

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: P459342

Luminaire Tested: **GALN-SA8A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459342
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-SA8A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 25716 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

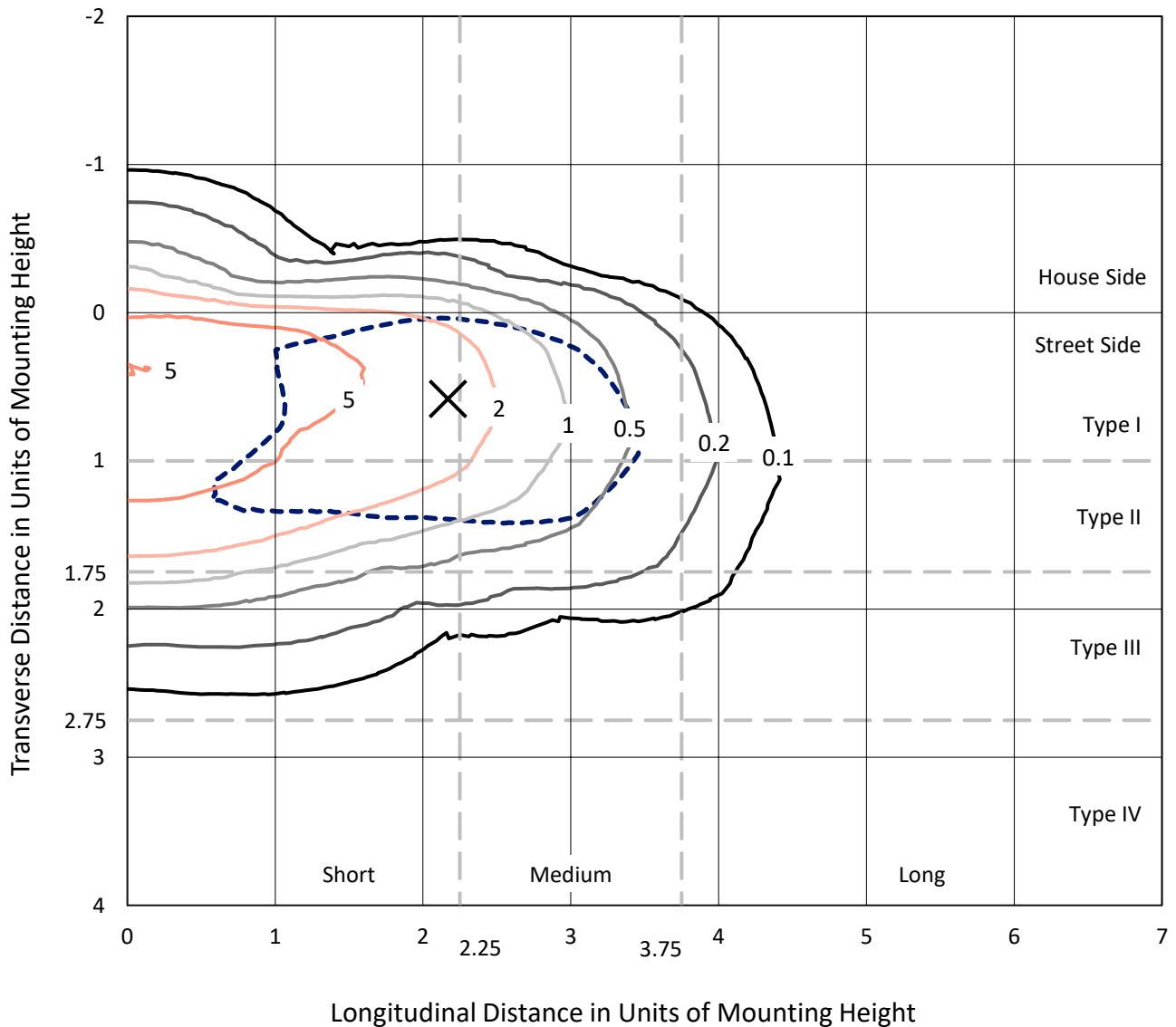
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

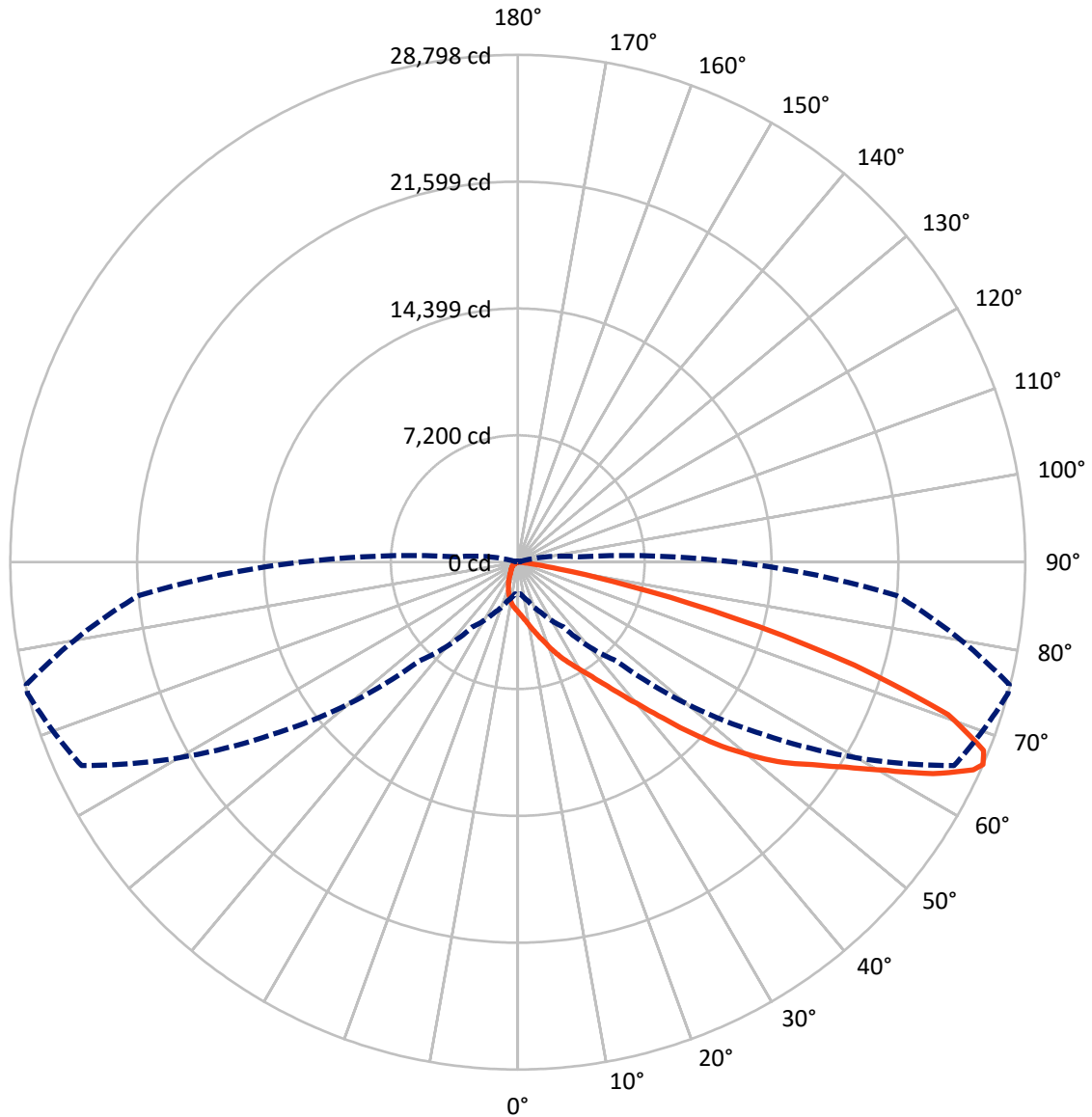
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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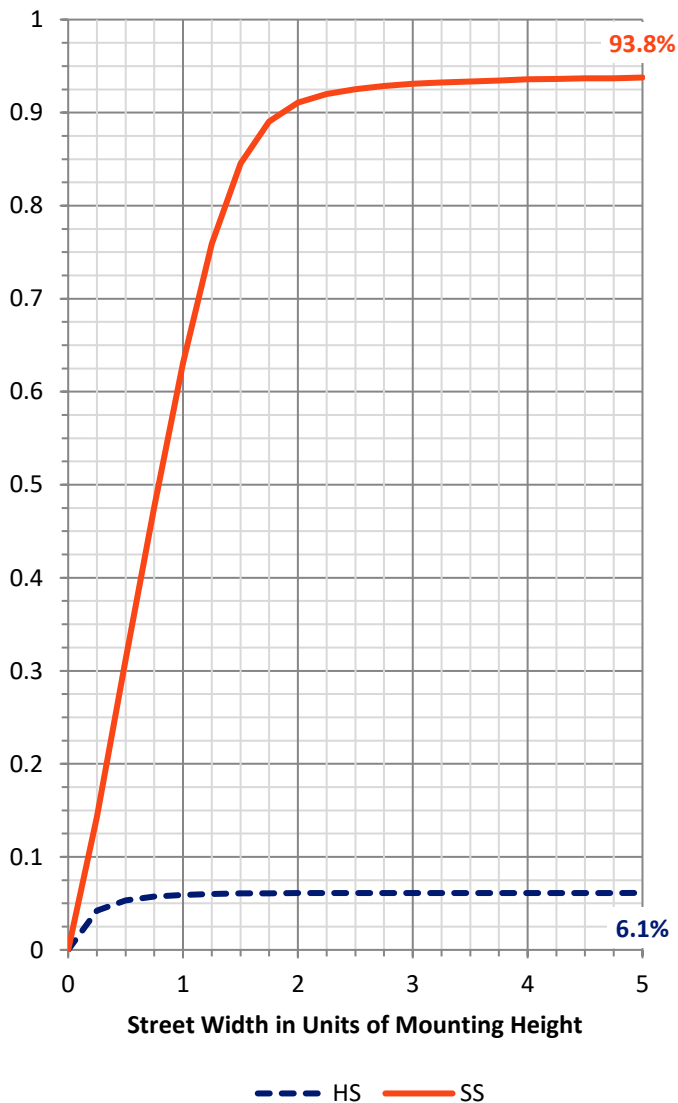
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1587.6	0.0	1587.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24128.4	0.0	24128.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	25716.0	0.0	25716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	1.1
10°-20°	798.3	3.1
20°-30°	1378.5	5.4
30°-40°	2486.5	9.7
40°-50°	4492.0	17.5
50°-60°	7003.0	27.2
60°-70°	6652.6	25.9
70°-80°	2493.2	9.7
80°-90°	140.7	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°	25716.0	100.0
0°-180°	25716.0	100.0

Coefficient of Utilization



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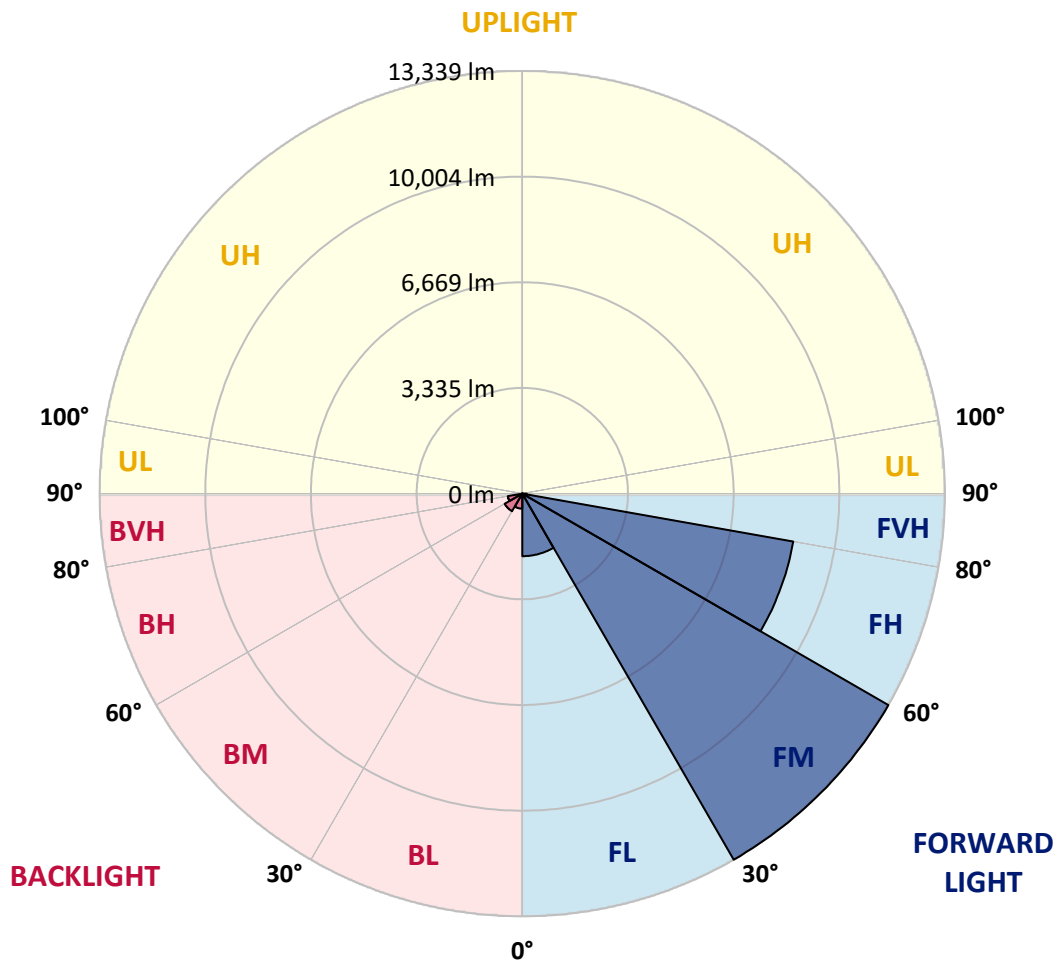
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.9	7.7			
FM (30°-60°)	13338.9	51.9			
FH (60°-80°)	8682.2	33.8			G4/12000
FVH (80°-90°)	133.4	0.5			G2/225
BL (0°-30°)	474.1	1.8	B1/500		
BM (30°-60°)	642.6	2.5	B1/1000		
BH (60°-80°)	463.6	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	3359.9	3318.1	3331.4	3312.4	3268.7	3204.0	3147.0	3065.2	2983.4	2970.1	2878.9
5°	3803.0	3791.6	3776.4	3721.2	3690.8	3591.9	3474.0	3333.3	3164.1	3133.7	2968.2
7.5°	4105.3	4099.6	4107.2	4078.7	4052.1	3962.7	3837.2	3645.1	3382.7	3365.6	3089.9
10°	4204.2	4219.4	4247.9	4293.6	4335.4	4306.9	4211.8	3972.2	3666.1	3616.6	3228.7
12.5°	4147.1	4164.3	4232.7	4354.4	4489.4	4567.4	4529.3	4354.4	3966.5	3926.6	3384.6
15°	4000.7	4021.6	4118.6	4306.9	4548.4	4768.9	4864.0	4738.5	4316.4	4251.7	3572.9
17.5°	3784.0	3814.4	3953.2	4202.3	4533.1	4913.4	5181.6	5139.7	4689.1	4628.2	3778.3
20°	3620.4	3643.2	3761.1	4046.4	4468.5	4993.3	5483.9	5601.8	5149.2	5044.6	4019.7
22.5°	3728.8	3736.4	3776.4	3947.5	4352.5	5014.2	5750.1	6082.9	5637.9	5544.7	4270.7
25°	4259.3	4183.3	4143.3	4105.3	4327.8	4995.2	5991.6	6584.8	6124.7	6025.8	4519.8
27.5°	5096.0	5061.8	4860.2	4590.2	4538.8	5019.9	6151.3	7060.2	6582.9	6476.5	4763.2
30°	6006.8	5947.9	5824.3	5428.7	5031.3	5194.9	6267.3	7522.3	7124.9	6984.2	4985.7
32.5°	6843.5	6881.5	6697.0	6290.1	5830.0	5567.6	6417.5	8026.2	7746.7	7571.7	5244.3
35°	7818.9	7895.0	7611.7	7221.8	6683.7	6240.7	6710.3	8594.7	8535.8	8315.2	5643.6
37.5°	8809.6	8855.2	8682.2	8134.6	7649.7	7096.3	7261.8	9296.4	9507.4	9319.2	6120.9
40°	9642.4	9705.2	9577.8	9091.0	8573.8	8087.0	8062.3	10060.8	10663.5	10469.6	6832.0
42.5°	10279.4	10327.0	10330.8	9986.6	9520.7	9300.2	9083.4	11036.2	12112.5	11888.1	7657.3
45°	11083.8	11152.2	11112.3	10878.4	10530.4	10490.5	10378.3	12215.2	13846.6	13563.3	8727.8
47.5°	12327.3	12373.0	12274.1	11998.4	11644.7	11707.5	11640.9	13536.7	15615.0	15371.6	9836.4
50°	13190.6	13266.7	13407.4	13517.7	13261.0	13029.0	12831.2	14770.7	17294.0	17075.4	10969.7
52.5°	13181.1	13306.6	13751.6	14306.8	14867.7	14797.4	14228.8	16134.1	18897.0	18627.0	12034.5
55°	12293.1	12536.5	13190.6	14175.6	15729.1	16503.0	16244.4	17712.3	20281.3	20098.7	13268.6
57.5°	10460.1	10608.4	11517.3	12894.0	15248.0	17305.4	18579.4	19851.5	21941.3	21855.7	15185.3
60°	7035.5	7102.1	8271.5	9973.3	12981.4	16504.9	20290.8	22439.4	23985.4	23943.5	17423.3
62.5°	4031.2	4059.7	4907.7	6343.4	9237.4	13987.3	20435.3	25632.0	26436.4	26459.2	20013.1
65°	2169.6	2184.8	2869.3	3723.1	5620.8	9969.5	18376.0	27381.4	28417.7	28461.5	21618.0
66°	1873.0	1800.7	2283.7	3173.6	4472.3	7934.9	17073.4	27318.7	28798.0	28750.5	21561.0
67.5°	1424.2	1488.9	1823.5	2439.6	3314.3	5641.7	14095.7	26103.6	28509.0	28360.7	20684.4
70°	1019.2	1045.8	1298.7	1739.9	2257.1	3095.6	9007.3	21680.8	25911.6	25711.9	18020.4
72.5°	657.9	686.4	920.3	1258.8	1631.5	1690.4	5042.7	15664.4	19977.0	19948.5	13570.9
75°	469.7	496.3	608.5	901.3	1226.5	1045.8	2428.2	10557.1	12700.0	12614.5	8395.1
77.5°	340.4	353.7	406.9	589.5	876.6	749.2	1125.7	5637.9	6322.4	6621.0	3709.8
80°	195.9	207.3	283.3	359.4	593.3	511.5	538.1	2262.8	2333.1	2220.9	1159.9
82.5°	97.0	110.3	169.2	245.3	370.8	344.2	247.2	680.7	718.8	699.7	292.8
85°	22.8	28.5	95.1	161.6	180.6	154.0	119.8	199.7	247.2	241.5	112.2
87.5°	1.9	3.8	34.2	28.5	30.4	51.3	41.8	51.3	79.9	74.2	39.9
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°	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	2837.0	2800.9	2696.3	2593.6	2508.1	2418.7	2336.9	2289.4	2270.4	2249.5	2259.0
5°	2876.9	2789.5	2578.4	2395.9	2217.1	2065.0	1943.3	1865.4	1827.3	1821.6	1812.1
7.5°	2930.2	2780.0	2452.9	2167.7	1933.8	1764.6	1625.8	1513.6	1479.4	1448.9	1424.2
10°	2994.8	2762.9	2297.0	1928.1	1679.0	1466.0	1283.5	1150.4	1081.9	1062.9	1076.2
12.5°	3063.3	2730.5	2133.5	1707.5	1420.4	1148.5	979.3	912.7	893.7	886.1	888.0
15°	3131.7	2690.6	1962.3	1494.6	1131.4	916.5	838.6	821.4	813.8	810.0	806.2
17.5°	3194.5	2626.0	1770.3	1287.3	916.5	783.4	754.9	739.7	724.5	718.8	709.3
20°	3268.7	2551.8	1597.2	1055.3	775.8	709.3	675.0	646.5	623.7	608.5	606.6
22.5°	3339.0	2456.7	1416.6	874.7	707.4	637.0	581.9	551.4	524.8	505.8	511.5
25°	3377.0	2340.7	1255.0	762.5	644.6	564.7	503.9	465.9	437.3	427.8	425.9
27.5°	3377.0	2198.1	1097.2	697.8	587.6	500.1	437.3	401.2	382.2	368.9	370.8
30°	3350.4	2040.3	950.7	648.4	538.1	443.0	384.1	351.8	336.6	327.1	325.2
32.5°	3329.5	1890.1	825.2	600.9	486.8	393.6	342.3	317.5	302.3	292.8	292.8
35°	3361.8	1760.8	728.3	553.3	439.2	355.6	309.9	287.1	271.9	264.3	262.4
37.5°	3447.4	1642.9	654.1	502.0	395.5	323.3	287.1	260.5	245.3	235.8	232.0
40°	3658.5	1576.3	599.0	454.5	353.7	296.6	260.5	235.8	216.8	207.3	205.4
42.5°	3996.9	1578.2	545.7	410.7	321.4	273.8	237.7	209.2	188.2	178.7	176.8
45°	4506.5	1650.5	503.9	368.9	292.8	249.1	213.0	182.5	163.5	154.0	154.0
47.5°	5116.9	1791.2	467.8	332.8	266.2	226.3	188.2	157.8	138.8	131.2	131.2
50°	5778.6	1973.7	431.6	294.7	243.4	201.6	161.6	136.9	121.7	116.0	116.0
52.5°	6453.6	2194.3	395.5	264.3	218.7	174.9	138.8	121.7	108.4	104.6	102.7
55°	7339.7	2475.7	357.5	232.0	192.1	150.2	123.6	106.5	91.3	85.6	83.7
57.5°	8703.1	2899.8	315.6	203.5	157.8	125.5	106.5	89.4	72.3	62.7	60.8
60°	10347.9	3417.0	271.9	178.7	127.4	102.7	85.6	68.5	53.2	41.8	39.9
62.5°	11888.1	3745.9	230.1	150.2	100.8	78.0	60.8	51.3	38.0	26.6	24.7
65°	12568.8	3635.6	190.1	121.7	79.9	55.1	39.9	36.1	22.8	11.4	9.5
66°	12342.6	3472.1	174.9	110.3	72.3	47.5	34.2	30.4	17.1	5.7	5.7
67.5°	11675.1	3086.1	152.1	95.1	62.7	38.0	26.6	22.8	9.5	1.9	0.0
70°	10003.7	2496.7	119.8	70.4	45.6	26.6	15.2	11.4	5.7	0.0	0.0
72.5°	7683.9	1859.7	95.1	53.2	32.3	15.2	7.6	3.8	5.7	0.0	0.0
75°	4708.1	1062.9	74.2	39.9	20.9	9.5	5.7	0.0	5.7	1.9	0.0
77.5°	2089.7	477.3	49.4	26.6	15.2	7.6	3.8	0.0	3.8	1.9	0.0
80°	528.6	155.9	28.5	19.0	11.4	5.7	1.9	0.0	3.8	3.8	1.9
82.5°	144.5	57.0	20.9	15.2	9.5	5.7	1.9	0.0	3.8	3.8	3.8
85°	57.0	26.6	19.0	15.2	11.4	5.7	1.9	0.0	3.8	3.8	3.8
87.5°	26.6	19.0	19.0	17.1	13.3	5.7	1.9	0.0	3.8	1.9	3.8
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)