

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: P459400

Luminaire Tested: **GALN-SA8C-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459400
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-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 39534 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

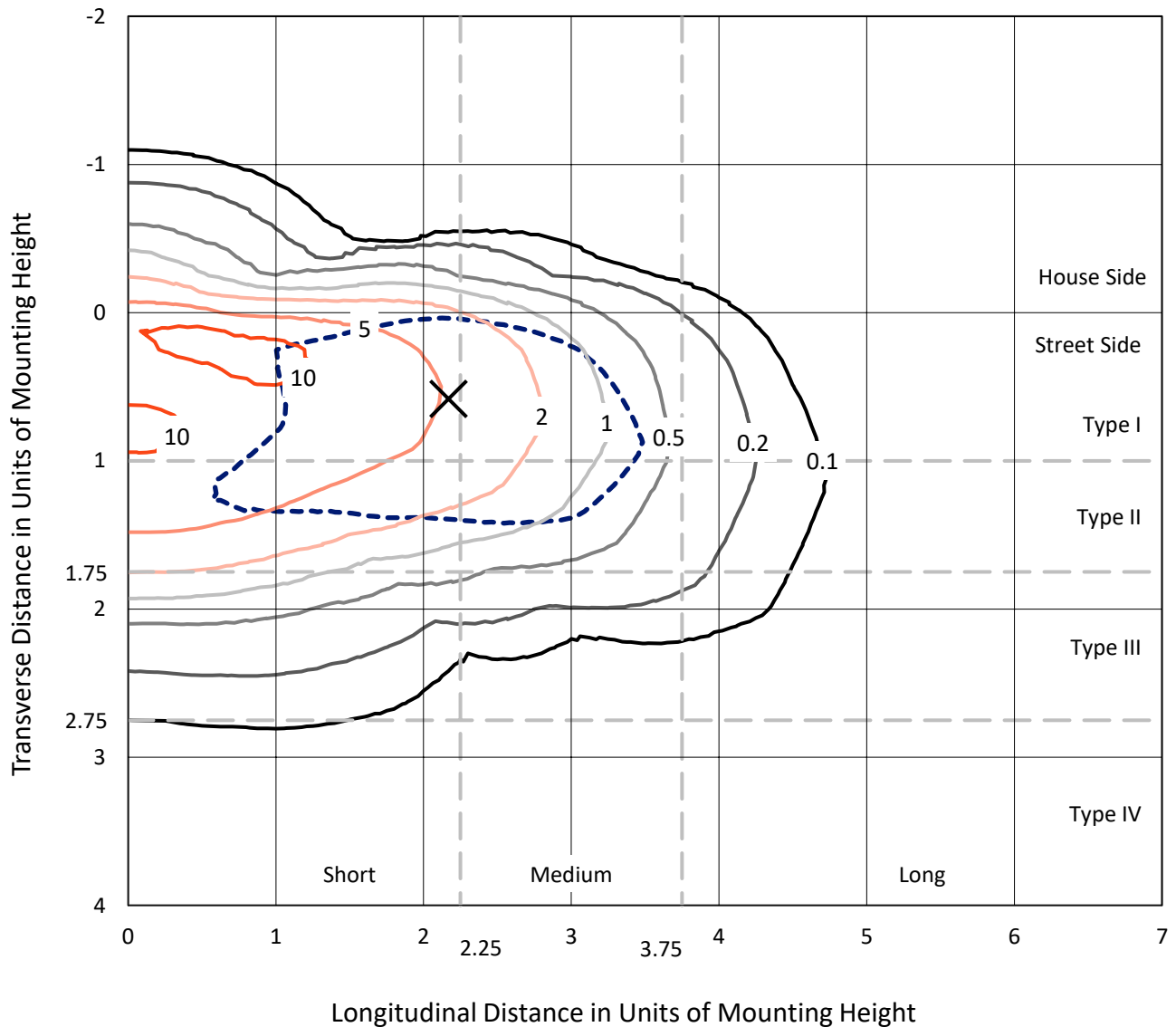
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

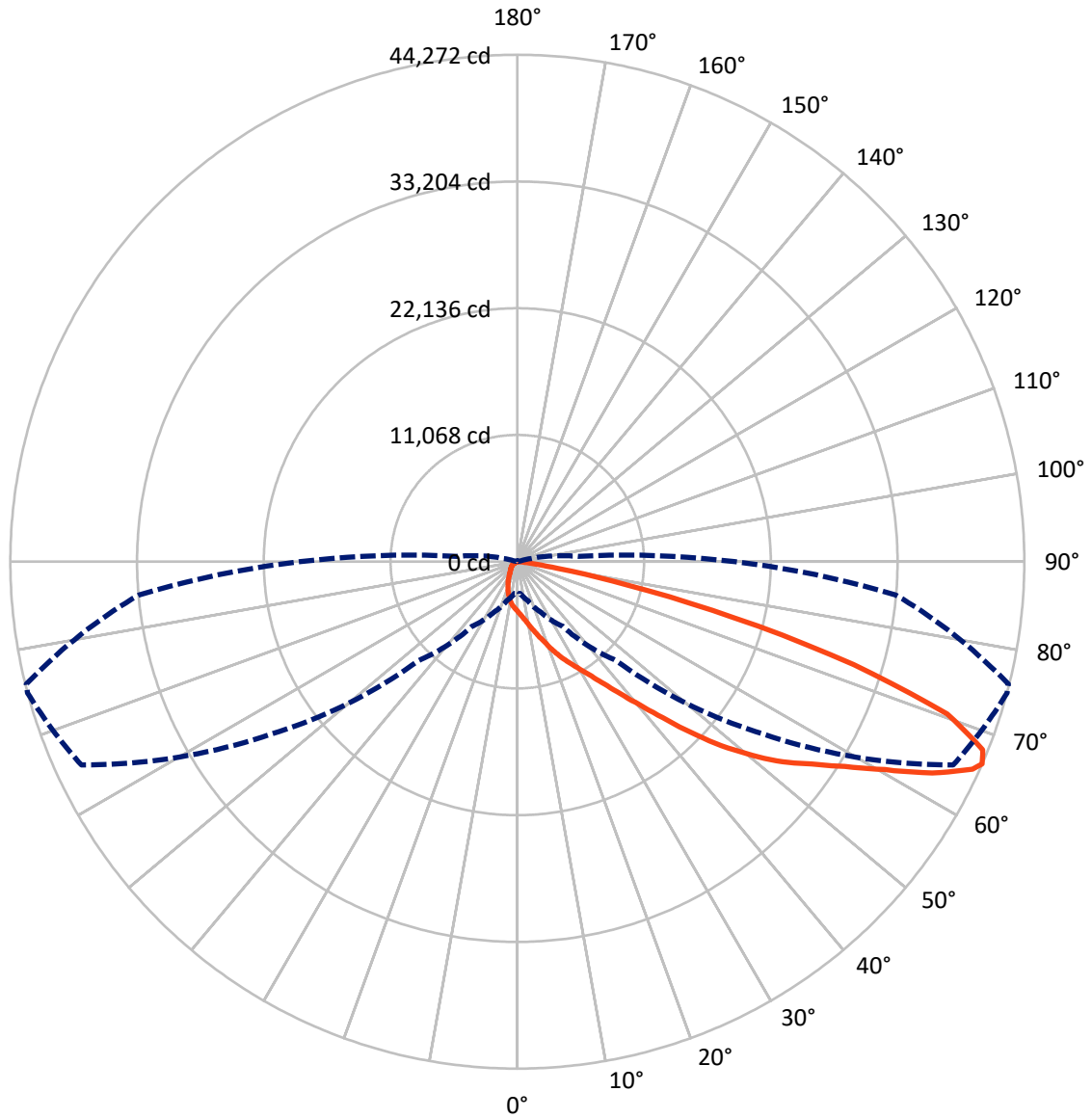
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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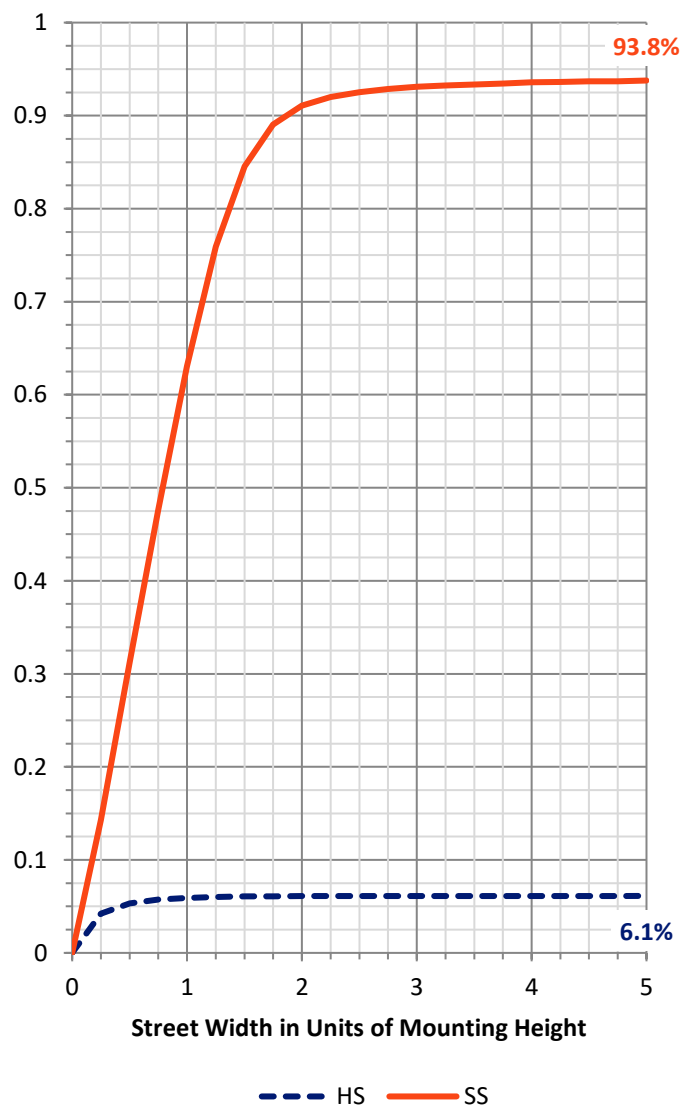
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.6	0.0	2440.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	37093.3	0.0	37093.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	39534.0	0.0	39534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.1
10°-20°	1227.3	3.1
20°-30°	2119.2	5.4
30°-40°	3822.6	9.7
40°-50°	6905.6	17.5
50°-60°	10765.9	27.2
60°-70°	10227.2	25.9
70°-80°	3832.9	9.7
80°-90°	216.2	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°	39534.0	100.0
0°-180°	39534.0	100.0

Coefficient of Utilization



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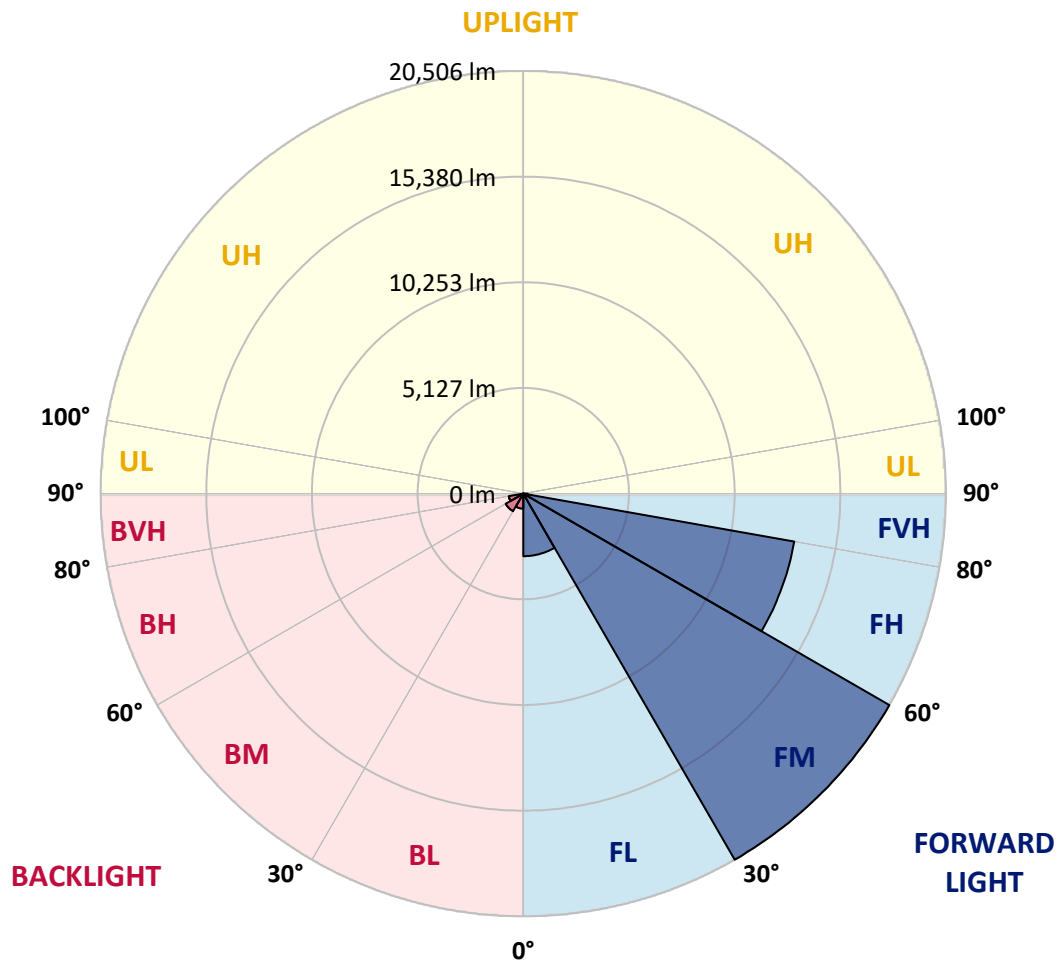
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3034.6	7.7			
FM (30°-60°)	20506.3	51.9			
FH (60°-80°)	13347.4	33.8			G5
FVH (80°-90°)	205.1	0.5			G2/225
BL (0°-30°)	728.9	1.8	B2/1000		
BM (30°-60°)	987.9	2.5	B1/1000		
BH (60°-80°)	712.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4
2.5°	5165.3	5101.0	5121.5	5092.2	5025.0	4925.6	4837.9	4712.2	4586.5	4566.1	4425.7
5°	5846.4	5828.9	5805.5	5720.7	5674.0	5522.0	5340.7	5124.4	4864.2	4817.5	4563.1
7.5°	6311.2	6302.4	6314.1	6270.3	6229.4	6092.0	5899.0	5603.8	5200.4	5174.1	4750.2
10°	6463.2	6486.6	6530.5	6600.6	6664.9	6621.1	6474.9	6106.6	5636.0	5560.0	4963.6
12.5°	6375.5	6401.8	6507.1	6694.2	6901.7	7021.6	6963.1	6694.2	6097.8	6036.4	5203.3
15°	6150.4	6182.6	6331.7	6621.1	6992.3	7331.4	7477.6	7284.6	6635.7	6536.3	5492.7
17.5°	5817.2	5864.0	6077.4	6460.3	6968.9	7553.6	7965.8	7901.4	7208.6	7115.1	5808.4
20°	5565.8	5600.9	5782.1	6220.6	6869.6	7676.4	8430.5	8611.8	7916.1	7755.3	6179.7
22.5°	5732.4	5744.1	5805.5	6068.6	6691.2	7708.5	8839.8	9351.4	8667.3	8524.1	6565.5
25°	6548.0	6431.1	6369.7	6311.2	6653.2	7679.3	9211.0	10123.1	9415.7	9263.7	6948.5
27.5°	7834.2	7781.6	7471.7	7056.6	6977.7	7717.3	9456.6	10853.9	10120.2	9956.5	7322.7
30°	9234.4	9143.8	8953.8	8345.8	7734.8	7986.2	9634.9	11564.2	10953.3	10737.0	7664.7
32.5°	10520.6	10579.1	10295.6	9670.0	8962.6	8559.2	9865.8	12338.9	11909.2	11640.2	8062.2
35°	12020.3	12137.2	11701.6	11102.4	10275.1	9594.0	10316.0	13212.9	13122.3	12783.2	8676.1
37.5°	13543.3	13613.4	13347.4	12505.5	11760.1	10909.4	11163.8	14291.6	14616.1	14326.7	9409.8
40°	14823.6	14920.1	14724.2	13975.9	13180.8	12432.4	12394.4	15466.7	16393.4	16095.2	10503.1
42.5°	15802.9	15876.0	15881.8	15352.7	14636.5	14297.4	13964.2	16966.3	18620.9	18275.9	11771.8
45°	17039.4	17144.7	17083.3	16723.7	16188.8	16127.4	15954.9	18778.7	21286.8	20851.3	13417.6
47.5°	18951.2	19021.4	18869.3	18445.5	17901.8	17998.2	17895.9	20810.4	24005.4	23631.3	15121.8
50°	20278.3	20395.3	20611.6	20781.1	20386.5	20029.9	19725.8	22707.5	26586.6	26250.5	16864.0
52.5°	20263.7	20456.7	21140.7	21994.3	22856.6	22748.5	21874.4	24803.5	29050.9	28635.8	18501.0
55°	18898.6	19272.8	20278.3	21792.6	24180.8	25370.6	24973.0	27229.7	31179.0	30898.4	20398.2
57.5°	16080.6	16308.6	17705.9	19822.3	23441.3	26604.2	28562.7	30518.4	33731.0	33599.4	23344.8
60°	10815.9	10918.2	12716.0	15332.3	19956.8	25373.5	31193.6	34496.8	36873.4	36809.1	26785.4
62.5°	6197.2	6241.1	7544.8	9751.8	14201.0	21503.2	31415.8	39404.9	40641.4	40676.5	30766.8
65°	3335.4	3358.8	4411.1	5723.7	8641.0	15326.4	28249.9	42094.3	43687.4	43754.7	33234.0
66°	2879.4	2768.3	3510.8	4878.8	6875.4	12198.6	26247.5	41997.8	44272.1	44199.0	33146.3
67.5°	2189.5	2288.9	2803.4	3750.5	5095.2	8673.2	21669.8	40129.9	43827.7	43599.7	31798.7
70°	1566.8	1607.8	1996.6	2674.7	3469.9	4759.0	13847.3	33330.5	39834.6	39527.7	27703.3
72.5°	1011.4	1055.3	1414.8	1935.2	2508.1	2598.7	7752.4	24081.4	30711.3	30667.4	20863.0
75°	722.0	763.0	935.4	1385.6	1885.5	1607.8	3732.9	16229.7	19524.1	19392.6	12906.0
77.5°	523.3	543.7	625.6	906.2	1347.6	1151.7	1730.5	8667.3	9719.7	10178.6	5703.2
80°	301.1	318.6	435.6	552.5	912.0	786.3	827.3	3478.6	3586.8	3414.3	1783.2
82.5°	149.1	169.5	260.2	377.1	570.0	529.1	380.0	1046.5	1105.0	1075.7	450.2
85°	35.1	43.8	146.2	248.5	277.7	236.8	184.2	306.9	380.0	371.2	172.5
87.5°	2.9	5.8	52.6	43.8	46.8	78.9	64.3	78.9	122.8	114.0	61.4
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°	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4	4323.4
2.5°	4361.4	4305.9	4145.1	3987.3	3855.7	3718.3	3592.6	3519.5	3490.3	3458.2	3472.8
5°	4422.8	4288.4	3963.9	3683.2	3408.5	3174.6	2987.5	2867.7	2809.2	2800.4	2785.8
7.5°	4504.7	4273.7	3770.9	3332.5	2972.9	2712.7	2499.3	2326.9	2274.3	2227.5	2189.5
10°	4604.1	4247.4	3531.2	2964.1	2581.2	2253.8	1973.2	1768.5	1663.3	1634.1	1654.5
12.5°	4709.3	4197.7	3279.8	2625.0	2183.6	1765.6	1505.5	1403.1	1373.9	1362.2	1365.1
15°	4814.5	4136.3	3016.8	2297.6	1739.3	1409.0	1289.1	1262.8	1251.1	1245.3	1239.4
17.5°	4911.0	4037.0	2721.5	1979.0	1409.0	1204.4	1160.5	1137.1	1113.7	1105.0	1090.4
20°	5025.0	3923.0	2455.5	1622.4	1192.7	1090.4	1037.7	993.9	958.8	935.4	932.5
22.5°	5133.2	3776.8	2177.8	1344.7	1087.4	979.3	894.5	847.7	806.8	777.6	786.3
25°	5191.6	3598.5	1929.3	1172.2	991.0	868.2	774.7	716.2	672.3	657.7	654.8
27.5°	5191.6	3379.2	1686.7	1072.8	903.3	768.8	672.3	616.8	587.6	567.1	570.0
30°	5150.7	3136.6	1461.6	996.8	827.3	681.1	590.5	540.8	517.4	502.8	499.9
32.5°	5118.5	2905.7	1268.7	923.7	748.3	605.1	526.2	488.2	464.8	450.2	450.2
35°	5168.2	2706.9	1119.6	850.7	675.3	546.6	476.5	441.4	418.0	406.3	403.4
37.5°	5299.8	2525.7	1005.6	771.7	608.0	496.9	441.4	400.5	377.1	362.5	356.6
40°	5624.3	2423.3	920.8	698.6	543.7	456.0	400.5	362.5	333.2	318.6	315.7
42.5°	6144.6	2426.3	839.0	631.4	494.0	420.9	365.4	321.6	289.4	274.8	271.9
45°	6928.0	2537.3	774.7	567.1	450.2	382.9	327.4	280.6	251.4	236.8	236.8
47.5°	7866.4	2753.7	719.1	511.6	409.2	347.9	289.4	242.6	213.4	201.7	201.7
50°	8883.6	3034.3	663.6	453.1	374.2	309.9	248.5	210.5	187.1	178.3	178.3
52.5°	9921.4	3373.4	608.0	406.3	336.2	268.9	213.4	187.1	166.6	160.8	157.9
55°	11283.6	3806.0	549.6	356.6	295.2	230.9	190.0	163.7	140.3	131.5	128.6
57.5°	13379.6	4457.9	485.3	312.8	242.6	192.9	163.7	137.4	111.1	96.5	93.5
60°	15908.1	5253.0	418.0	274.8	195.9	157.9	131.5	105.2	81.8	64.3	61.4
62.5°	18275.9	5758.7	353.7	230.9	154.9	119.9	93.5	78.9	58.5	40.9	38.0
65°	19322.4	5589.2	292.3	187.1	122.8	84.8	61.4	55.5	35.1	17.5	14.6
66°	18974.6	5337.8	268.9	169.5	111.1	73.1	52.6	46.8	26.3	8.8	8.8
67.5°	17948.5	4744.4	233.9	146.2	96.5	58.5	40.9	35.1	14.6	2.9	0.0
70°	15379.0	3838.2	184.2	108.2	70.2	40.9	23.4	17.5	8.8	0.0	0.0
72.5°	11812.7	2858.9	146.2	81.8	49.7	23.4	11.7	5.8	8.8	0.0	0.0
75°	7237.9	1634.1	114.0	61.4	32.2	14.6	8.8	0.0	8.8	2.9	0.0
77.5°	3212.6	733.7	76.0	40.9	23.4	11.7	5.8	0.0	5.8	2.9	0.0
80°	812.7	239.7	43.8	29.2	17.5	8.8	2.9	0.0	5.8	5.8	2.9
82.5°	222.2	87.7	32.2	23.4	14.6	8.8	2.9	0.0	5.8	5.8	5.8
85°	87.7	40.9	29.2	23.4	17.5	8.8	2.9	0.0	5.8	5.8	5.8
87.5°	40.9	29.2	29.2	26.3	20.5	8.8	2.9	0.0	5.8	2.9	5.8
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)