

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: P455369

Luminaire Tested: **GALN-SA6C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455369
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-SA6C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 31166 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

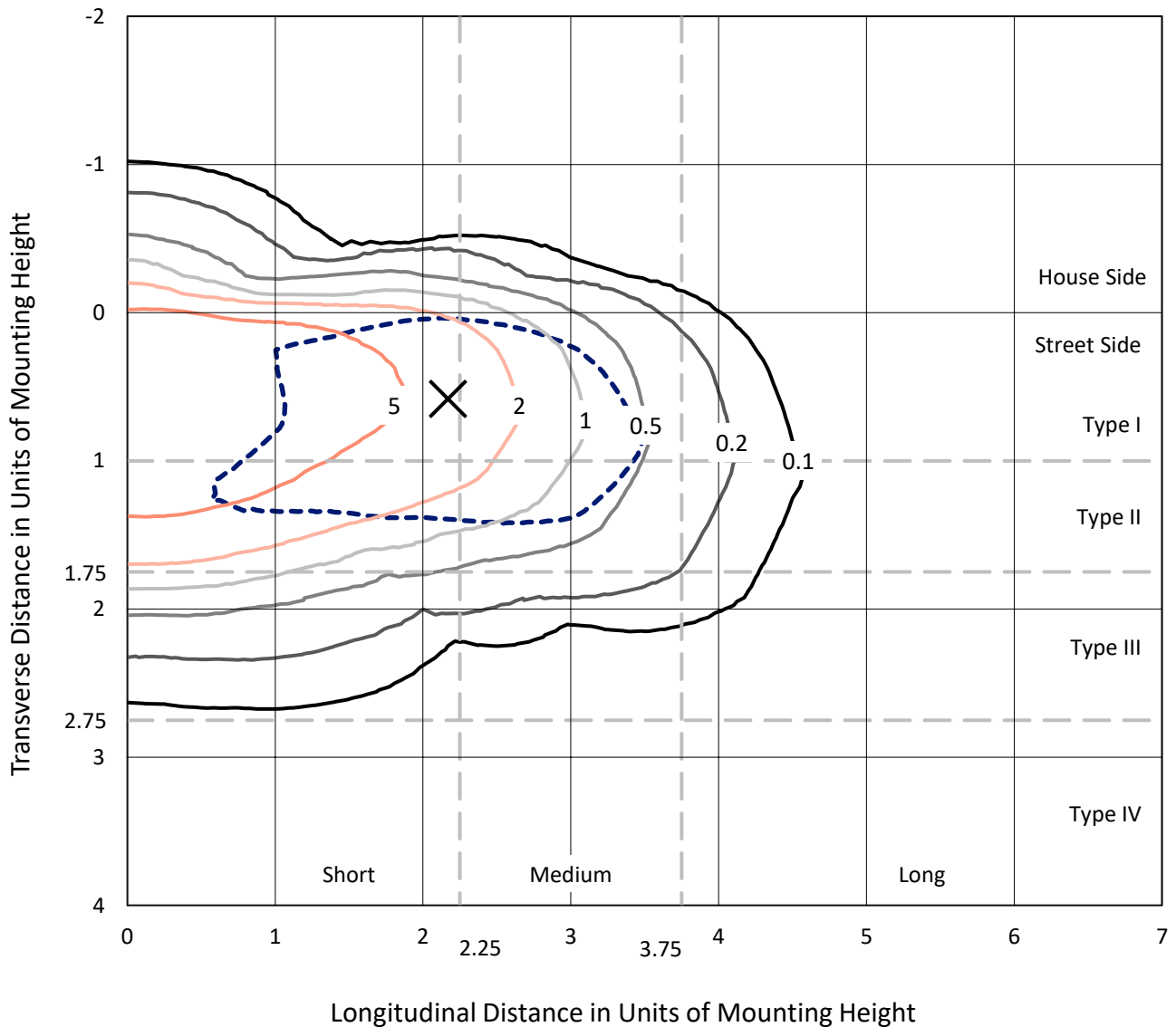
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

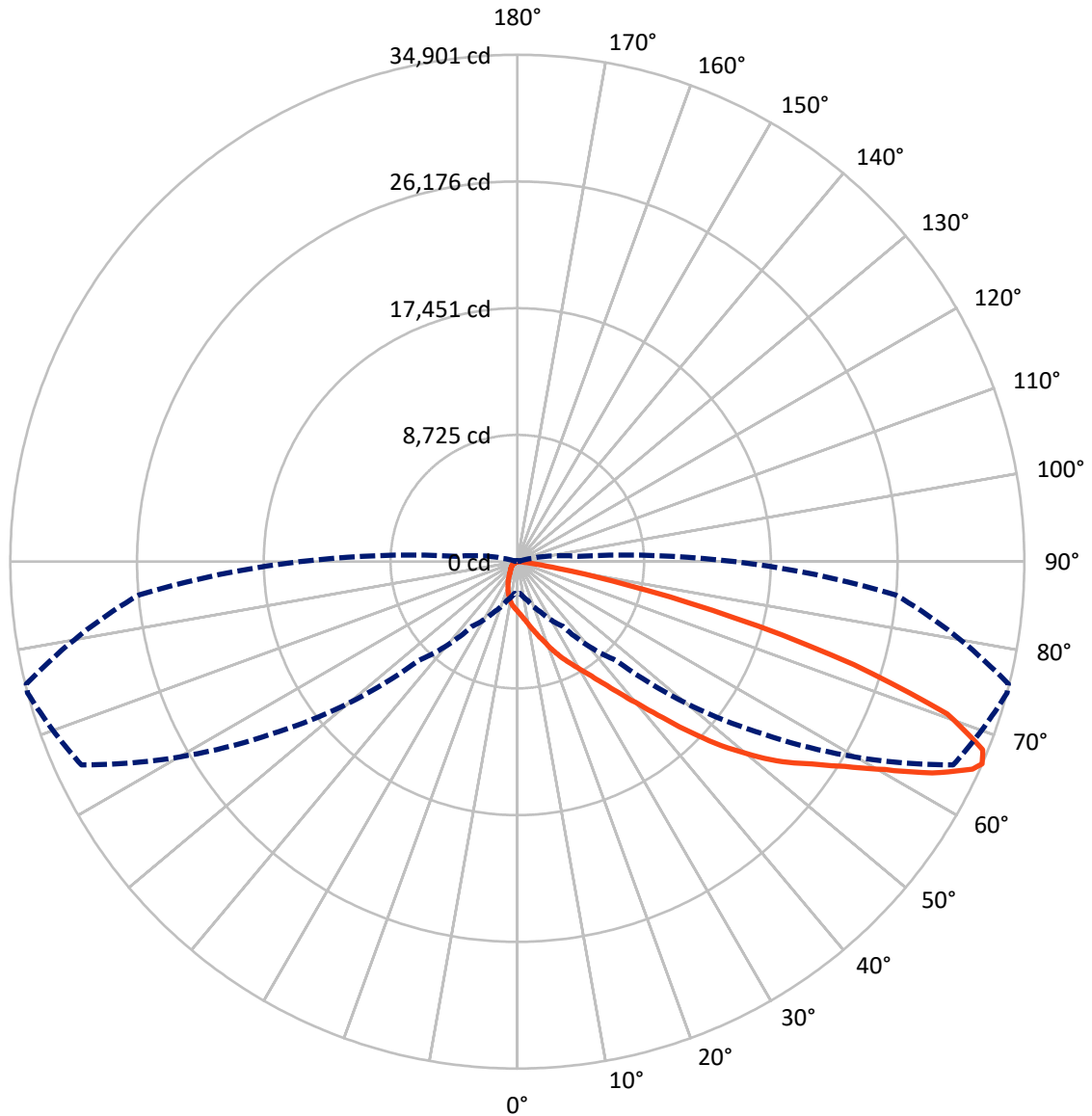
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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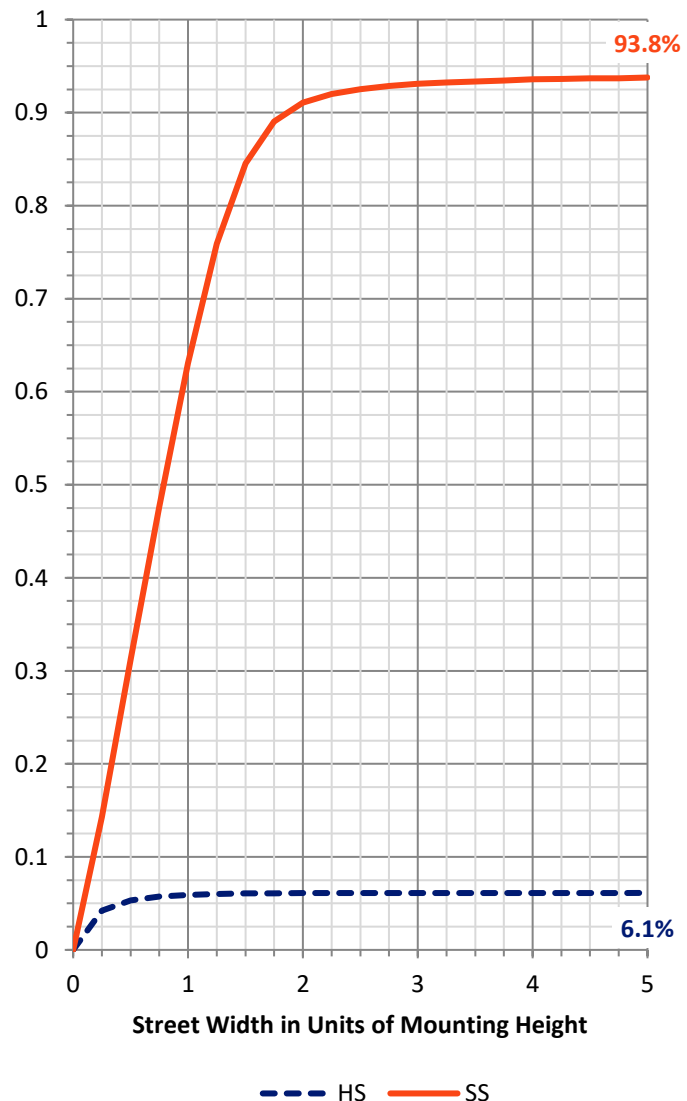
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.0	0.0	1924.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29242.0	0.0	29242.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	31166.0	0.0	31166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.7	1.1
10°-20°	967.5	3.1
20°-30°	1670.6	5.4
30°-40°	3013.5	9.7
40°-50°	5444.0	17.5
50°-60°	8487.2	27.2
60°-70°	8062.4	25.9
70°-80°	3021.6	9.7
80°-90°	170.5	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°	31166.0	100.0
0°-180°	31166.0	100.0



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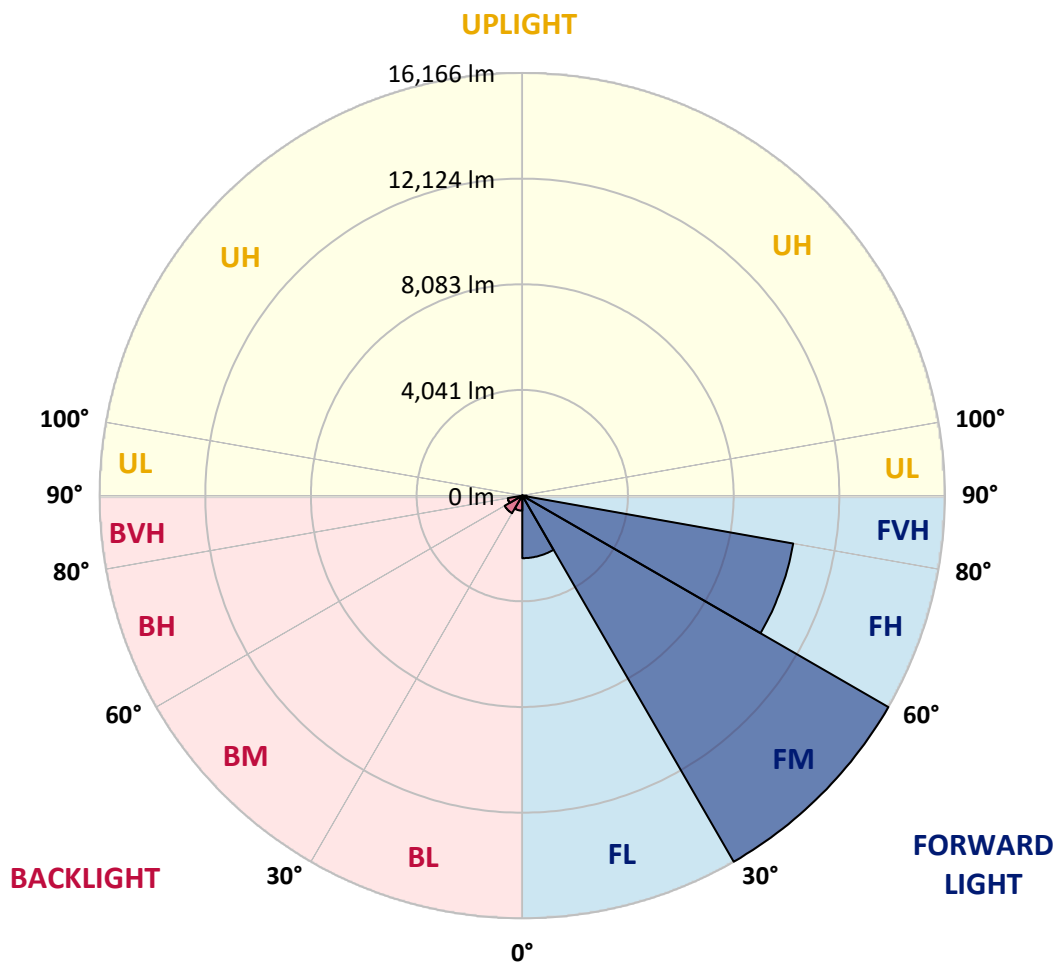
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2392.3	7.7			
FM	(30°-60°)	16165.8	51.9			
FH	(60°-80°)	10522.2	33.8			G4/12000
FVH	(80°-90°)	161.7	0.5			G2/225
BL	(0°-30°)	574.6	1.8	B2/1000		
BM	(30°-60°)	778.8	2.5	B1/1000		
BH	(60°-80°)	561.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.8	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°	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3
2.5°	4072.0	4021.3	4037.4	4014.4	3961.4	3883.0	3813.9	3714.8	3615.7	3599.6	3489.0
5°	4608.9	4595.1	4576.7	4509.8	4473.0	4353.1	4210.3	4039.7	3834.6	3797.8	3597.3
7.5°	4975.3	4968.4	4977.7	4943.1	4910.8	4802.5	4650.4	4417.7	4099.7	4078.9	3744.8
10°	5095.2	5113.6	5148.2	5203.5	5254.2	5219.6	5104.4	4814.0	4443.0	4383.1	3913.0
12.5°	5026.0	5046.8	5129.7	5277.2	5440.9	5535.3	5489.2	5277.2	4807.1	4758.7	4102.0
15°	4848.6	4874.0	4991.5	5219.6	5512.3	5779.6	5894.8	5742.7	5231.1	5152.8	4330.1
17.5°	4585.9	4622.8	4791.0	5092.9	5493.9	5954.7	6279.7	6229.0	5682.8	5609.1	4579.0
20°	4387.7	4415.4	4558.2	4903.9	5415.5	6051.5	6646.1	6789.0	6240.5	6113.8	4871.6
22.5°	4519.1	4528.3	4576.7	4784.1	5274.9	6076.9	6968.7	7372.0	6832.8	6719.8	5175.8
25°	5162.0	5069.8	5021.4	4975.3	5245.0	6053.8	7261.4	7980.4	7422.7	7302.9	5477.7
27.5°	6176.0	6134.5	5890.2	5563.0	5500.8	6083.8	7455.0	8556.5	7978.1	7849.0	5772.7
30°	7279.8	7208.4	7058.6	6579.3	6097.6	6295.8	7595.5	9116.5	8634.8	8464.3	6042.3
32.5°	8293.8	8339.9	8116.3	7623.2	7065.5	6747.5	7777.6	9727.2	9388.4	9176.4	6355.7
35°	9476.0	9568.2	9224.8	8752.4	8100.2	7563.3	8132.5	10416.2	10344.8	10077.4	6839.7
37.5°	10676.6	10731.9	10522.2	9858.5	9270.9	8600.3	8800.8	11266.6	11522.3	11294.2	7418.1
40°	11686.0	11762.0	11607.6	11017.7	10390.9	9800.9	9771.0	12192.9	12923.5	12688.4	8280.0
42.5°	12458.0	12515.6	12520.2	12103.1	11538.5	11271.2	11008.5	13375.1	14679.5	14407.5	9280.1
45°	13432.8	13515.7	13467.3	13183.9	12762.2	12713.8	12577.8	14803.9	16781.1	16437.8	10577.5
47.5°	14939.9	14995.2	14875.3	14541.2	14112.6	14188.6	14108.0	16405.5	18924.3	18629.3	11921.0
50°	15986.1	16078.3	16248.8	16382.5	16071.4	15790.2	15550.6	17901.1	20959.1	20694.1	13294.5
52.5°	15974.6	16126.7	16665.9	17338.8	18018.6	17933.4	17244.3	19553.4	22901.8	22574.6	14585.0
55°	14898.4	15193.4	15986.1	17179.8	19062.6	20000.5	19687.1	21466.1	24579.5	24358.2	16080.6
57.5°	12676.9	12856.6	13958.2	15626.6	18479.5	20973.0	22517.0	24058.7	26591.3	26487.6	18403.5
60°	8526.5	8607.2	10024.4	12086.9	15732.6	20002.8	24591.0	27195.0	29068.6	29017.9	21115.9
62.5°	4885.5	4920.0	5947.8	7687.7	11195.1	16951.7	24766.1	31064.2	32039.0	32066.7	24254.5
65°	2629.4	2647.8	3477.4	4512.2	6812.0	12082.3	22270.4	33184.4	34440.3	34493.3	26199.5
66°	2269.9	2182.3	2767.7	3846.2	5420.1	9616.6	20691.8	33108.3	34901.2	34843.6	26130.4
67.5°	1726.0	1804.4	2210.0	2956.6	4016.7	6837.4	17083.0	31635.8	34550.9	34371.2	25068.0
70°	1235.2	1267.5	1574.0	2108.6	2735.4	3751.7	10916.3	26275.6	31403.0	31161.0	21839.5
72.5°	797.3	831.9	1115.4	1525.6	1977.2	2048.7	6111.5	18984.2	24210.8	24176.2	16447.0
75°	569.2	601.5	737.4	1092.3	1486.4	1267.5	2942.8	12794.4	15391.6	15287.8	10174.2
77.5°	412.5	428.6	493.2	714.4	1062.4	908.0	1364.2	6832.8	7662.4	8024.2	4496.0
80°	237.4	251.2	343.4	435.5	719.0	619.9	652.2	2742.3	2827.6	2691.6	1405.7
82.5°	117.5	133.7	205.1	297.3	449.4	417.1	299.6	825.0	871.1	848.0	354.9
85°	27.7	34.6	115.2	195.9	218.9	186.7	145.2	242.0	299.6	292.7	136.0
87.5°	2.3	4.6	41.5	34.6	36.9	62.2	50.7	62.2	96.8	89.9	48.4
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°	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3	3408.3
2.5°	3438.3	3394.5	3267.7	3143.3	3039.6	2931.3	2832.2	2774.6	2751.5	2726.2	2737.7
5°	3486.7	3380.7	3124.9	2903.6	2687.0	2502.7	2355.2	2260.7	2214.6	2207.7	2196.2
7.5°	3551.2	3369.1	2972.8	2627.1	2343.6	2138.5	1970.3	1834.4	1792.9	1756.0	1726.0
10°	3629.5	3348.4	2783.8	2336.7	2034.8	1776.7	1555.5	1394.2	1311.2	1288.2	1304.3
12.5°	3712.5	3309.2	2585.6	2069.4	1721.4	1391.9	1186.8	1106.1	1083.1	1073.9	1076.2
15°	3795.5	3260.8	2378.2	1811.3	1371.2	1110.8	1016.3	995.5	986.3	981.7	977.1
17.5°	3871.5	3182.5	2145.5	1560.1	1110.8	949.4	914.9	896.4	878.0	871.1	859.6
20°	3961.4	3092.6	1935.8	1279.0	940.2	859.6	818.1	783.5	755.9	737.4	735.1
22.5°	4046.6	2977.4	1716.8	1060.1	857.3	772.0	705.2	668.3	636.0	613.0	619.9
25°	4092.7	2836.8	1520.9	924.1	781.2	684.4	610.7	564.6	530.0	518.5	516.2
27.5°	4092.7	2664.0	1329.7	845.7	712.1	606.1	530.0	486.2	463.2	447.1	449.4
30°	4060.5	2472.7	1152.2	785.8	652.2	536.9	465.5	426.3	407.9	396.4	394.1
32.5°	4035.1	2290.6	1000.1	728.2	589.9	477.0	414.8	384.8	366.4	354.9	354.9
35°	4074.3	2133.9	882.6	670.6	532.3	430.9	375.6	348.0	329.5	320.3	318.0
37.5°	4178.0	1991.1	792.7	608.4	479.3	391.8	348.0	315.7	297.3	285.8	281.1
40°	4433.8	1910.4	725.9	550.8	428.6	359.5	315.7	285.8	262.7	251.2	248.9
42.5°	4844.0	1912.7	661.4	497.8	389.5	331.8	288.1	253.5	228.1	216.6	214.3
45°	5461.6	2000.3	610.7	447.1	354.9	301.9	258.1	221.2	198.2	186.7	186.7
47.5°	6201.3	2170.8	566.9	403.3	322.6	274.2	228.1	191.3	168.2	159.0	159.0
50°	7003.3	2392.0	523.1	357.2	295.0	244.3	195.9	165.9	147.5	140.6	140.6
52.5°	7821.4	2659.4	479.3	320.3	265.0	212.0	168.2	147.5	131.4	126.7	124.4
55°	8895.3	3000.4	433.2	281.1	232.8	182.1	149.8	129.1	110.6	103.7	101.4
57.5°	10547.6	3514.3	382.5	246.6	191.3	152.1	129.1	108.3	87.6	76.0	73.7
60°	12540.9	4141.1	329.5	216.6	154.4	124.4	103.7	83.0	64.5	50.7	48.4
62.5°	14407.5	4539.8	278.8	182.1	122.1	94.5	73.7	62.2	46.1	32.3	30.0
65°	15232.5	4406.1	230.4	147.5	96.8	66.8	48.4	43.8	27.7	13.8	11.5
66°	14958.3	4208.0	212.0	133.7	87.6	57.6	41.5	36.9	20.7	6.9	6.9
67.5°	14149.4	3740.2	184.4	115.2	76.0	46.1	32.3	27.7	11.5	2.3	0.0
70°	12123.8	3025.8	145.2	85.3	55.3	32.3	18.4	13.8	6.9	0.0	0.0
72.5°	9312.4	2253.8	115.2	64.5	39.2	18.4	9.2	4.6	6.9	0.0	0.0
75°	5705.9	1288.2	89.9	48.4	25.3	11.5	6.9	0.0	6.9	2.3	0.0
77.5°	2532.6	578.4	59.9	32.3	18.4	9.2	4.6	0.0	4.6	2.3	0.0
80°	640.6	189.0	34.6	23.0	13.8	6.9	2.3	0.0	4.6	4.6	2.3
82.5°	175.1	69.1	25.3	18.4	11.5	6.9	2.3	0.0	4.6	4.6	4.6
85°	69.1	32.3	23.0	18.4	13.8	6.9	2.3	0.0	4.6	4.6	4.6
87.5°	32.3	23.0	23.0	20.7	16.1	6.9	2.3	0.0	4.6	2.3	4.6
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)