

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: P456377

Luminaire Tested: **GALN-SA7C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456377
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-SA7C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 29610 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

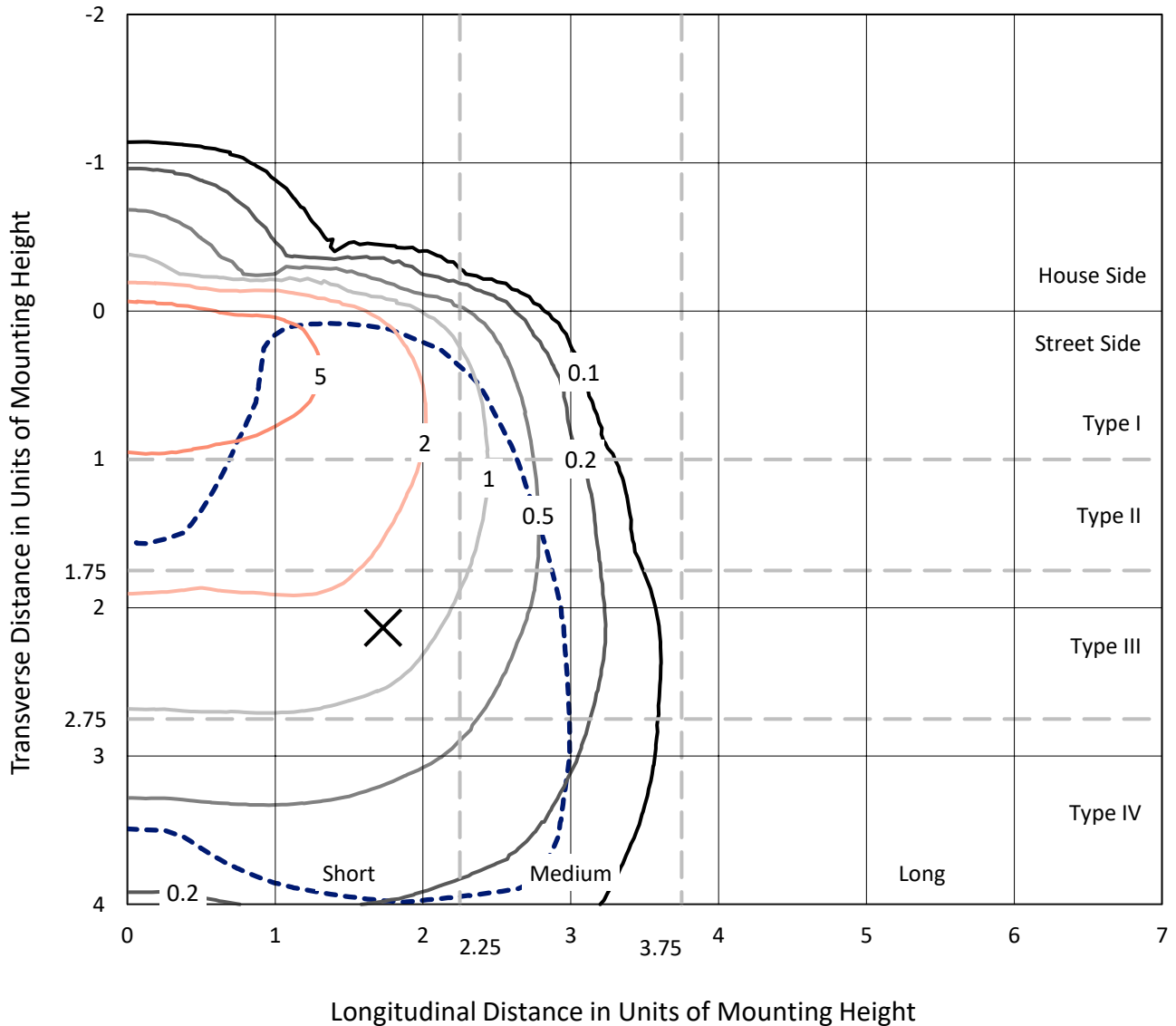
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

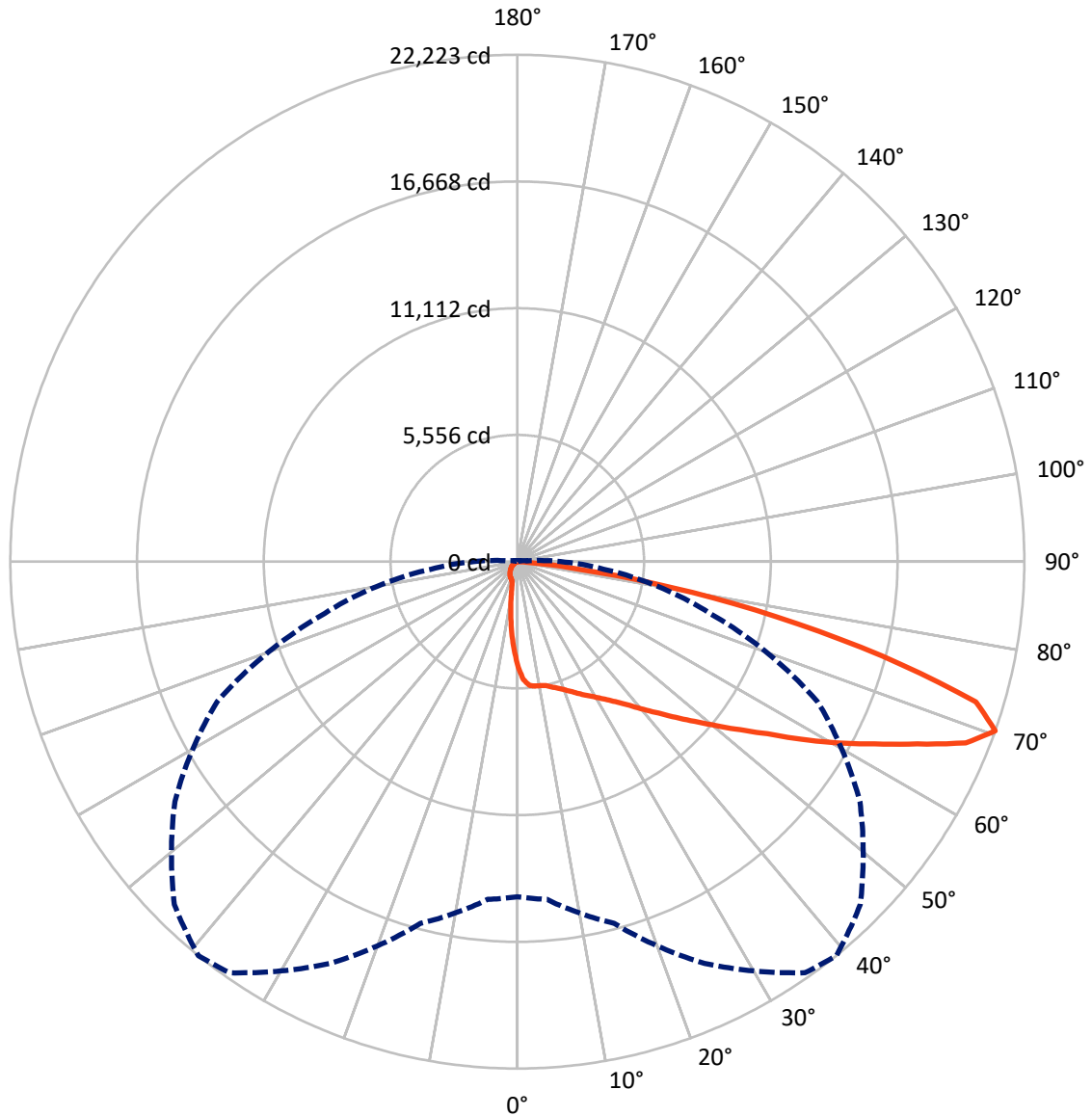
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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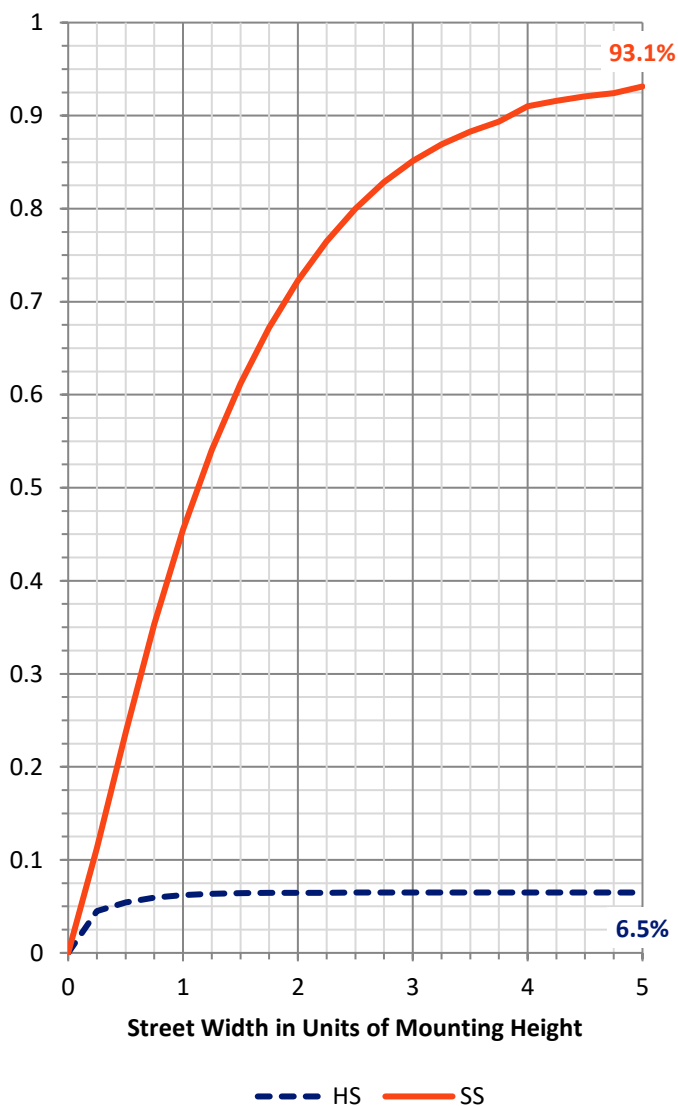
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1930.7	0.0	1930.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	27679.3	0.0	27679.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	29610.0	0.0	29610.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	1.3
10°-20°	1024.1	3.5
20°-30°	1715.6	5.8
30°-40°	2660.7	9.0
40°-50°	4216.4	14.2
50°-60°	6180.6	20.9
60°-70°	7922.0	26.8
70°-80°	4977.9	16.8
80°-90°	518.6	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°	29610.0	100.0
0°-180°	29610.0	100.0



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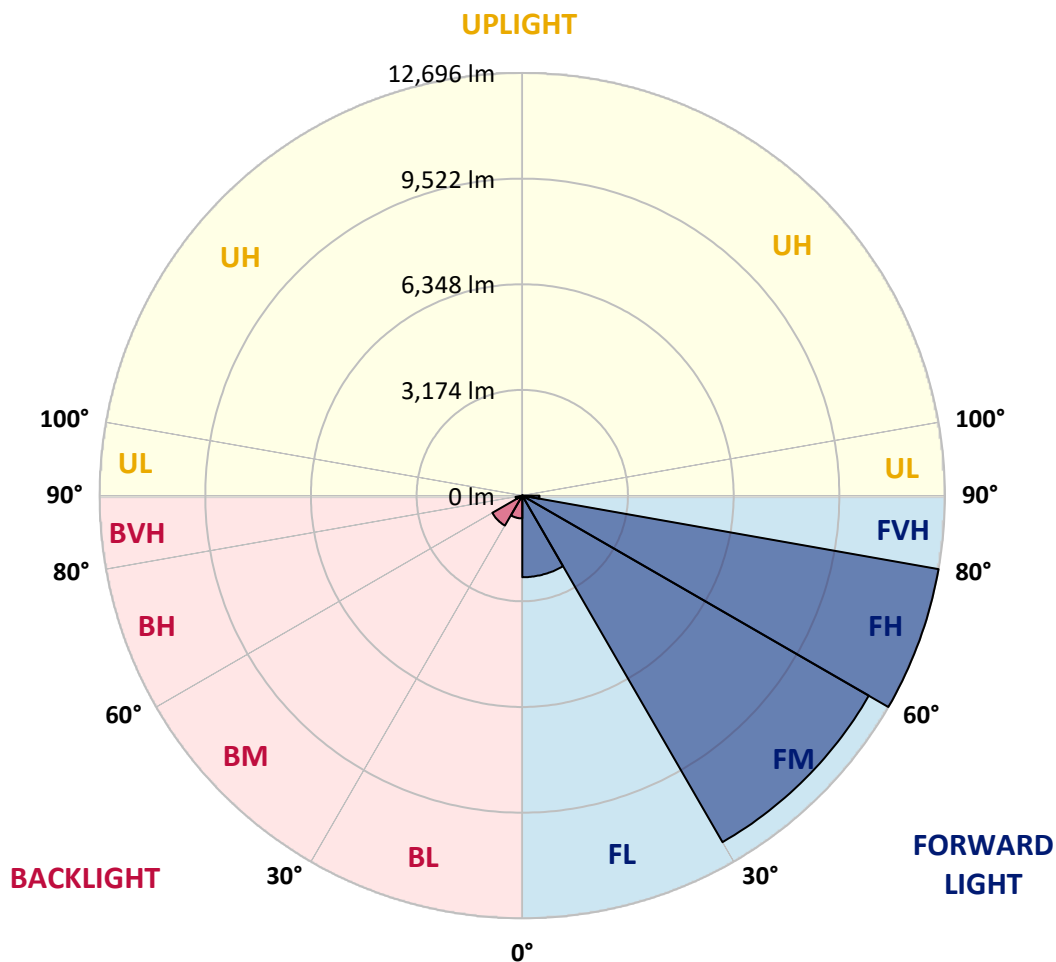
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2450.1	8.3			
FM	(30°-60°)	12018.6	40.6			
FH	(60°-80°)	12695.8	42.9			G5
FVH	(80°-90°)	514.8	1.7			G4/750
BL	(0°-30°)	683.7	2.3	B2/1000		
BM	(30°-60°)	1039.0	3.5	B2/2500		
BH	(60°-80°)	204.2	0.7	B1/500		G1/500
BVH	(80°-90°)	3.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2
2.5°	5338.5	5320.6	5296.7	5268.8	5189.2	5175.3	5127.6	5026.1	4904.7	4805.2	4667.9
5°	5591.2	5601.1	5583.2	5533.5	5475.8	5441.9	5382.2	5225.1	5067.9	4866.9	4642.1
7.5°	5648.9	5668.8	5646.9	5599.1	5543.4	5507.6	5459.8	5324.5	5141.5	4912.7	4604.3
10°	5642.9	5666.8	5652.9	5609.1	5563.3	5529.5	5477.8	5370.3	5223.1	4982.3	4616.2
12.5°	5633.0	5664.8	5662.8	5640.9	5603.1	5577.2	5545.4	5449.9	5312.6	5083.8	4681.9
15°	5605.1	5644.9	5680.7	5698.6	5700.6	5700.6	5660.8	5559.3	5428.0	5217.1	4767.4
17.5°	5617.0	5662.8	5752.3	5804.1	5839.9	5835.9	5794.1	5684.7	5539.4	5354.4	4857.0
20°	5690.7	5752.3	5877.7	5981.2	6017.0	6005.0	5949.3	5822.0	5656.8	5471.8	4944.5
22.5°	5871.7	5927.4	6084.6	6206.0	6231.9	6200.0	6120.4	5947.3	5798.1	5599.1	5050.0
25°	6142.3	6208.0	6353.2	6444.8	6444.8	6426.9	6315.4	6112.5	5957.3	5776.2	5187.3
27.5°	6470.6	6526.3	6669.6	6751.2	6703.4	6651.7	6540.3	6295.5	6146.3	5999.1	5352.4
30°	6802.9	6838.7	6990.0	7025.8	6976.0	6910.4	6791.0	6546.2	6414.9	6301.5	5591.2
32.5°	7117.3	7194.9	7320.3	7312.3	7244.6	7212.8	7103.4	6842.7	6769.1	6757.2	5925.4
35°	7431.7	7491.4	7602.8	7630.7	7571.0	7565.0	7485.4	7292.4	7294.4	7372.0	6446.8
37.5°	7702.3	7756.0	7887.3	7949.0	7960.9	7990.8	7959.0	7831.6	8012.7	8225.6	7137.2
40°	7929.1	8004.7	8171.9	8279.3	8402.7	8512.1	8518.1	8545.9	8910.1	9276.2	8038.5
42.5°	8106.2	8211.7	8454.4	8653.4	8935.9	9075.2	9186.6	9339.8	9952.7	10499.9	9101.1
45°	8337.0	8458.4	8760.8	9073.2	9514.9	9743.8	9899.0	10308.8	11178.4	11924.5	10191.4
47.5°	8719.0	8782.7	9091.1	9546.8	10127.8	10454.1	10756.5	11377.3	12493.6	13162.1	11098.8
50°	9210.5	9252.3	9485.1	10117.8	10869.9	11299.7	11850.9	12581.1	13858.5	14188.8	11612.1
52.5°	9753.7	9767.6	9942.7	10746.6	11701.7	12242.9	12859.7	13761.0	14970.8	14921.1	11952.4
55°	10384.5	10364.6	10513.8	11429.1	12686.6	13305.4	14023.7	14968.8	15935.8	15440.4	12147.4
57.5°	11106.7	11053.0	11198.3	12334.4	13948.1	14688.3	15418.5	16011.4	16684.0	15876.1	12240.9
60°	11862.8	11755.4	11928.5	13351.2	15434.4	16136.8	16743.7	16902.8	17471.9	16222.3	12079.7
62.5°	12465.7	12467.7	12790.0	14433.6	16962.5	17577.4	17899.7	18043.0	18150.4	16146.7	11232.1
65°	13406.9	13438.7	13954.0	15935.8	18731.4	19264.7	19485.5	19019.9	18180.3	15207.6	9958.6
67.5°	14377.9	14479.3	15422.5	18005.2	20774.9	21204.7	20920.1	19208.9	17368.4	13064.6	7551.1
70°	14694.2	14861.4	16415.4	19429.8	22000.6	22223.4	21260.4	18327.5	14519.1	8735.0	3800.4
72.5°	13464.6	13735.2	15844.3	18910.5	21218.6	21025.6	19021.9	15370.7	9230.4	3316.9	1160.0
75°	9495.0	9614.4	13168.1	15687.1	17066.0	16518.8	14469.4	9908.9	3796.4	931.2	397.9
77.5°	4902.7	4845.0	7831.6	10408.3	12171.2	11604.2	9475.1	5129.5	1438.6	388.0	246.7
80°	2534.9	2576.7	3388.5	5453.9	7429.7	6836.7	5051.9	2377.7	766.0	214.9	189.0
82.5°	1420.7	1333.1	1948.0	2381.7	3474.1	2724.0	1938.0	1683.3	334.3	129.3	179.1
85°	258.7	270.6	1068.5	1287.4	1205.8	766.0	624.8	1124.2	97.5	71.6	125.4
87.5°	4.0	4.0	206.9	370.1	234.8	107.4	197.0	161.2	19.9	27.9	21.9
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°	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2
2.5°	4598.3	4522.7	4381.4	4242.1	4065.0	3919.8	3822.3	3720.8	3617.3	3625.3	3649.2
5°	4518.7	4387.4	4108.8	3814.3	3531.8	3277.1	3026.4	2801.6	2710.0	2626.5	2630.4
7.5°	4439.1	4254.1	3846.2	3384.5	2956.8	2523.0	2208.6	1949.9	1812.7	1709.2	1679.3
10°	4403.3	4158.6	3605.4	2970.7	2363.8	1890.3	1486.3	1275.4	1112.3	1060.5	1074.5
12.5°	4419.2	4110.8	3388.5	2596.6	1874.3	1317.2	1034.7	927.2	891.4	885.4	881.5
15°	4449.1	4077.0	3175.6	2182.7	1376.9	979.0	869.5	849.6	845.6	841.7	843.6
17.5°	4488.9	4047.1	2948.8	1794.7	1056.6	855.6	823.8	813.8	811.8	811.8	811.8
20°	4528.6	4013.3	2696.1	1448.5	881.5	807.8	787.9	782.0	780.0	780.0	778.0
22.5°	4574.4	3983.5	2439.4	1138.1	811.8	774.0	756.1	752.1	750.1	748.1	748.1
25°	4640.1	3945.7	2166.8	931.2	768.0	742.2	724.3	720.3	718.3	710.3	712.3
27.5°	4727.6	3917.8	1886.3	803.9	728.2	702.4	690.4	684.5	680.5	674.5	676.5
30°	4847.0	3893.9	1587.8	734.2	682.5	660.6	648.7	644.7	640.7	634.7	634.7
32.5°	5053.9	3903.9	1273.4	678.5	640.7	614.8	602.9	598.9	594.9	589.0	589.0
35°	5364.3	3961.6	1018.7	630.7	591.0	565.1	553.1	553.1	547.2	539.2	537.2
37.5°	5871.7	4108.8	817.8	585.0	543.2	519.3	505.4	501.4	495.4	483.5	481.5
40°	6470.6	4337.6	688.4	539.2	499.4	475.5	463.6	451.7	435.8	423.8	421.8
42.5°	7222.8	4572.4	596.9	493.5	457.6	435.8	421.8	401.9	378.1	362.1	360.1
45°	8006.7	4787.3	535.2	451.7	417.8	399.9	384.0	352.2	322.3	302.4	300.5
47.5°	8591.7	4827.1	485.5	411.9	384.0	366.1	344.2	304.4	264.6	246.7	240.8
50°	8868.3	4634.1	433.8	372.1	350.2	330.3	302.4	256.7	212.9	191.0	187.0
52.5°	8965.8	4299.8	392.0	336.3	316.4	292.5	258.7	206.9	167.1	145.3	143.3
55°	8926.0	3878.0	354.2	302.4	276.6	248.7	214.9	165.1	123.4	105.5	101.5
57.5°	8717.0	3340.8	316.4	268.6	236.8	208.9	171.1	123.4	83.6	67.7	65.7
60°	8154.0	2608.5	278.6	230.8	201.0	171.1	135.3	87.5	51.7	37.8	37.8
62.5°	7202.9	1936.0	242.7	193.0	169.1	137.3	95.5	55.7	27.9	19.9	17.9
65°	6019.0	1428.6	203.0	163.2	141.3	107.4	67.7	33.8	13.9	6.0	4.0
67.5°	4200.3	881.5	169.1	133.3	115.4	77.6	41.8	13.9	6.0	0.0	0.0
70°	1908.2	419.8	129.3	101.5	87.5	55.7	21.9	8.0	4.0	0.0	0.0
72.5°	592.9	220.9	91.5	73.6	59.7	35.8	11.9	6.0	4.0	0.0	0.0
75°	274.6	141.3	57.7	39.8	33.8	17.9	8.0	4.0	2.0	0.0	0.0
77.5°	204.9	109.4	33.8	21.9	17.9	11.9	6.0	4.0	2.0	0.0	0.0
80°	179.1	55.7	19.9	13.9	9.9	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	161.2	27.9	11.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
85°	87.5	15.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	15.9	8.0	6.0	4.0	4.0	2.0	2.0	2.0	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)