

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: P651015

Luminaire Tested: **GALN-SA7C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34066.4 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

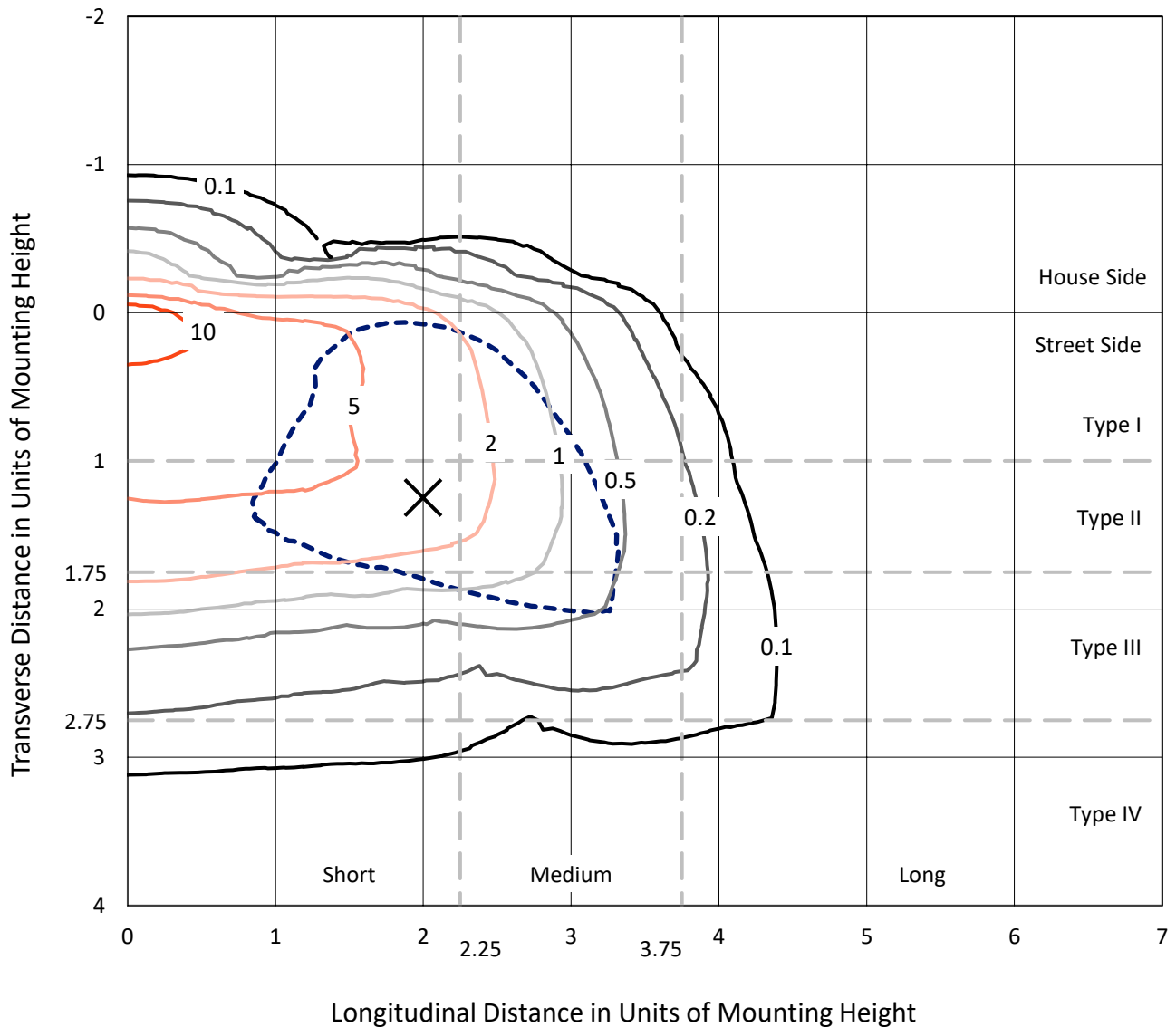
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

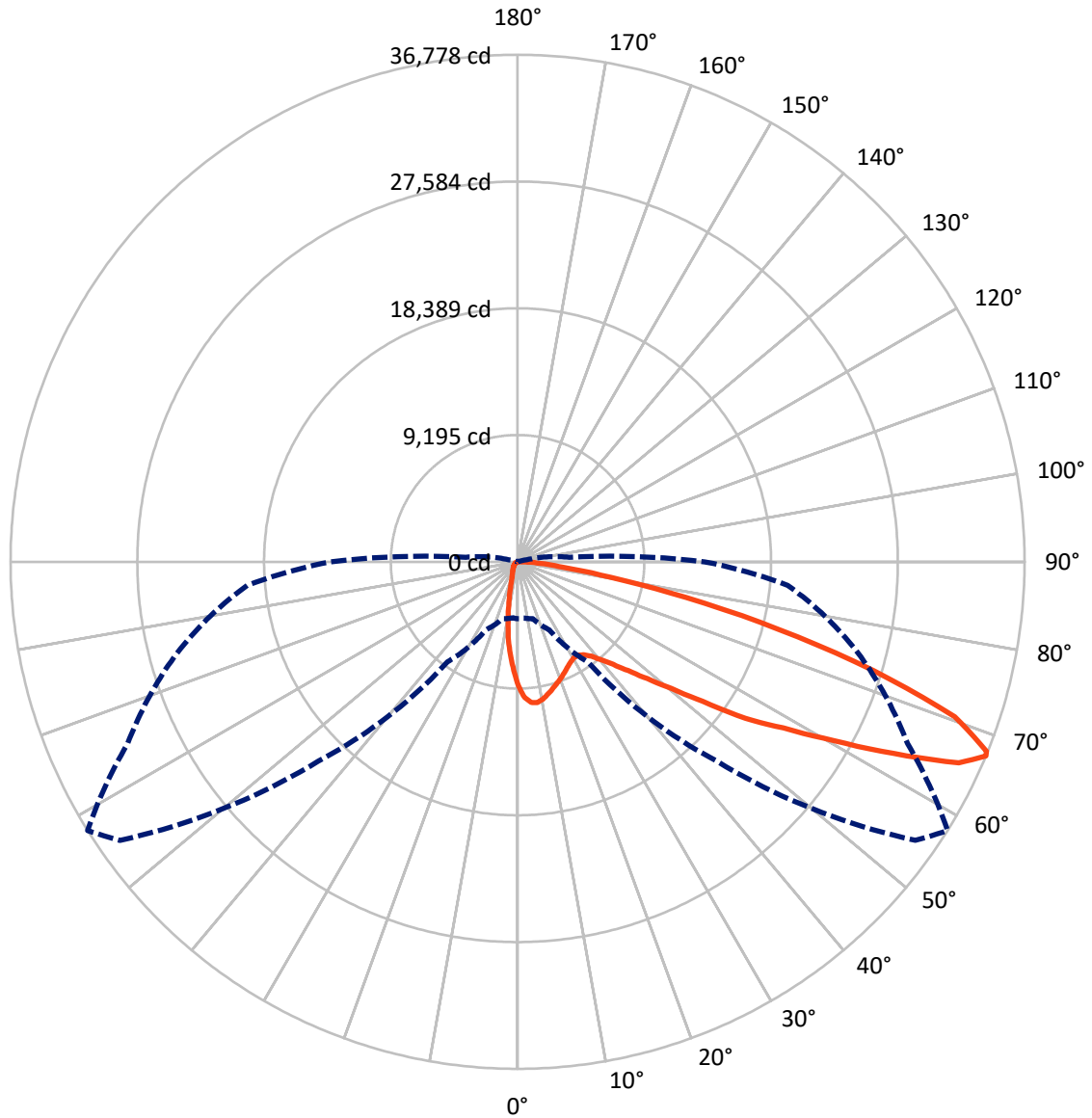
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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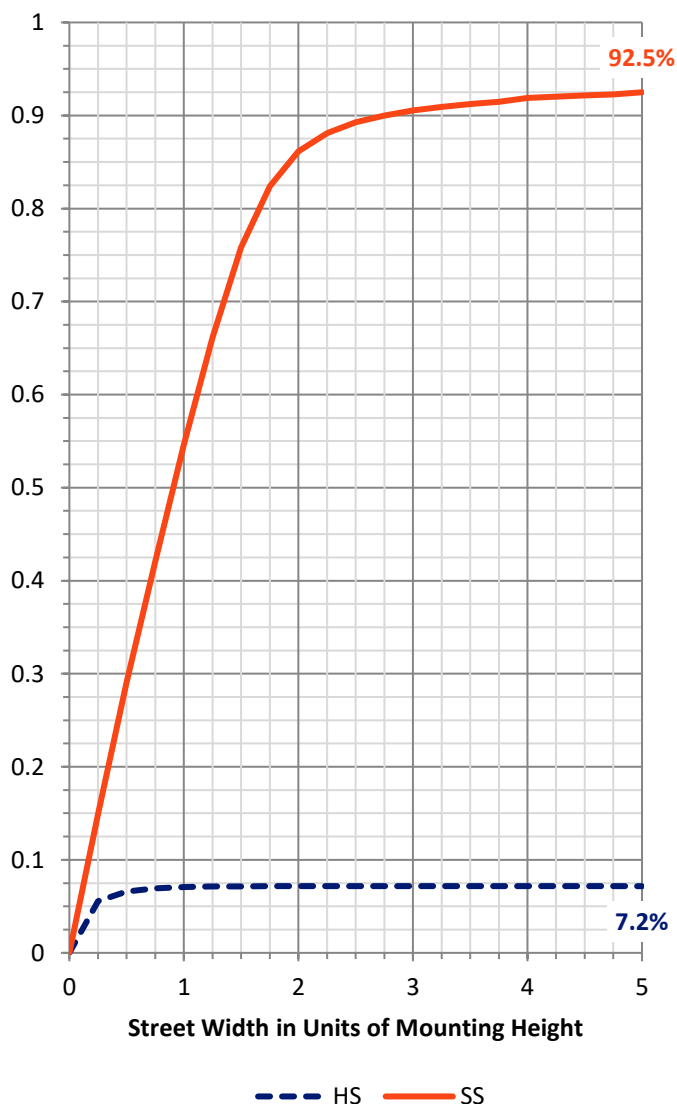
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.4	0.0	2458.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31608.0	0.0	31608.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	34066.4	0.0	34066.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.8	2.2
10°-20°	1582.7	4.6
20°-30°	2144.7	6.3
30°-40°	2974.6	8.7
40°-50°	4744.1	13.9
50°-60°	8200.5	24.1
60°-70°	9367.5	27.5
70°-80°	3905.4	11.5
80°-90°	414.1	1.2
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°	34066.4	100.0
0°-180°	34066.4	100.0

Coefficient of Utilization

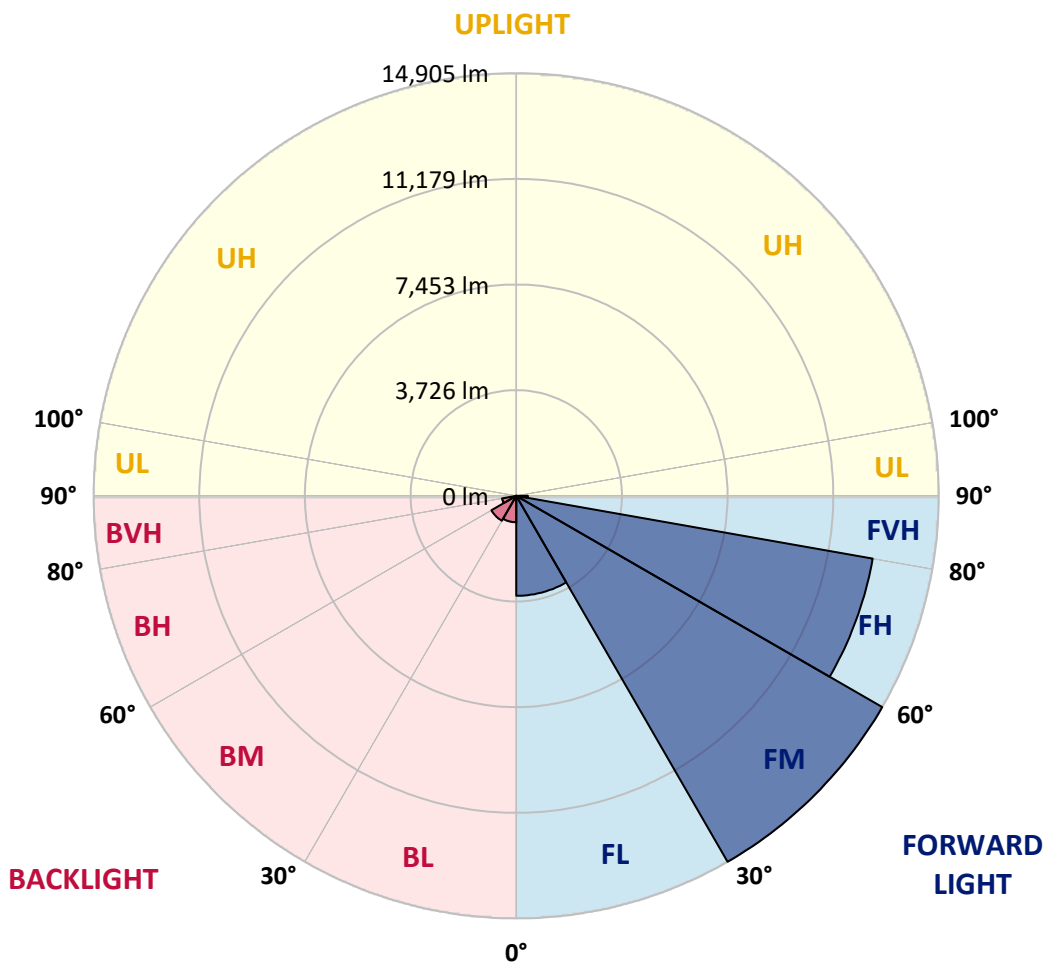


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3526.7	10.4			
FM (30°-60°)	14905.5	43.8			
FH (60°-80°)	12764.7	37.5			G5
FVH (80°-90°)	411.1	1.2			G3/500
BL (0°-30°)	933.5	2.7	B2/1000		
BM (30°-60°)	1013.7	3.0	B2/2500		
BH (60°-80°)	508.2	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7
2.5°	10480.8	10496.7	10437.6	10389.7	10266.8	10134.8	9959.5	9866.1	9706.8	9431.3	9126.3
5°	10726.6	10747.1	10738.1	10726.6	10678.8	10551.4	10328.2	10246.3	10011.9	9563.3	9012.5
7.5°	10180.3	10255.4	10264.5	10353.3	10437.6	10448.9	10364.7	10303.3	10087.0	9561.1	8809.9
10°	9456.4	9506.5	9579.3	9681.8	9884.4	10052.8	10134.8	10125.6	10000.4	9490.5	8573.2
12.5°	8725.6	8753.0	8864.5	9039.8	9287.9	9574.8	9793.3	9836.6	9838.9	9406.3	8375.1
15°	8097.3	8086.0	8172.5	8375.1	8723.4	9083.1	9474.6	9542.9	9652.2	9324.3	8190.7
17.5°	7560.1	7619.3	7632.9	7856.0	8177.0	8643.7	9142.3	9262.9	9481.4	9253.8	8038.2
20°	7227.7	7259.6	7289.2	7414.4	7703.5	8195.2	8830.3	8996.5	9322.1	9190.0	7867.4
22.5°	7129.8	7150.4	7125.3	7164.0	7368.8	7806.0	8491.2	8712.0	9169.6	9130.8	7728.5
25°	7204.9	7225.5	7166.2	7120.7	7191.3	7489.5	8163.3	8432.0	9046.6	9119.5	7623.8
27.5°	7387.1	7425.8	7343.9	7261.9	7220.9	7318.8	7906.2	8218.0	8962.4	9174.1	7576.1
30°	7671.7	7694.4	7632.9	7532.8	7439.5	7341.6	7771.8	8070.0	8939.7	9301.5	7571.4
32.5°	7981.3	8029.0	7994.9	7928.9	7808.3	7576.1	7810.5	8074.6	8994.2	9486.0	7628.4
35°	8363.7	8418.3	8450.2	8436.5	8281.7	7992.6	8056.4	8279.5	9140.0	9825.2	7783.2
37.5°	8739.3	8787.1	8966.9	9028.4	8891.8	8618.7	8534.4	8682.4	9460.9	10269.1	8063.2
40°	9169.6	9233.3	9486.0	9720.4	9654.4	9367.6	9212.8	9335.8	9952.6	10938.4	8593.6
42.5°	9581.6	9695.4	10080.1	10494.4	10555.9	10235.0	10132.5	10173.5	10681.1	11901.3	9333.4
45°	10166.6	10273.7	10769.9	11332.1	11621.3	11370.9	11266.2	11259.3	11680.5	13255.8	10533.1
47.5°	11011.2	11106.8	11691.8	12247.3	12761.8	12795.9	12597.9	12666.2	12937.1	14840.2	12003.8
50°	12047.0	12272.4	12657.0	13235.3	13922.8	14478.2	14539.7	14448.6	14680.8	16675.0	13770.3
52.5°	13551.7	13638.2	13991.0	14466.9	15272.7	16215.2	16945.9	16820.7	16747.8	18423.4	15555.0
55°	14674.0	14790.1	15338.7	15992.1	17173.6	18416.5	20000.9	20044.1	19124.5	20103.3	17301.1
57.5°	14334.8	14512.4	15343.3	16656.8	19254.3	21526.2	22705.3	22734.9	21323.6	21735.6	19272.4
60°	12593.3	12677.6	13868.2	15621.0	19431.8	24895.3	26541.1	26302.1	23561.3	23561.3	21013.9
62.5°	8930.5	9062.5	10027.7	12607.0	17549.1	26065.4	31135.0	30641.1	26643.6	25307.3	22052.0
65°	5707.0	5579.6	6219.3	7958.5	13073.7	24337.5	35134.8	35164.4	29543.8	26006.2	21485.2
67°	4134.0	4084.0	4268.3	5440.7	8864.5	20458.5	35219.0	36778.4	31210.2	25564.5	19673.1
67.5°	3781.2	3819.9	3954.2	4908.0	8054.1	18616.8	34836.6	36682.7	31585.8	25298.2	19017.4
70°	2866.0	2800.0	2945.8	3471.6	4828.3	11744.2	29967.2	33643.7	31119.1	22655.3	15195.4
72.5°	2108.0	2101.2	2303.8	2838.7	3717.5	6255.7	22495.9	26976.0	25423.4	17250.9	9567.9
75°	1422.8	1486.6	1809.7	2372.0	3369.1	4056.6	15336.5	19570.7	17649.3	9795.5	3911.0
77.5°	810.4	814.9	1165.5	1905.4	3025.4	3264.4	9087.6	12468.2	9342.6	3257.6	1161.0
80°	350.6	384.8	578.2	1384.1	2508.6	2891.1	5210.8	6852.1	3778.9	689.8	375.6
82.5°	129.8	152.6	255.0	851.4	1830.3	2381.2	3148.4	3271.2	1281.7	243.6	234.5
85°	0.0	4.5	93.4	398.4	953.9	1063.1	2103.4	1939.5	566.8	116.1	152.6
87.5°	0.0	0.0	0.0	41.0	125.2	396.1	653.4	728.5	136.6	41.0	36.4
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°	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7	9030.7
2.5°	8962.4	8814.4	8443.4	8072.3	7796.8	7566.9	7220.9	7031.9	6931.8	6783.8	6792.9
5°	8737.1	8436.5	7783.2	7107.1	6560.7	6028.0	5390.6	5133.4	4917.2	4794.2	4712.3
7.5°	8402.3	7958.5	6991.0	6089.5	5249.5	4318.5	3619.6	3152.9	2838.7	2722.7	2611.1
10°	8035.8	7446.3	6187.4	4937.6	3772.1	2811.4	2219.6	1791.6	1639.0	1497.9	1511.5
12.5°	7696.7	6979.6	5449.8	3897.3	2642.9	1787.0	1393.2	1217.9	1167.8	1151.9	1151.9
15°	7419.0	6533.4	4657.6	2929.8	1812.0	1284.0	1115.5	1067.6	1049.5	1044.9	1044.9
17.5°	7123.0	6110.0	3942.8	2164.9	1318.1	1074.5	1017.6	985.7	978.8	974.3	974.3
20°	6858.9	5684.3	3264.4	1611.7	1065.4	967.5	931.1	910.6	903.7	899.2	901.5
22.5°	6608.6	5306.4	2627.0	1217.9	937.9	880.9	844.5	824.1	810.4	799.0	801.3
25°	6385.5	4942.1	2112.5	997.1	844.5	794.5	758.1	728.5	698.9	685.2	683.0
27.5°	6228.4	4623.5	1645.8	853.7	760.3	705.7	660.2	623.8	585.1	564.6	560.0
30°	6098.6	4300.2	1302.1	753.5	676.1	623.8	566.8	514.4	473.5	453.0	443.9
32.5°	6014.4	3992.9	1026.7	671.5	605.5	541.8	478.0	425.7	380.1	359.7	355.2
35°	6000.7	3735.6	840.0	603.2	541.8	473.5	407.5	350.6	311.8	291.4	286.9
37.5°	6098.6	3537.6	703.4	548.6	489.5	414.3	341.4	289.1	255.0	239.0	236.7
40°	6360.4	3412.4	610.1	503.1	441.6	359.7	291.4	245.8	211.7	195.8	195.8
42.5°	6858.9	3417.0	548.6	459.9	393.8	307.3	248.1	204.9	175.3	161.6	157.1
45°	7637.5	3571.7	496.3	416.6	348.3	266.3	211.7	168.5	138.8	127.5	127.5
47.5°	8680.1	3879.1	450.8	373.3	307.3	227.7	179.8	136.6	111.5	100.2	100.2
50°	10043.7	4373.0	412.0	336.9	273.2	195.8	145.7	111.5	86.5	77.4	75.1
52.5°	11468.8	4983.2	366.5	305.0	234.5	166.2	118.4	86.5	66.0	59.2	56.9
55°	13041.8	5579.6	323.3	273.2	191.2	138.8	93.4	68.3	47.8	41.0	41.0
57.5°	14628.5	6164.6	270.9	227.7	150.3	102.4	72.8	50.1	31.9	25.1	25.1
60°	15971.6	6353.6	229.9	184.4	113.8	72.8	52.4	31.9	18.2	11.4	11.4
62.5°	16155.9	5716.2	193.5	141.1	81.9	50.1	27.3	18.2	6.8	4.5	4.5
65°	15154.3	4644.0	161.6	107.0	54.7	25.1	11.4	6.8	2.3	0.0	0.0
67°	13579.0	3765.2	132.0	79.6	38.7	15.9	6.8	2.3	0.0	0.0	0.0
67.5°	13176.1	3590.0	127.5	75.1	34.1	13.6	4.5	2.3	0.0	0.0	0.0
70°	10339.7	2688.5	91.1	45.5	20.5	9.1	0.0	0.0	0.0	0.0	0.0
72.5°	6426.4	1520.7	66.0	27.3	13.6	4.5	0.0	0.0	0.0	0.0	0.0
75°	2429.0	532.7	45.5	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	755.8	202.6	27.3	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	255.0	77.4	18.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	157.1	31.9	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.9	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	4.5	2.3	0.0	0.0	0.0	0.0	0.0	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)