

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: P647180

Luminaire Tested: **GALN-SA9C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647180
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-SA9C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 37306.8 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

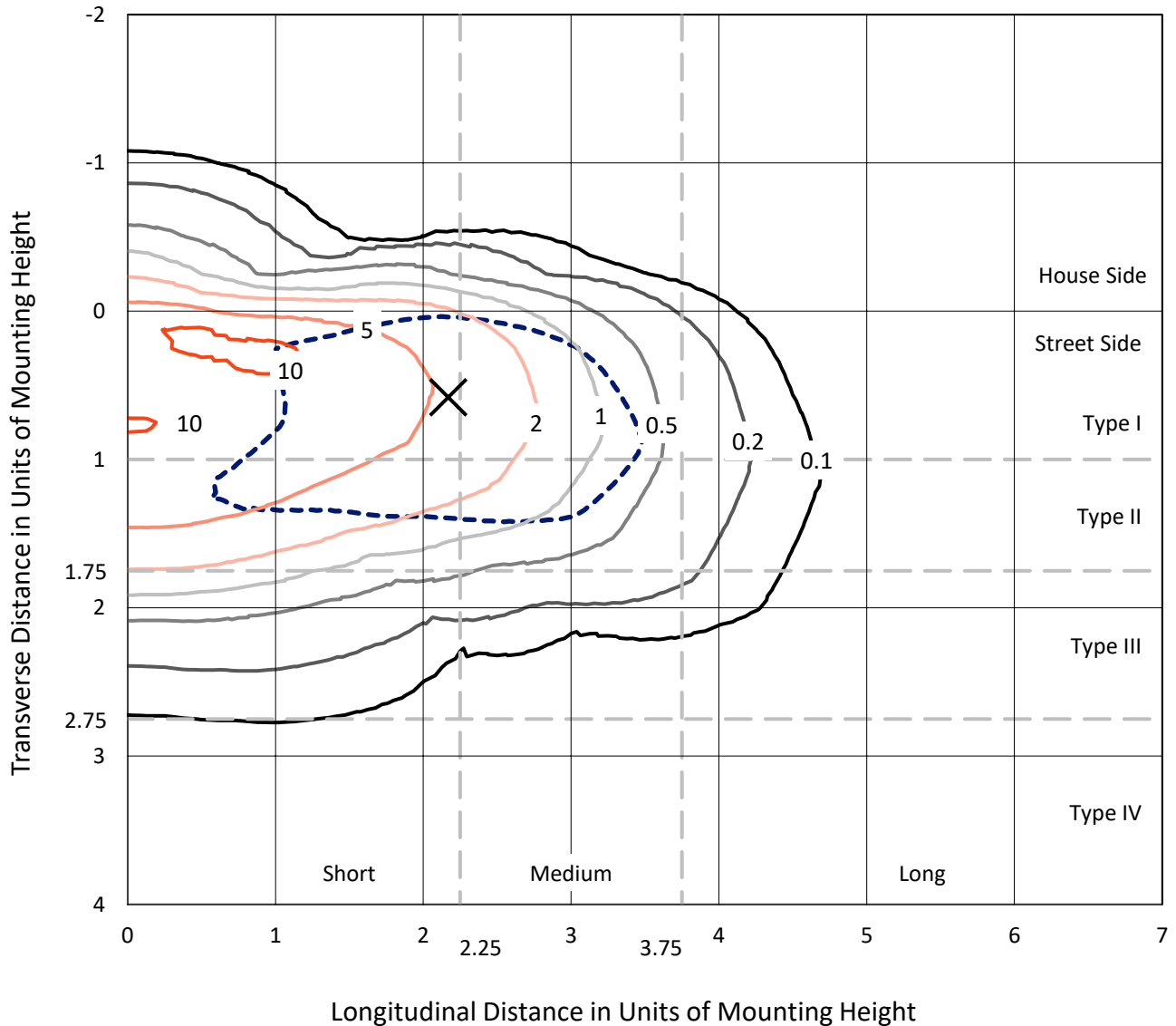
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647180
 CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

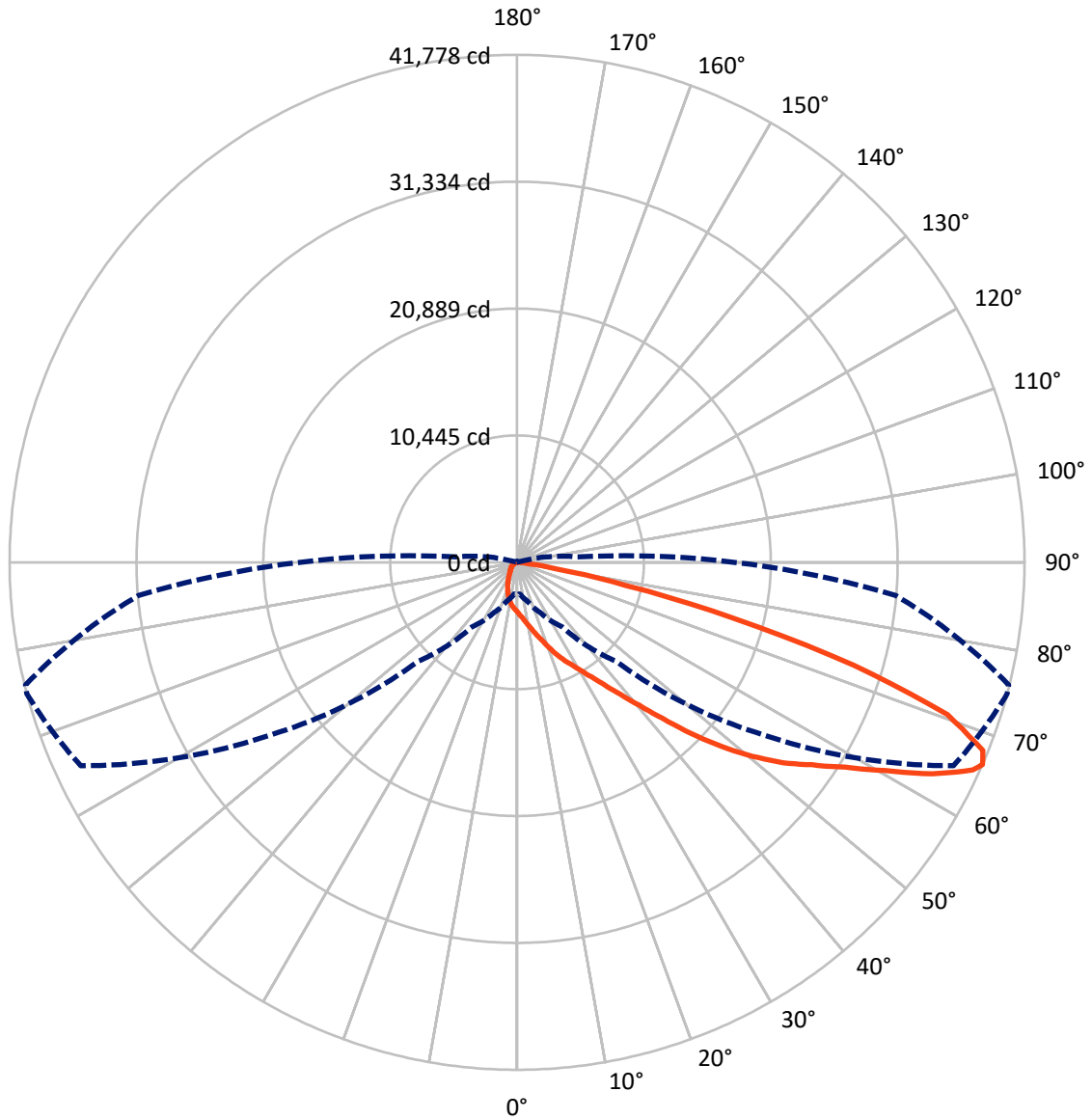
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P647180
CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P647180
 CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

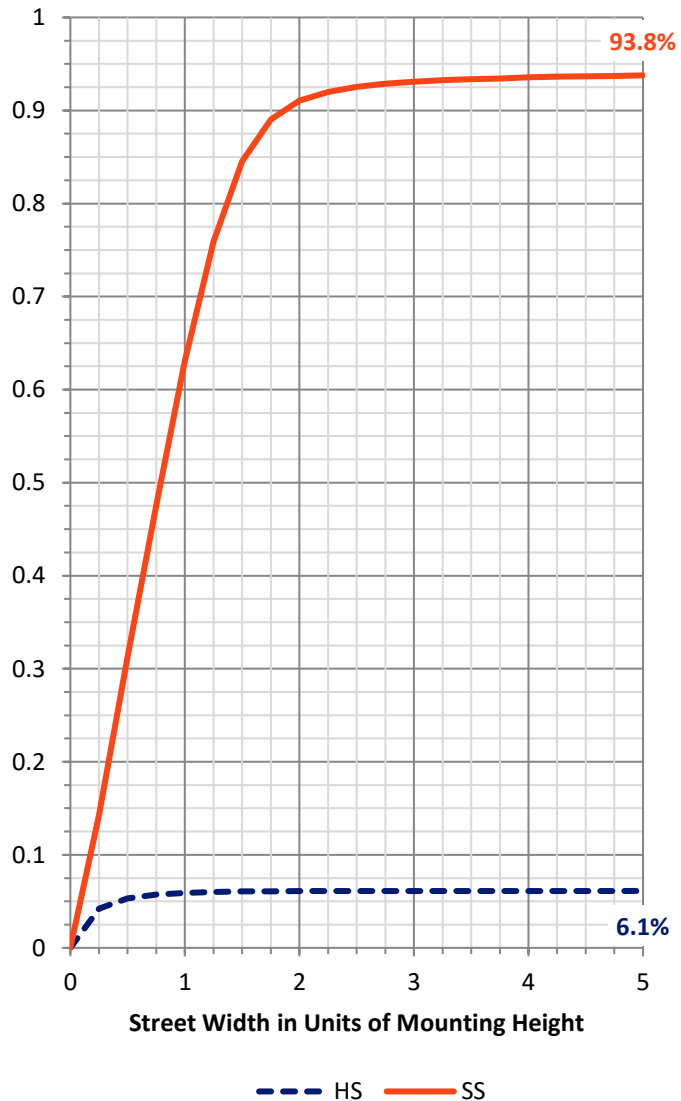
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.2	0.0	2303.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	35003.7	0.0	35003.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	37306.8	0.0	37306.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.5	1.1
10°-20°	1158.1	3.1
20°-30°	1999.8	5.4
30°-40°	3607.3	9.7
40°-50°	6516.6	17.5
50°-60°	10159.4	27.2
60°-70°	9651.0	25.9
70°-80°	3617.0	9.7
80°-90°	204.1	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°	37306.8	100.0
0°-180°	37306.8	100.0

Coefficient of Utilization

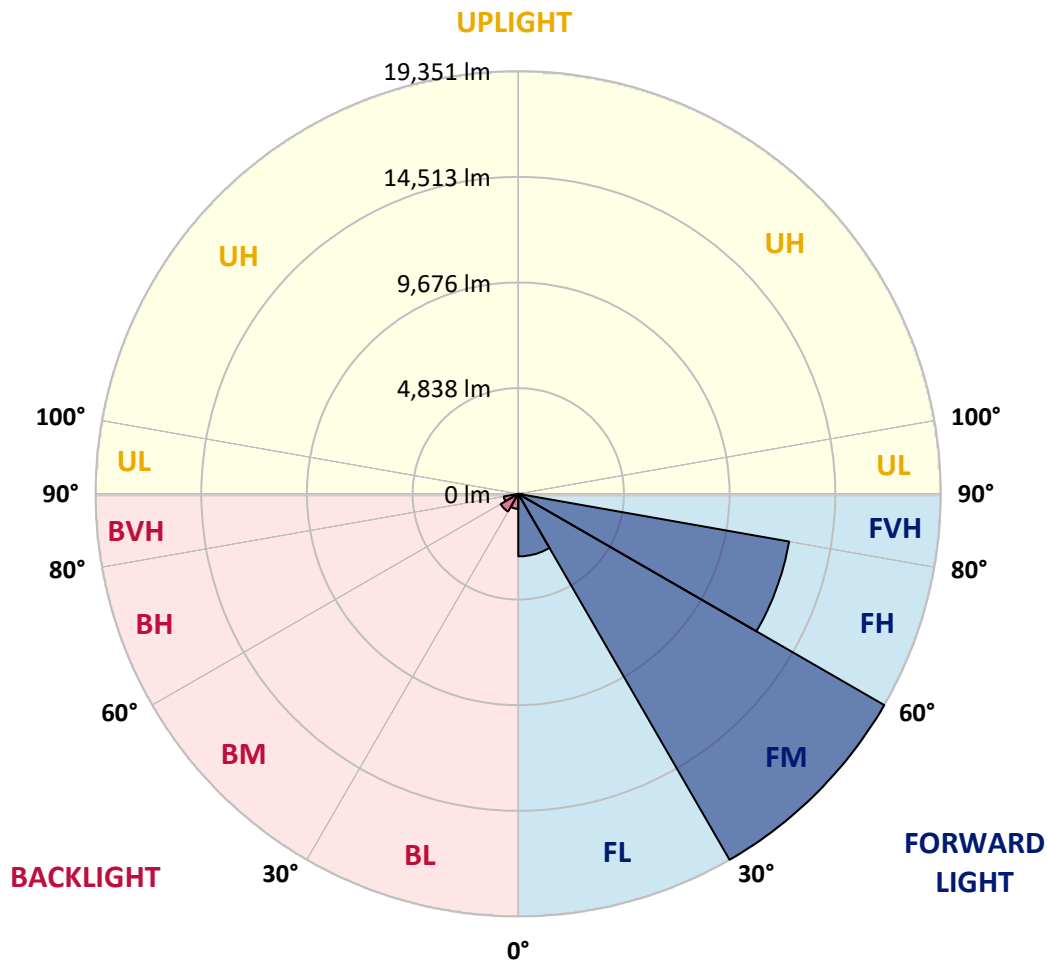


REPORT NUMBER: P647180
 CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.6	7.7			
FM (30°-60°)	19351.0	51.9			
FH (60°-80°)	12595.5	33.8			G5
FVH (80°-90°)	193.5	0.5			G2/225
BL (0°-30°)	687.8	1.8	B2/1000		
BM (30°-60°)	932.3	2.5	B1/1000		
BH (60°-80°)	672.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





REPORT NUMBER: P647180

CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9
2.5°	4874.3	4813.6	4832.9	4805.3	4741.9	4648.1	4565.4	4446.7	4328.1	4308.8	4176.4
5°	5517.1	5500.5	5478.4	5398.5	5354.3	5210.9	5039.9	4835.7	4590.2	4546.1	4306.0
7.5°	5955.7	5947.4	5958.4	5917.1	5878.5	5748.8	5566.7	5288.1	4907.5	4882.6	4482.6
10°	6099.1	6121.2	6162.5	6228.8	6289.4	6248.1	6110.1	5762.6	5318.4	5246.7	4684.0
12.5°	6016.3	6041.2	6140.5	6317.0	6512.9	6626.0	6570.9	6317.0	5754.3	5696.4	4910.2
15°	5804.0	5834.3	5975.0	6248.1	6598.4	6918.4	7056.3	6874.3	6261.9	6168.1	5183.3
17.5°	5489.5	5533.6	5735.0	6096.4	6576.3	7128.0	7517.0	7456.3	6802.5	6714.3	5481.2
20°	5252.2	5285.3	5456.4	5870.2	6482.5	7243.9	7955.6	8126.6	7470.1	7318.4	5831.5
22.5°	5409.5	5420.6	5478.4	5726.7	6314.3	7274.2	8341.8	8824.6	8179.1	8043.9	6195.6
25°	6179.1	6068.8	6010.9	5955.7	6278.4	7246.7	8692.2	9552.8	8885.2	8741.8	6557.0
27.5°	7392.9	7343.2	7050.8	6659.1	6584.6	7282.5	8923.9	10242.4	9550.0	9395.5	6910.1
30°	8714.2	8628.7	8449.4	7875.6	7299.0	7536.3	9092.1	10912.7	10336.2	10132.1	7232.9
32.5°	9928.0	9983.1	9715.5	9125.2	8457.7	8077.0	9310.0	11643.8	11238.2	10984.5	7608.0
35°	11343.1	11453.4	11042.4	10476.9	9696.2	9053.5	9734.9	12468.6	12383.1	12063.1	8187.4
37.5°	12780.3	12846.4	12595.5	11801.0	11097.5	10294.8	10534.9	13486.5	13792.6	13519.6	8879.7
40°	13988.5	14079.5	13894.7	13188.5	12438.2	11732.0	11696.1	14595.4	15469.9	15188.5	9911.4
42.5°	14912.6	14981.6	14987.1	14487.8	13812.0	13492.0	13177.5	16010.5	17571.9	17246.4	11108.6
45°	16079.5	16178.8	16120.9	15781.6	15276.7	15218.9	15056.1	17720.8	20087.6	19676.6	12661.7
47.5°	17883.6	17949.8	17806.4	17406.3	16893.2	16984.3	16887.7	19638.0	22653.1	22300.0	14269.9
50°	19136.0	19246.3	19450.4	19610.4	19238.0	18901.5	18614.6	21428.3	25088.9	24771.6	15914.0
52.5°	19122.1	19304.2	19949.7	20755.2	21569.0	21466.9	20642.1	23406.1	27414.3	27022.6	17458.8
55°	17833.9	18187.0	19136.0	20564.9	22818.6	23941.3	23566.1	25695.7	29422.5	29157.7	19249.0
57.5°	15174.7	15389.9	16708.4	18705.6	22120.7	25105.4	26953.6	28799.1	31830.7	31706.6	22029.6
60°	10206.6	10303.1	11999.6	14468.5	18832.5	23944.1	29436.3	32553.5	34796.1	34735.4	25276.4
62.5°	5848.1	5889.5	7119.7	9202.4	13401.0	20291.8	29645.9	37185.0	38351.9	38385.0	29033.6
65°	3147.5	3169.6	4162.7	5401.2	8154.2	14462.9	26658.5	39722.8	41226.3	41289.7	31361.7
66°	2717.2	2612.3	3313.0	4604.0	6488.1	11511.4	24768.9	39631.9	41778.0	41709.0	31279.0
67.5°	2066.1	2159.9	2645.4	3539.2	4808.1	8184.5	20449.0	37869.2	41358.7	41143.5	30007.3
70°	1478.5	1517.2	1884.1	2524.1	3274.3	4490.9	13067.2	31452.8	37590.5	37300.9	26142.6
72.5°	954.5	995.8	1335.1	1826.1	2366.9	2452.4	7315.6	22724.8	28981.2	28939.8	19687.7
75°	681.4	720.0	882.8	1307.5	1779.3	1517.2	3522.6	15315.4	18424.2	18300.1	12178.9
77.5°	493.8	513.1	590.3	855.1	1271.7	1086.9	1633.0	8179.1	9172.1	9605.2	5381.9
80°	284.2	300.7	411.0	521.4	860.7	742.0	780.7	3282.6	3384.8	3222.0	1682.7
82.5°	140.7	160.0	245.5	355.9	537.9	499.3	358.6	987.5	1042.7	1015.2	424.8
85°	33.1	41.3	138.0	234.5	262.1	223.5	173.8	289.6	358.6	350.3	162.8
87.5°	2.7	5.5	49.6	41.3	44.2	74.5	60.7	74.5	115.9	107.6	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647180
 CATALOG NUMBER: GALN-SA9C-835-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9	4079.9
2.5°	4115.8	4063.3	3911.6	3762.6	3638.5	3508.9	3390.2	3321.3	3293.7	3263.3	3277.2
5°	4173.6	4046.8	3740.5	3475.7	3216.5	2995.8	2819.2	2706.1	2650.9	2642.7	2628.8
7.5°	4250.9	4033.0	3558.5	3144.8	2805.4	2559.9	2358.6	2195.8	2146.1	2102.0	2066.1
10°	4344.7	4008.2	3332.3	2797.2	2435.8	2126.9	1862.0	1668.9	1569.6	1542.0	1561.3
12.5°	4444.0	3961.3	3095.0	2477.2	2060.6	1666.1	1420.7	1324.1	1296.5	1285.5	1288.3
15°	4543.3	3903.3	2846.8	2168.2	1641.3	1329.6	1216.5	1191.6	1180.7	1175.1	1169.6
17.5°	4634.3	3809.5	2568.2	1867.5	1329.6	1136.5	1095.1	1073.1	1051.0	1042.7	1028.9
20°	4741.9	3701.9	2317.1	1531.0	1125.5	1028.9	979.3	937.9	904.8	882.8	879.9
22.5°	4844.0	3564.1	2055.1	1268.9	1026.2	924.1	844.1	800.0	761.4	733.7	742.0
25°	4899.2	3395.7	1820.6	1106.1	935.1	819.3	731.0	675.8	634.5	620.7	617.9
27.5°	4899.2	3188.8	1591.7	1012.4	852.4	725.5	634.5	582.1	554.4	535.2	537.9
30°	4860.6	2959.9	1379.3	940.7	780.7	642.8	557.3	510.4	488.3	474.5	471.7
32.5°	4830.2	2742.0	1197.2	871.7	706.2	571.0	496.5	460.6	438.6	424.8	424.8
35°	4877.1	2554.4	1056.5	802.7	637.2	515.8	449.7	416.6	394.5	383.4	380.7
37.5°	5001.3	2383.4	948.9	728.3	573.8	468.9	416.6	378.0	355.9	342.1	336.5
40°	5307.4	2286.8	869.0	659.3	513.1	430.3	378.0	342.1	314.5	300.7	297.9
42.5°	5798.4	2289.6	791.7	595.9	466.2	397.2	344.8	303.4	273.1	259.3	256.5
45°	6537.7	2394.4	731.0	535.2	424.8	361.4	309.0	264.8	237.2	223.5	223.5
47.5°	7423.2	2598.5	678.6	482.7	386.2	328.2	273.1	228.9	201.4	190.3	190.3
50°	8383.2	2863.4	626.2	427.6	353.1	292.4	234.5	198.6	176.6	168.3	168.3
52.5°	9362.5	3183.4	573.8	383.4	317.2	253.8	201.4	176.6	157.2	151.7	148.9
55°	10647.9	3591.6	518.6	336.5	278.6	217.9	179.3	154.5	132.4	124.1	121.4
57.5°	12625.8	4206.7	457.9	295.2	228.9	182.0	154.5	129.7	104.8	91.1	88.2
60°	15011.9	4957.1	394.5	259.3	184.8	148.9	124.1	99.3	77.2	60.7	57.9
62.5°	17246.4	5434.3	333.8	217.9	146.2	113.1	88.2	74.5	55.2	38.6	35.9
65°	18233.9	5274.3	275.9	176.6	115.9	80.0	57.9	52.4	33.1	16.5	13.8
66°	17905.6	5037.1	253.8	160.0	104.8	69.0	49.6	44.2	24.8	8.3	8.3
67.5°	16937.4	4477.1	220.6	138.0	91.1	55.2	38.6	33.1	13.8	2.7	0.0
70°	14512.7	3621.9	173.8	102.1	66.2	38.6	22.1	16.5	8.3	0.0	0.0
72.5°	11147.3	2697.8	138.0	77.2	46.9	22.1	11.0	5.5	8.3	0.0	0.0
75°	6830.1	1542.0	107.6	57.9	30.4	13.8	8.3	0.0	8.3	2.7	0.0
77.5°	3031.6	692.4	71.7	38.6	22.1	11.0	5.5	0.0	5.5	2.7	0.0
80°	766.9	226.2	41.3	27.6	16.5	8.3	2.7	0.0	5.5	5.5	2.7
82.5°	209.7	82.8	30.4	22.1	13.8	8.3	2.7	0.0	5.5	5.5	5.5
85°	82.8	38.6	27.6	22.1	16.5	8.3	2.7	0.0	5.5	5.5	5.5
87.5°	38.6	27.6	27.6	24.8	19.3	8.3	2.7	0.0	5.5	2.7	5.5
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)