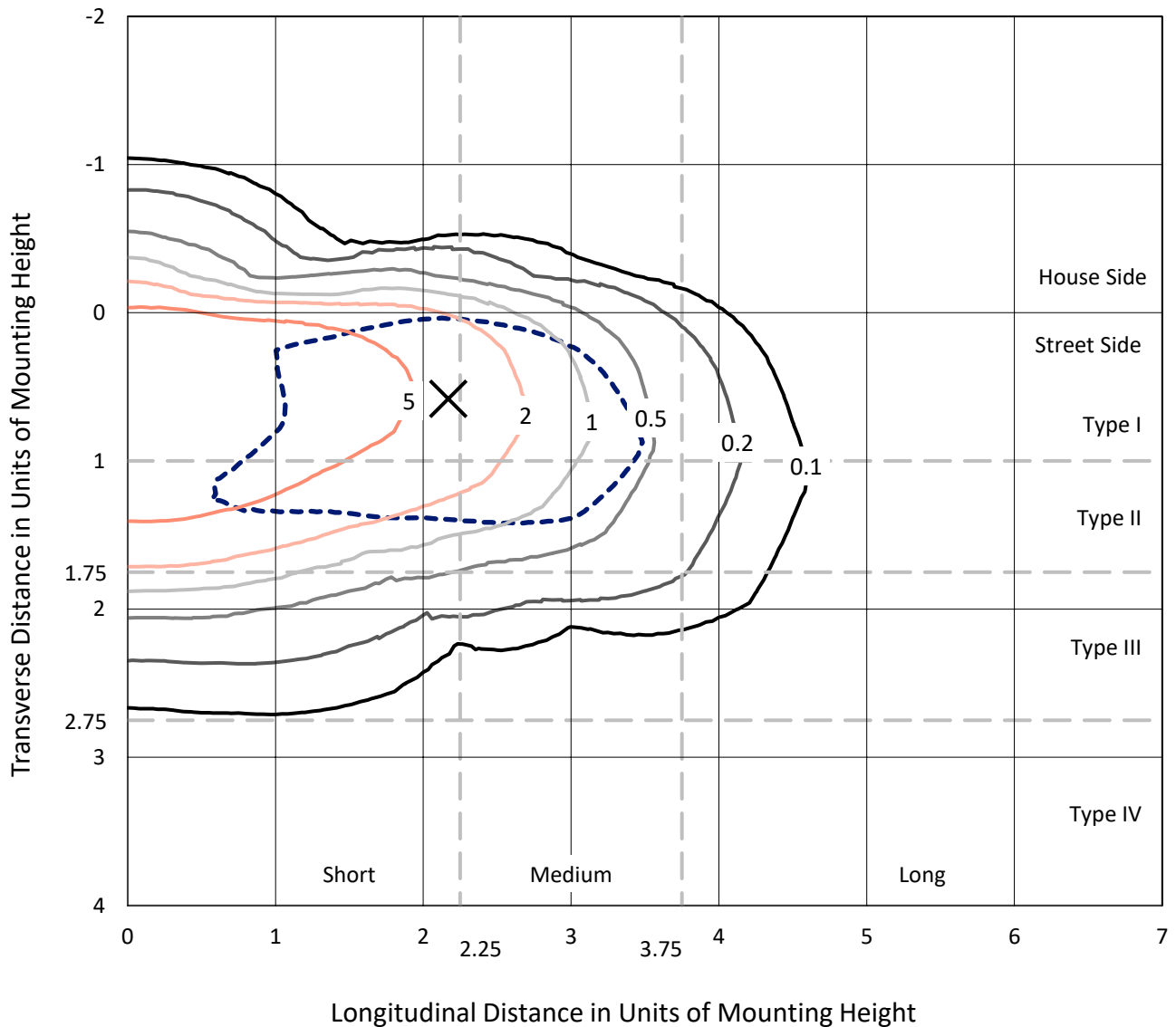
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

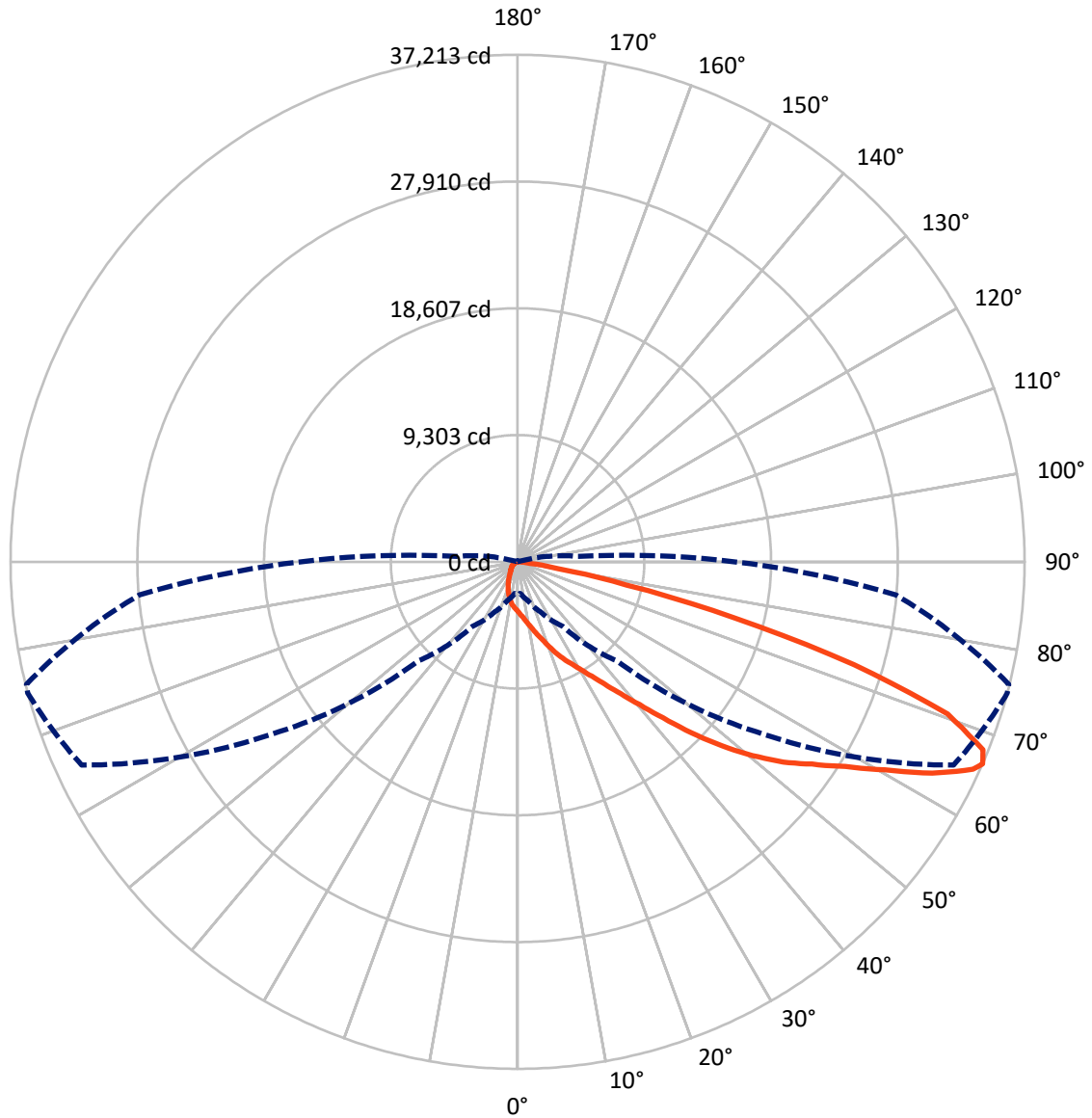
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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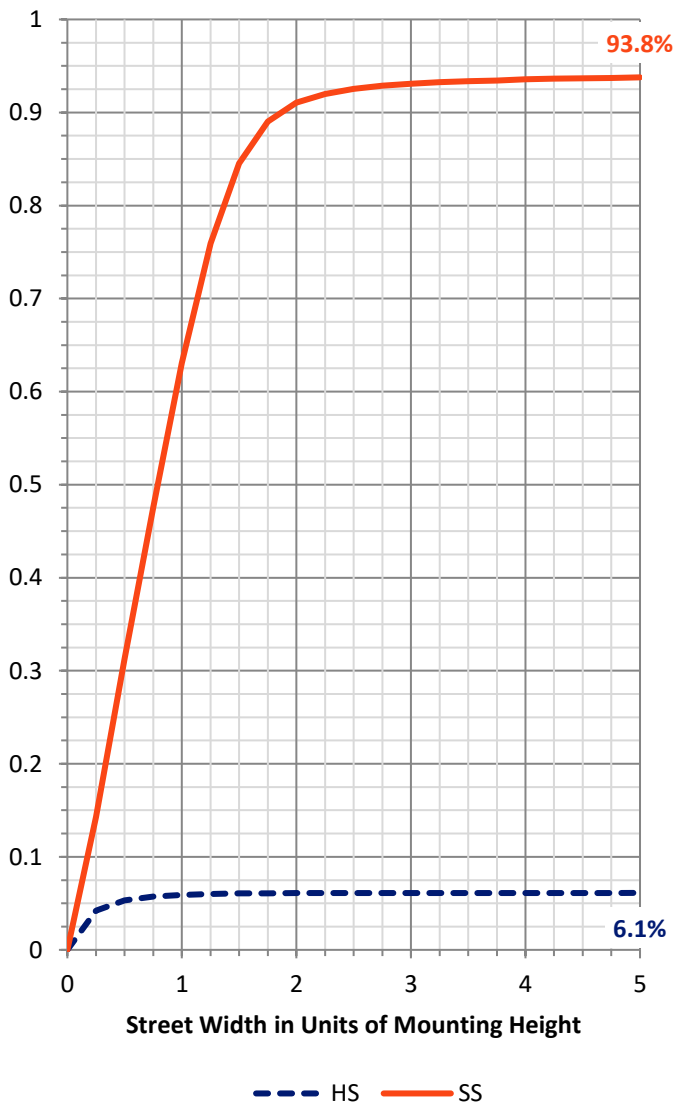
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2051.5	0.0	2051.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	31179.0	0.0	31179.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	33230.5	0.0	33230.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.1
10°-20°	1031.6	3.1
20°-30°	1781.3	5.4
30°-40°	3213.1	9.7
40°-50°	5804.6	17.5
50°-60°	9049.4	27.2
60°-70°	8596.5	25.9
70°-80°	3221.8	9.7
80°-90°	181.8	0.5
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°	33230.5	100.0
0°-180°	33230.5	100.0

Coefficient of Utilization

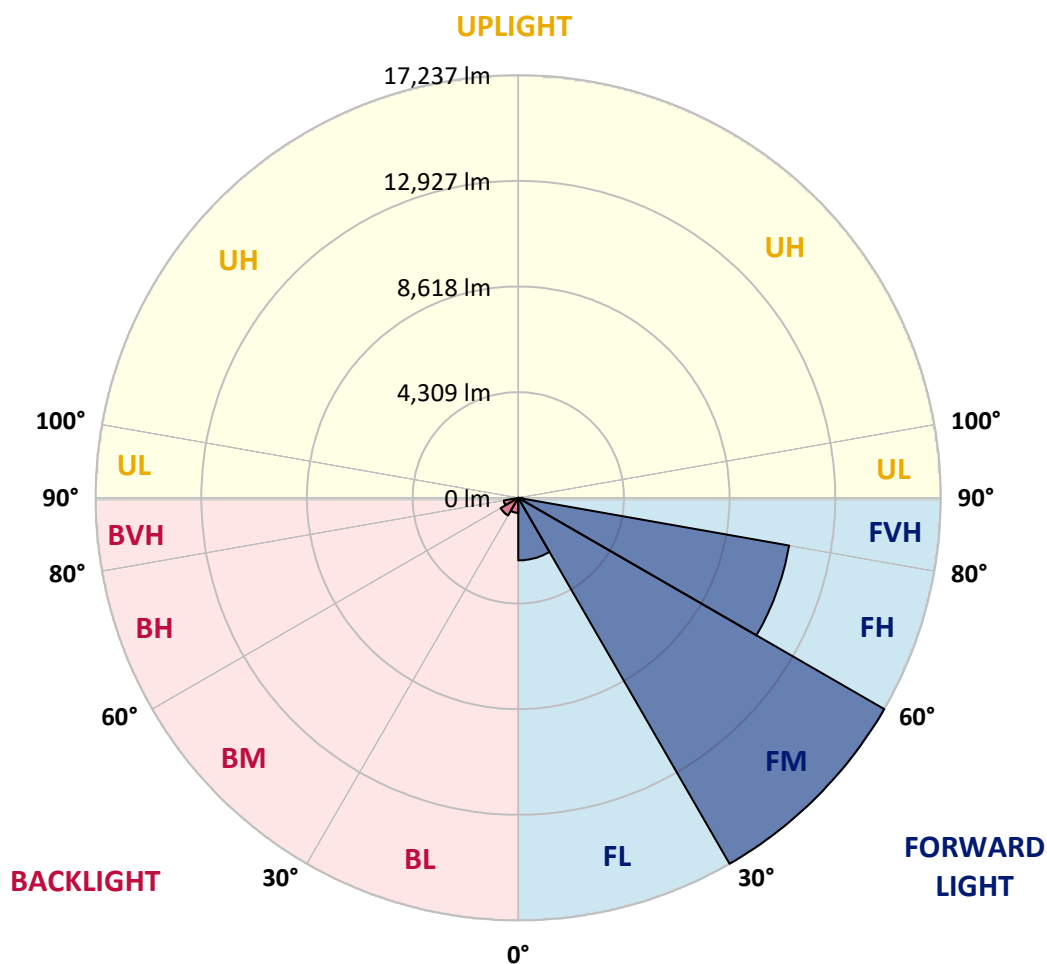


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.7	7.7			
FM (30°-60°)	17236.6	51.9			
FH (60°-80°)	11219.2	33.8			G4/12000
FVH (80°-90°)	172.4	0.5			G2/225
BL (0°-30°)	612.7	1.8	B2/1000		
BM (30°-60°)	830.4	2.5	B1/1000		
BH (60°-80°)	599.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1
2.5°	4341.7	4287.7	4304.9	4280.3	4223.8	4140.3	4066.5	3960.9	3855.3	3838.0	3720.1
5°	4914.3	4899.5	4879.8	4808.6	4769.3	4641.5	4489.2	4307.4	4088.7	4049.4	3835.6
7.5°	5304.9	5297.5	5307.4	5270.5	5236.2	5120.7	4958.5	4710.3	4371.3	4349.1	3992.8
10°	5432.7	5452.3	5489.2	5548.2	5602.2	5565.4	5442.6	5133.0	4737.3	4673.4	4172.2
12.5°	5359.0	5381.1	5469.6	5626.8	5801.2	5902.0	5852.8	5626.8	5125.6	5074.0	4373.7
15°	5169.8	5196.8	5322.1	5565.4	5877.4	6162.4	6285.3	6123.1	5577.7	5494.2	4617.0
17.5°	4889.7	4929.0	5108.4	5430.3	5857.8	6349.2	6695.7	6641.6	6059.2	5980.6	4882.3
20°	4678.3	4707.9	4860.2	5228.8	5774.2	6452.4	7086.3	7238.7	6653.9	6518.7	5194.3
22.5°	4818.4	4828.2	4879.8	5101.0	5624.4	6479.4	7430.4	7860.3	7285.3	7165.0	5518.7
25°	5503.9	5405.7	5354.1	5304.9	5592.4	6454.9	7742.4	8509.0	7914.4	7786.6	5840.6
27.5°	6585.1	6540.9	6280.4	5931.5	5865.1	6486.8	7948.8	9123.3	8506.6	8368.9	6155.1
30°	7762.0	7685.8	7526.2	7015.1	6501.6	6712.9	8098.6	9720.4	9206.8	9025.0	6442.6
32.5°	8843.2	8892.3	8654.0	8128.2	7533.6	7194.4	8292.8	10371.5	10010.3	9784.3	6776.7
35°	10103.7	10201.9	9835.9	9332.2	8636.8	8064.3	8671.2	11106.2	11030.0	10745.0	7292.7
37.5°	11383.9	11442.8	11219.2	10511.5	9885.0	9169.9	9383.8	12012.9	12285.6	12042.4	7909.5
40°	12460.0	12541.2	12376.6	11747.5	11079.1	10450.2	10418.2	13000.6	13779.5	13528.9	8828.5
42.5°	13283.2	13344.7	13349.5	12904.8	12302.8	12017.8	11737.7	14261.2	15651.9	15361.9	9894.8
45°	14322.6	14411.0	14359.4	14057.2	13607.5	13555.9	13411.0	15784.6	17892.8	17526.7	11278.2
47.5°	15929.5	15988.5	15860.8	15504.4	15047.5	15128.5	15042.5	17492.3	20177.9	19863.4	12710.7
50°	17045.0	17143.3	17325.2	17467.7	17136.0	16836.2	16580.7	19087.0	22347.5	22064.9	14175.1
52.5°	17032.8	17194.9	17770.0	18487.4	19212.2	19121.3	18386.6	20848.7	24418.9	24070.0	15551.2
55°	15885.3	16199.8	17045.0	18317.9	20325.3	21325.4	20991.2	22888.1	26207.7	25971.8	17145.8
57.5°	13516.6	13708.3	14882.8	16661.8	19703.6	22362.2	24008.6	25652.3	28352.7	28242.2	19622.6
60°	9091.3	9177.4	10688.5	12887.6	16774.8	21327.8	26219.9	28996.5	30994.2	30940.1	22514.6
62.5°	5209.1	5245.9	6341.8	8197.0	11936.7	18074.6	26406.7	33122.0	34161.4	34190.9	25861.2
65°	2803.6	2823.3	3707.8	4811.1	7263.3	12882.7	23745.6	35382.6	36721.7	36778.2	27935.0
66°	2420.3	2326.9	2951.0	4101.0	5779.2	10253.5	22062.5	35301.5	37213.2	37151.7	27861.3
67.5°	1840.4	1923.9	2356.4	3152.5	4282.8	7290.3	18214.7	33731.4	36839.7	36648.0	26728.6
70°	1317.0	1351.4	1678.2	2248.3	2916.6	4000.2	11639.4	28016.1	33483.2	33225.2	23286.2
72.5°	850.2	887.1	1189.2	1626.6	2108.2	2184.4	6516.3	20241.8	25814.6	25777.7	17536.5
75°	606.9	641.3	786.3	1164.7	1584.9	1351.4	3137.7	13642.0	16411.1	16300.6	10848.2
77.5°	439.8	457.0	525.9	761.7	1132.8	968.1	1454.6	7285.3	8169.9	8555.7	4793.8
80°	253.1	267.9	366.1	464.4	766.6	660.9	695.4	2924.0	3014.9	2869.9	1498.8
82.5°	125.3	142.5	218.7	317.0	479.1	444.7	319.5	879.6	928.8	904.2	378.4
85°	29.5	36.9	122.9	208.8	233.4	199.0	154.8	258.0	319.5	312.0	144.9
87.5°	2.4	4.9	44.2	36.9	39.3	66.3	54.0	66.3	103.2	95.8	51.6
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°	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1	3634.1
2.5°	3666.0	3619.3	3484.2	3351.6	3240.9	3125.4	3019.8	2958.4	2933.8	2906.8	2919.0
5°	3717.6	3604.6	3331.8	3096.0	2865.0	2668.5	2511.2	2410.5	2361.3	2353.9	2341.6
7.5°	3786.4	3592.3	3169.7	2801.1	2498.9	2280.2	2100.9	1955.9	1911.6	1872.3	1840.4
10°	3870.0	3570.2	2968.2	2491.5	2169.6	1894.5	1658.6	1486.5	1398.1	1373.5	1390.8
12.5°	3958.5	3528.4	2756.9	2206.5	1835.5	1484.1	1265.4	1179.4	1154.8	1145.0	1147.5
15°	4046.9	3476.8	2535.7	1931.3	1462.0	1184.4	1083.6	1061.5	1051.6	1046.7	1041.8
17.5°	4128.0	3393.3	2287.6	1663.5	1184.4	1012.3	975.5	955.8	936.2	928.8	916.5
20°	4223.8	3297.4	2064.0	1363.7	1002.5	916.5	872.3	835.5	805.9	786.3	783.9
22.5°	4314.7	3174.6	1830.6	1130.3	914.1	823.2	751.9	712.5	678.2	653.6	660.9
25°	4363.8	3024.7	1621.7	985.3	833.0	729.8	651.1	602.0	565.2	552.9	550.4
27.5°	4363.8	2840.4	1417.8	901.8	759.3	646.2	565.2	518.4	493.9	476.7	479.1
30°	4329.4	2636.5	1228.5	837.9	695.4	572.5	496.3	454.5	434.9	422.7	420.2
32.5°	4302.4	2442.4	1066.4	776.4	629.1	508.6	442.3	410.4	390.7	378.4	378.4
35°	4344.2	2275.3	941.1	715.0	567.6	459.5	400.5	371.1	351.3	341.5	339.1
37.5°	4454.8	2122.9	845.2	648.7	511.1	417.7	371.1	336.6	317.0	304.7	299.7
40°	4727.5	2037.0	774.0	587.2	457.0	383.3	336.6	304.7	280.1	267.9	265.4
42.5°	5164.9	2039.4	705.2	530.7	415.2	353.8	307.2	270.3	243.3	231.0	228.5
45°	5823.4	2132.8	651.1	476.7	378.4	321.9	275.2	235.9	211.3	199.0	199.0
47.5°	6612.1	2314.6	604.5	430.0	344.0	292.4	243.3	204.0	179.4	169.5	169.5
50°	7467.2	2550.5	557.7	380.9	314.5	260.4	208.8	176.9	157.2	149.9	149.9
52.5°	8339.5	2835.6	511.1	341.5	282.6	226.1	179.4	157.2	140.1	135.1	132.7
55°	9484.5	3199.2	462.0	299.7	248.1	194.1	159.7	137.6	117.9	110.6	108.1
57.5°	11246.2	3747.1	407.9	262.9	204.0	162.2	137.6	115.5	93.3	81.1	78.6
60°	13371.7	4415.4	351.3	231.0	164.7	132.7	110.6	88.5	68.8	54.0	51.6
62.5°	15361.9	4840.5	297.3	194.1	130.2	100.8	78.6	66.3	49.2	34.4	31.9
65°	16241.6	4698.0	245.7	157.2	103.2	71.3	51.6	46.7	29.5	14.7	12.3
66°	15949.2	4486.7	226.1	142.5	93.3	61.5	44.2	39.3	22.1	7.4	7.4
67.5°	15086.8	3987.9	196.5	122.9	81.1	49.2	34.4	29.5	12.3	2.4	0.0
70°	12926.9	3226.2	154.8	90.9	59.0	34.4	19.7	14.7	7.4	0.0	0.0
72.5°	9929.2	2403.1	122.9	68.8	41.7	19.7	9.9	4.9	7.4	0.0	0.0
75°	6083.8	1373.5	95.8	51.6	27.0	12.3	7.4	0.0	7.4	2.4	0.0
77.5°	2700.4	616.8	63.9	34.4	19.7	9.9	4.9	0.0	4.9	2.4	0.0
80°	683.1	201.5	36.9	24.6	14.7	7.4	2.4	0.0	4.9	4.9	2.4
82.5°	186.7	73.7	27.0	19.7	12.3	7.4	2.4	0.0	4.9	4.9	4.9
85°	73.7	34.4	24.6	19.7	14.7	7.4	2.4	0.0	4.9	4.9	4.9
87.5°	34.4	24.6	24.6	22.1	17.2	7.4	2.4	0.0	4.9	2.4	4.9
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)