

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: P458103

Luminaire Tested: **GALN-SA9C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38382 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

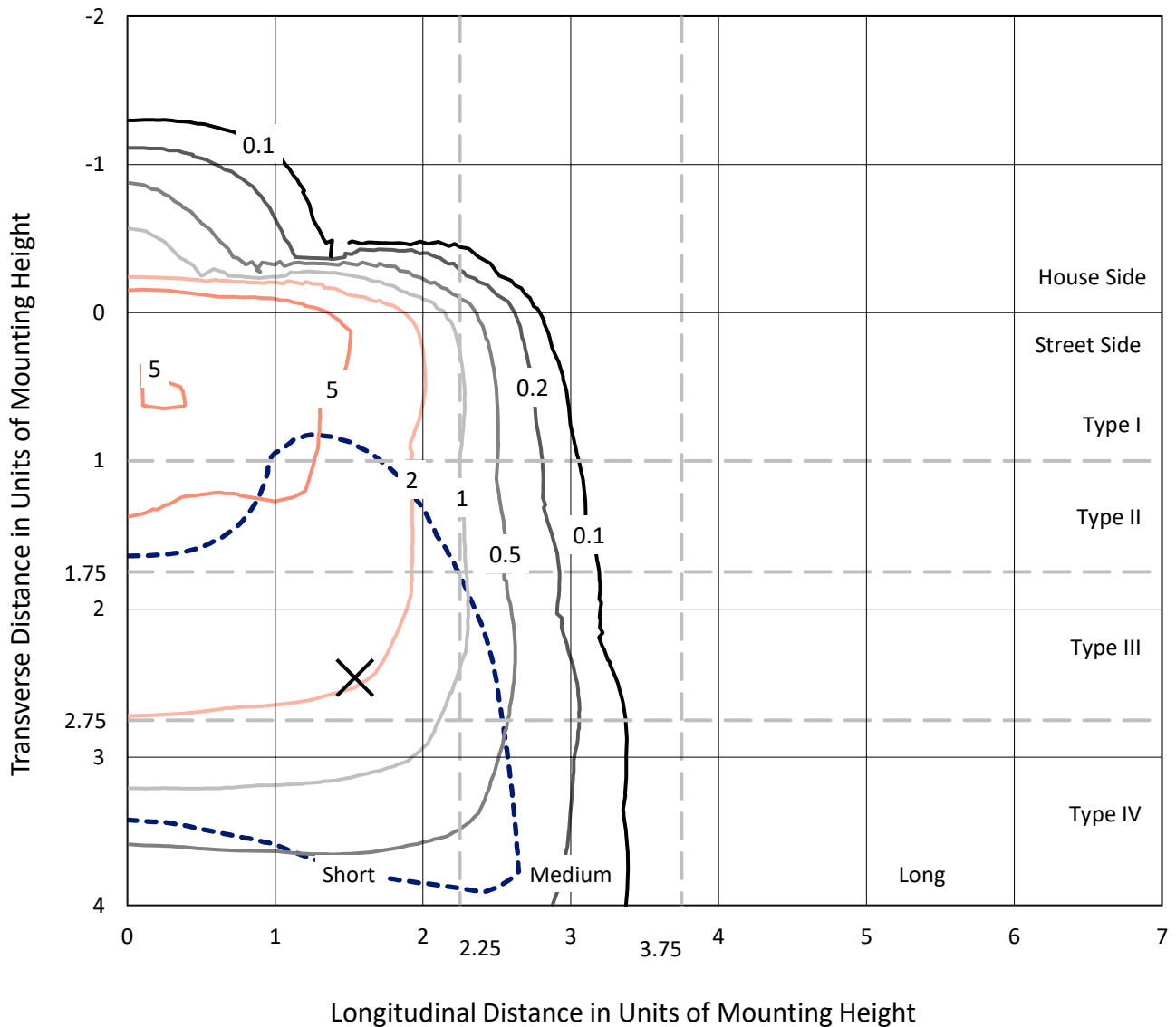
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

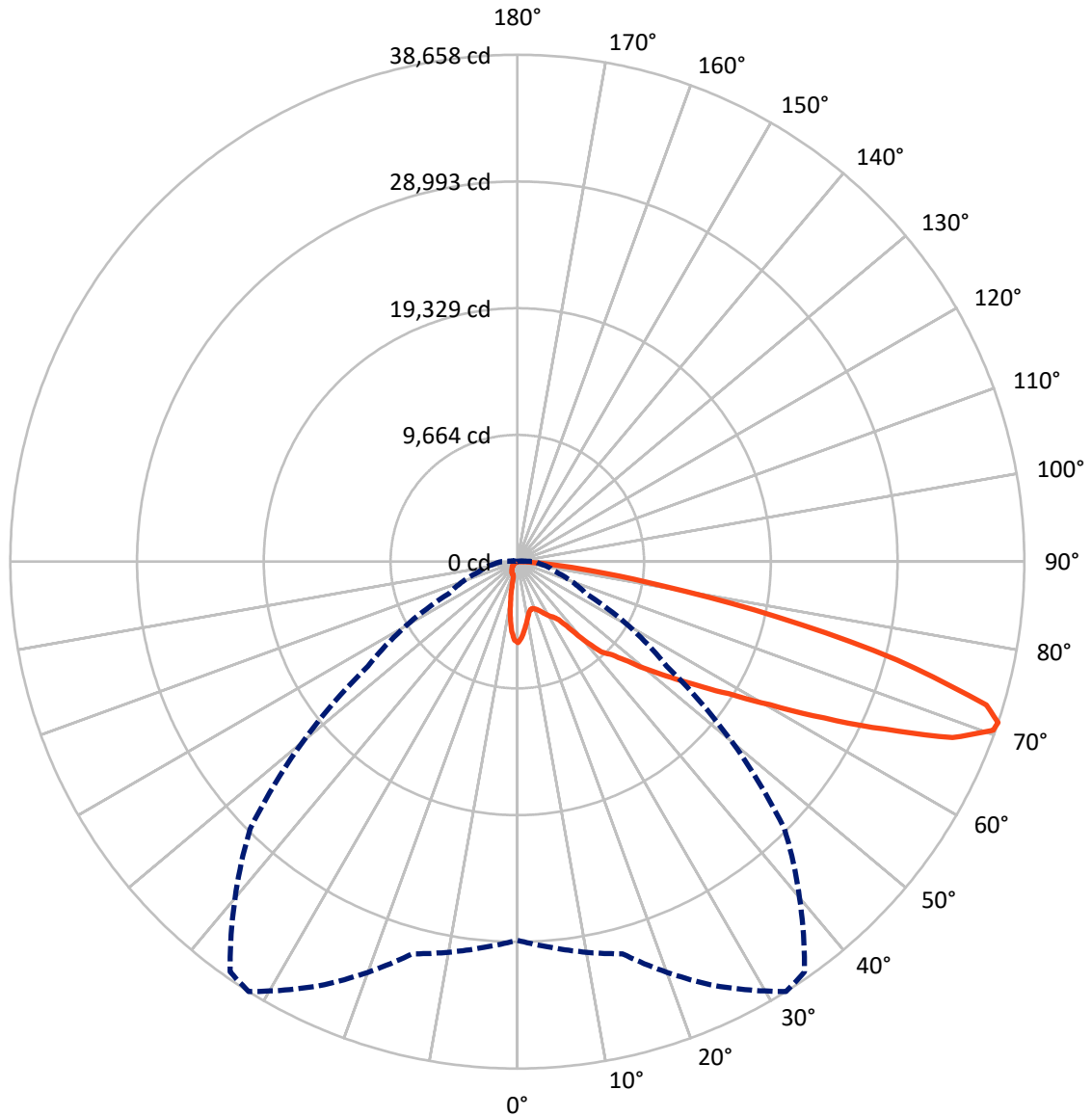
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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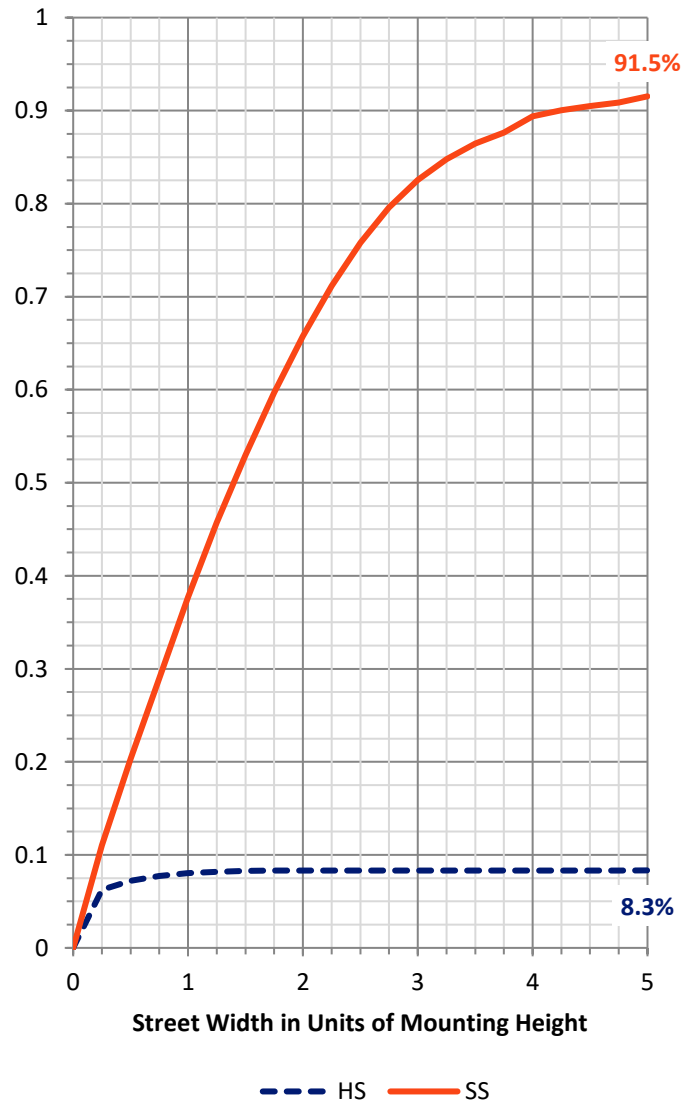
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3214.9	0.0	3214.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35167.1	0.0	35167.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	38382.0	0.0	38382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	1.3
10°-20°	1089.3	2.8
20°-30°	1694.6	4.4
30°-40°	2823.2	7.4
40°-50°	5251.6	13.7
50°-60°	8431.6	22.0
60°-70°	11341.0	29.5
70°-80°	6728.7	17.5
80°-90°	520.1	1.4
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°	38382.0	100.0
0°-180°	38382.0	100.0

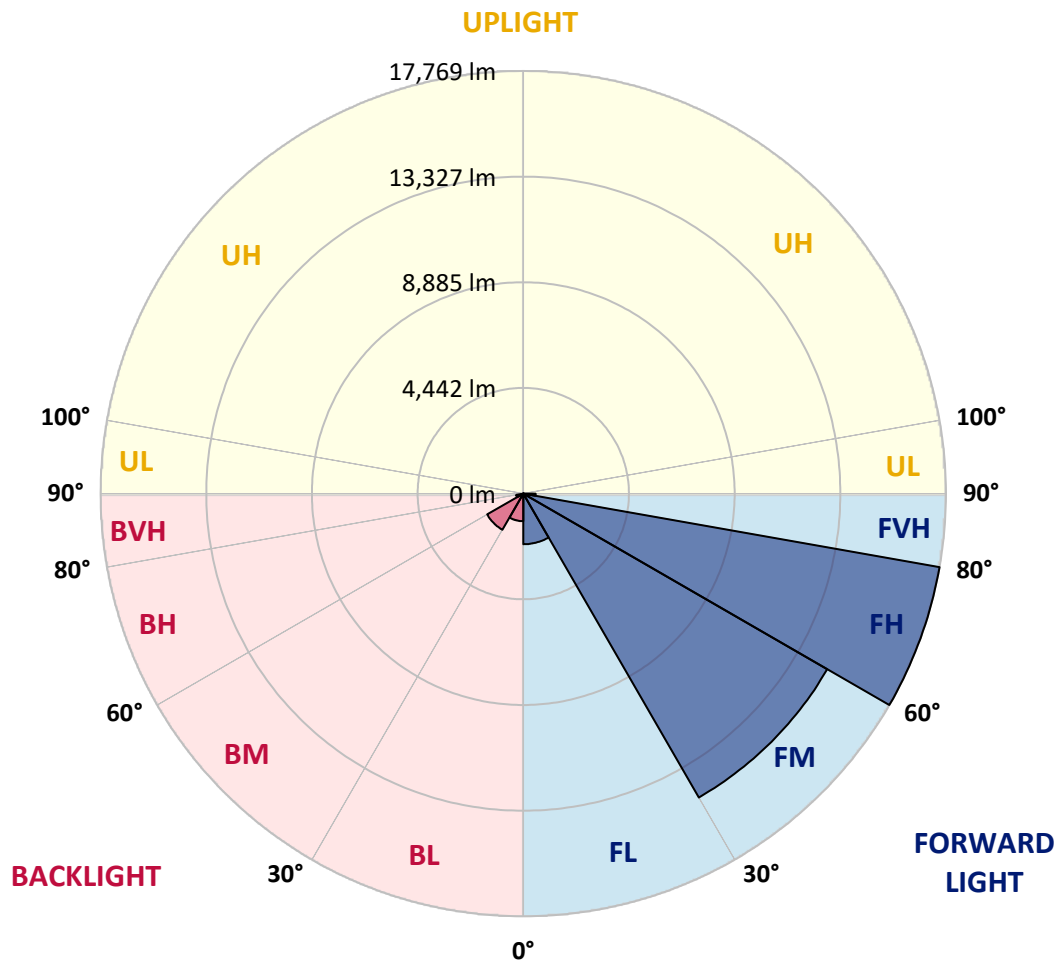


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2127.4	5.5			
FM	(30°-60°)	14752.6	38.4			
FH	(60°-80°)	17769.0	46.3			G5
FVH	(80°-90°)	518.1	1.3			G4/750
BL	(0°-30°)	1158.4	3.0	B3/2500		
BM	(30°-60°)	1753.8	4.6	B2/2500		
BH	(60°-80°)	300.7	0.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4
2.5°	5724.6	5783.5	5774.7	5795.3	5845.4	5866.0	5922.0	5983.9	6069.3	6128.2	6166.5
5°	5126.5	5170.7	5176.6	5279.7	5329.8	5385.8	5550.8	5730.5	5930.8	6089.9	6196.0
7.5°	4487.2	4510.7	4557.9	4693.4	4820.1	4876.1	5126.5	5438.8	5754.1	6051.6	6243.1
10°	3959.8	3986.3	4071.7	4216.1	4334.0	4407.6	4755.3	5147.1	5589.1	6031.0	6310.9
12.5°	3659.3	3674.0	3706.4	3836.0	3986.3	4065.8	4440.0	4887.9	5456.5	6039.8	6425.8
15°	3638.6	3632.7	3594.4	3647.5	3783.0	3865.5	4230.8	4711.1	5338.6	6069.3	6561.3
17.5°	3747.6	3732.9	3641.6	3641.6	3753.5	3821.3	4142.4	4616.8	5279.7	6137.1	6752.8
20°	3915.6	3892.0	3741.8	3730.0	3839.0	3909.7	4195.5	4622.7	5291.5	6263.8	7009.2
22.5°	4127.7	4101.2	3874.3	3880.2	3998.1	4068.8	4348.7	4728.8	5365.1	6419.9	7283.2
25°	4404.7	4375.2	4107.1	4095.3	4219.1	4280.9	4575.5	4917.3	5468.3	6614.4	7642.6
27.5°	4772.9	4711.1	4389.9	4372.3	4504.8	4584.4	4849.6	5170.7	5650.9	6882.5	8125.8
30°	5076.4	5008.7	4702.2	4655.1	4796.5	4858.4	5132.4	5512.5	6010.4	7350.9	8794.6
32.5°	5474.2	5374.0	5014.5	4890.8	5041.1	5120.6	5541.9	6148.9	6543.7	7845.9	9590.1
35°	6369.8	6308.0	5869.0	5435.9	5427.0	5527.2	6145.9	6791.1	7091.7	8617.8	10674.3
37.5°	7651.5	7607.3	7141.7	6561.3	6393.4	6346.3	6879.5	7498.2	7966.7	9678.5	11935.3
40°	9139.3	9036.2	8609.0	8117.0	7898.9	7760.5	7745.7	8550.1	9109.9	11119.2	13249.4
42.5°	10205.9	10017.3	9498.8	9463.4	9416.3	9271.9	8853.5	10088.0	10585.9	12668.9	14654.7
45°	11325.4	11039.7	10267.7	10135.2	10117.5	10108.6	10527.0	11908.8	12194.6	14348.3	16098.4
47.5°	12194.6	11967.7	11334.3	11275.4	11349.0	11549.4	12739.6	13841.6	13782.6	15845.0	17309.3
50°	13352.5	13181.6	12477.4	12589.4	12969.5	13296.5	15235.1	15948.1	15087.8	17023.5	18190.2
52.5°	14719.5	14404.3	13750.2	14053.7	14637.0	15182.1	17883.8	17792.5	16004.1	17910.3	18847.3
55°	15903.9	15680.0	15456.1	15771.4	16643.5	17324.0	20276.2	19174.3	16670.0	18623.3	19136.0
57.5°	17907.4	17854.4	17624.6	17945.7	19003.4	19710.5	22418.1	20246.7	17097.2	18994.6	18797.2
60°	20871.3	20785.9	20358.7	20768.2	22147.1	23257.8	24392.1	21210.2	17194.4	18850.2	17822.0
62.5°	24436.3	24144.6	23779.3	24383.3	26274.8	26763.9	26251.2	21781.7	16832.0	17701.2	15470.8
65°	27765.6	27465.1	27473.9	28746.7	30806.1	31139.1	28419.7	21696.3	15771.4	14822.7	11410.9
67.5°	30314.1	30264.0	30623.5	33107.2	35800.1	35570.3	30358.3	20417.6	12627.7	9607.8	6063.4
70°	30443.8	30541.0	31572.2	35764.7	38498.8	38133.5	30193.3	16596.3	7872.4	4419.4	2389.4
71°	28876.3	29530.4	30956.4	35682.2	38657.9	38183.6	28802.7	13900.5	5774.7	3081.8	1723.6
72.5°	24607.2	24951.9	28033.7	33581.5	37399.9	36386.4	25276.0	9743.3	3697.6	1885.6	989.9
75°	13552.8	14401.3	18773.6	26345.5	29913.4	29023.7	16472.6	4628.6	1844.4	1031.2	409.5
77.5°	6452.3	6287.3	9159.9	15668.2	20282.1	20234.9	8299.6	2056.5	1075.4	698.3	206.2
80°	1844.4	2074.2	3506.1	7448.2	11260.6	11384.4	3187.9	992.9	745.4	545.1	106.1
82.5°	556.8	568.6	1287.5	3293.9	5600.8	5279.7	1196.2	506.8	536.2	433.1	61.9
85°	97.2	120.8	380.1	1160.8	2136.0	1620.4	300.5	241.6	353.6	285.8	35.4
87.5°	5.9	8.8	126.7	132.6	188.6	109.0	53.0	35.4	76.6	76.6	20.6
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°	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4
2.5°	6193.0	6210.7	6198.9	6172.4	6128.2	6075.2	6004.5	5945.6	5895.5	5869.0	5901.4
5°	6231.4	6254.9	6196.0	6063.4	5863.1	5645.0	5397.6	5206.1	5055.8	5008.7	4991.0
7.5°	6290.3	6305.0	6145.9	5851.3	5427.0	4911.4	4460.6	4080.6	3786.0	3697.6	3567.9
10°	6366.9	6358.0	6057.5	5509.5	4764.1	3989.2	3291.0	2772.4	2380.6	2239.2	2227.4
12.5°	6484.7	6437.6	5945.6	5044.0	3974.5	2961.0	2097.7	1641.1	1393.6	1311.1	1293.4
15°	6632.0	6520.1	5768.8	4498.9	3043.5	1912.1	1293.4	1154.9	1122.5	1116.6	1110.7
17.5°	6805.9	6629.1	5536.0	3830.1	2139.0	1240.4	1081.3	1078.3	1081.3	1075.4	1072.4
20°	7041.6	6744.0	5259.1	3037.6	1414.2	1045.9	1031.2	1031.2	1034.1	1031.2	1031.2
22.5°	7292.0	6879.5	4917.3	2318.7	1066.5	992.9	989.9	995.8	1001.7	998.8	998.8
25°	7601.4	7056.3	4466.5	1588.0	954.6	948.7	951.6	963.4	975.2	978.2	975.2
27.5°	8049.2	7274.3	3983.4	1093.1	875.0	880.9	910.4	939.9	957.5	960.5	960.5
30°	8553.0	7515.9	3352.8	886.8	810.2	810.2	845.6	901.6	939.9	945.8	948.7
32.5°	9201.2	7795.8	2654.6	798.4	748.4	742.5	774.9	842.6	913.3	934.0	934.0
35°	10002.6	8125.8	1974.0	742.5	704.2	689.4	707.1	763.1	854.4	913.3	919.2
37.5°	10942.4	8438.1	1443.7	692.4	662.9	642.3	654.1	698.3	771.9	860.3	883.9
40°	11811.6	8715.1	1078.3	651.1	621.7	606.9	615.8	636.4	698.3	780.8	795.5
42.5°	12760.3	8930.1	857.4	606.9	580.4	574.5	574.5	583.4	624.6	671.7	674.7
45°	13706.0	9006.7	718.9	553.9	536.2	542.1	539.2	533.3	551.0	545.1	545.1
47.5°	14380.7	8915.4	595.1	503.8	503.8	512.7	497.9	477.3	468.5	433.1	436.0
50°	14843.3	8582.5	489.1	444.9	468.5	480.2	450.8	418.4	386.0	347.7	338.8
52.5°	15034.8	7990.3	400.7	368.3	415.4	430.2	394.8	356.5	306.4	274.0	265.2
55°	14911.0	7259.6	332.9	300.5	350.6	368.3	332.9	288.7	232.8	197.4	191.5
57.5°	14366.0	6387.5	282.8	238.6	279.9	291.7	268.1	221.0	165.0	129.6	129.6
60°	13423.2	5485.9	229.8	188.6	209.2	226.9	203.3	159.1	112.0	79.5	73.7
62.5°	11511.1	4454.8	185.6	147.3	147.3	162.0	141.4	114.9	70.7	41.2	38.3
65°	8311.4	3055.3	147.3	109.0	106.1	106.1	88.4	76.6	41.2	17.7	11.8
67.5°	4516.6	1723.6	117.9	82.5	73.7	70.7	56.0	44.2	17.7	2.9	0.0
70°	1776.6	662.9	91.3	56.0	47.1	44.2	29.5	20.6	11.8	0.0	0.0
71°	1205.0	456.7	79.5	47.1	38.3	32.4	23.6	17.7	8.8	0.0	0.0
72.5°	689.4	282.8	61.9	35.4	29.5	23.6	17.7	11.8	8.8	0.0	0.0
75°	300.5	144.4	38.3	26.5	20.6	14.7	11.8	8.8	2.9	0.0	0.0
77.5°	153.2	79.5	26.5	20.6	11.8	8.8	5.9	2.9	0.0	0.0	0.0
80°	85.4	41.2	17.7	11.8	8.8	5.9	2.9	2.9	0.0	0.0	0.0
82.5°	47.1	23.6	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.5	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	0.0	0.0	0.0	0.0	2.9	2.9	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)