

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: P647051

Luminaire Tested: **GALN-SA7C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31380.3 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

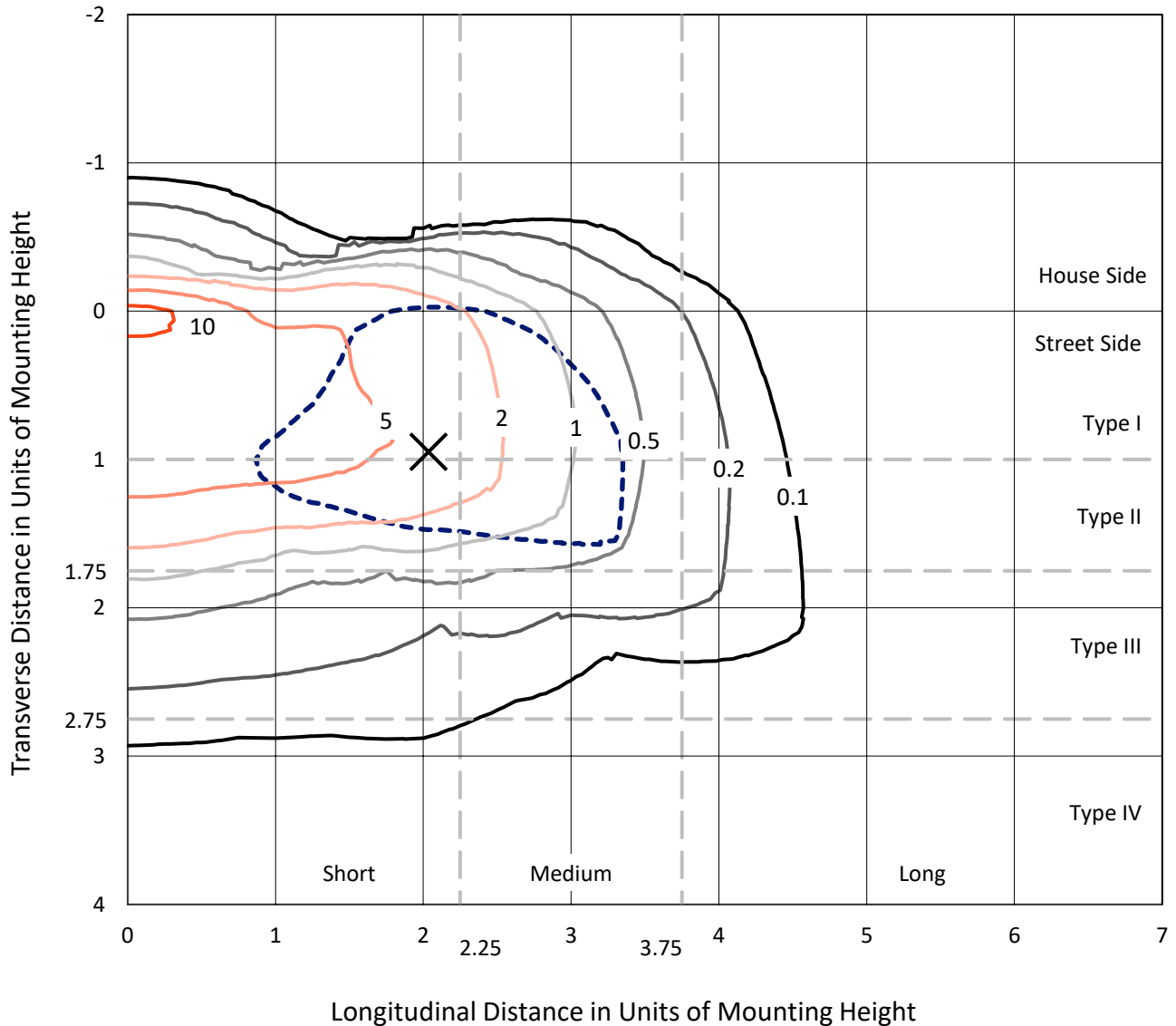
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

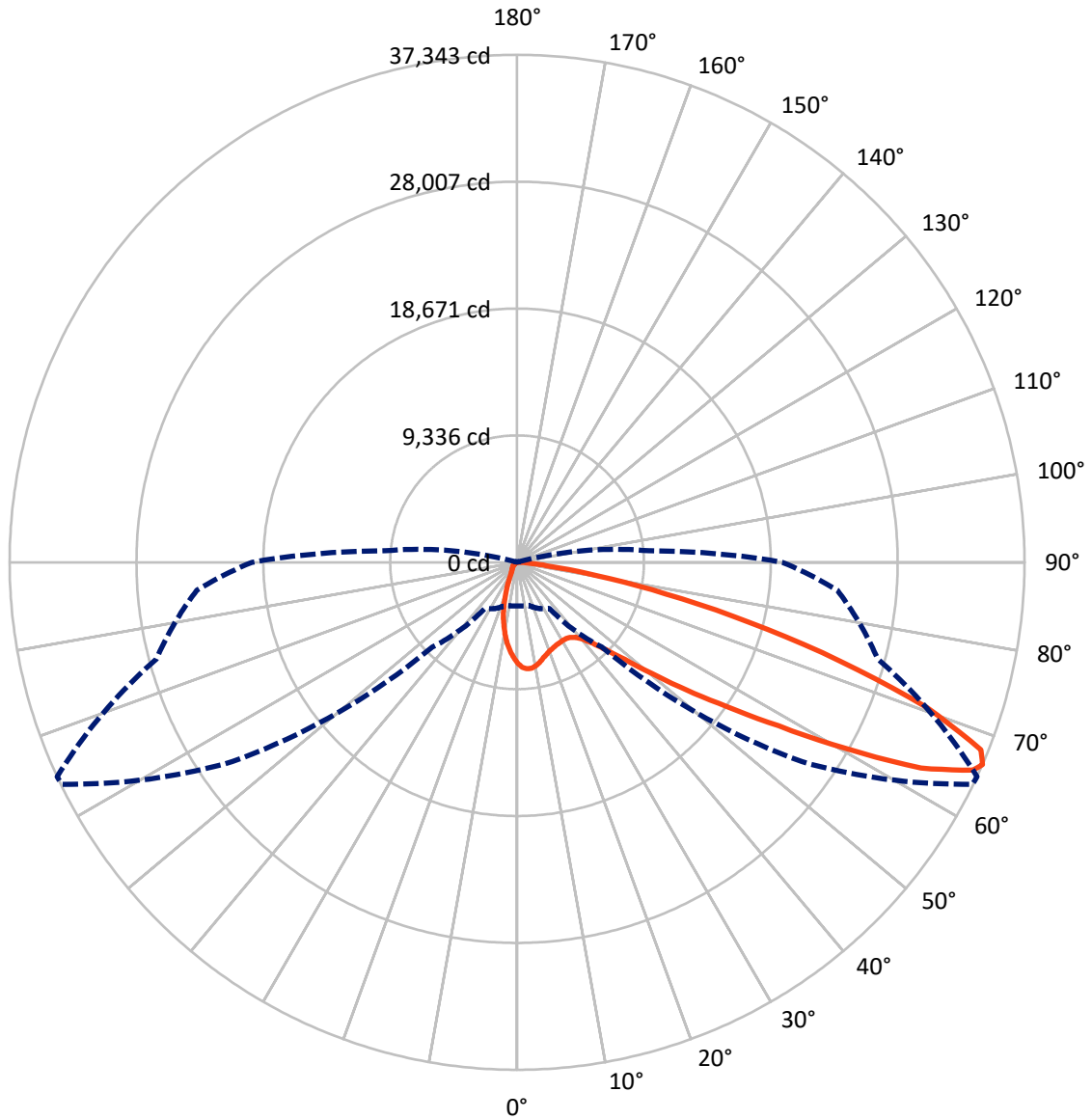
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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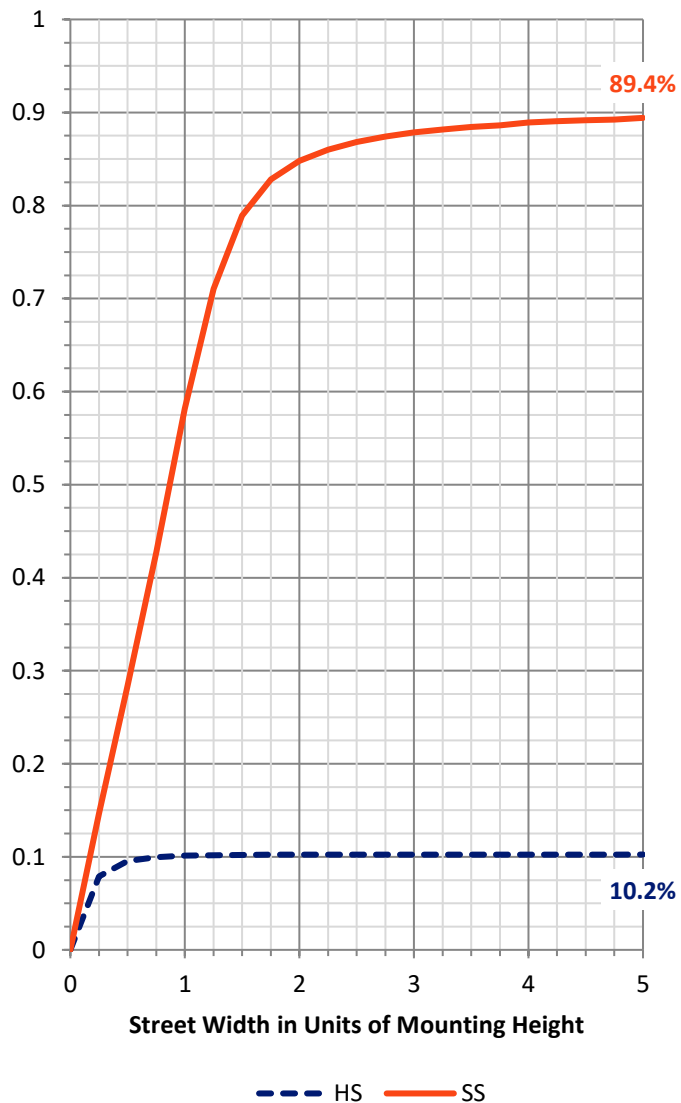
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3245.2	0.0	3245.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	28135.1	0.0	28135.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	31380.3	0.0	31380.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.6	1.9
10°-20°	1326.0	4.2
20°-30°	1899.6	6.1
30°-40°	2774.5	8.8
40°-50°	4652.3	14.8
50°-60°	7763.9	24.7
60°-70°	8241.1	26.3
70°-80°	3732.4	11.9
80°-90°	381.9	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°	31380.3	100.0
0°-180°	31380.3	100.0

Coefficient of Utilization

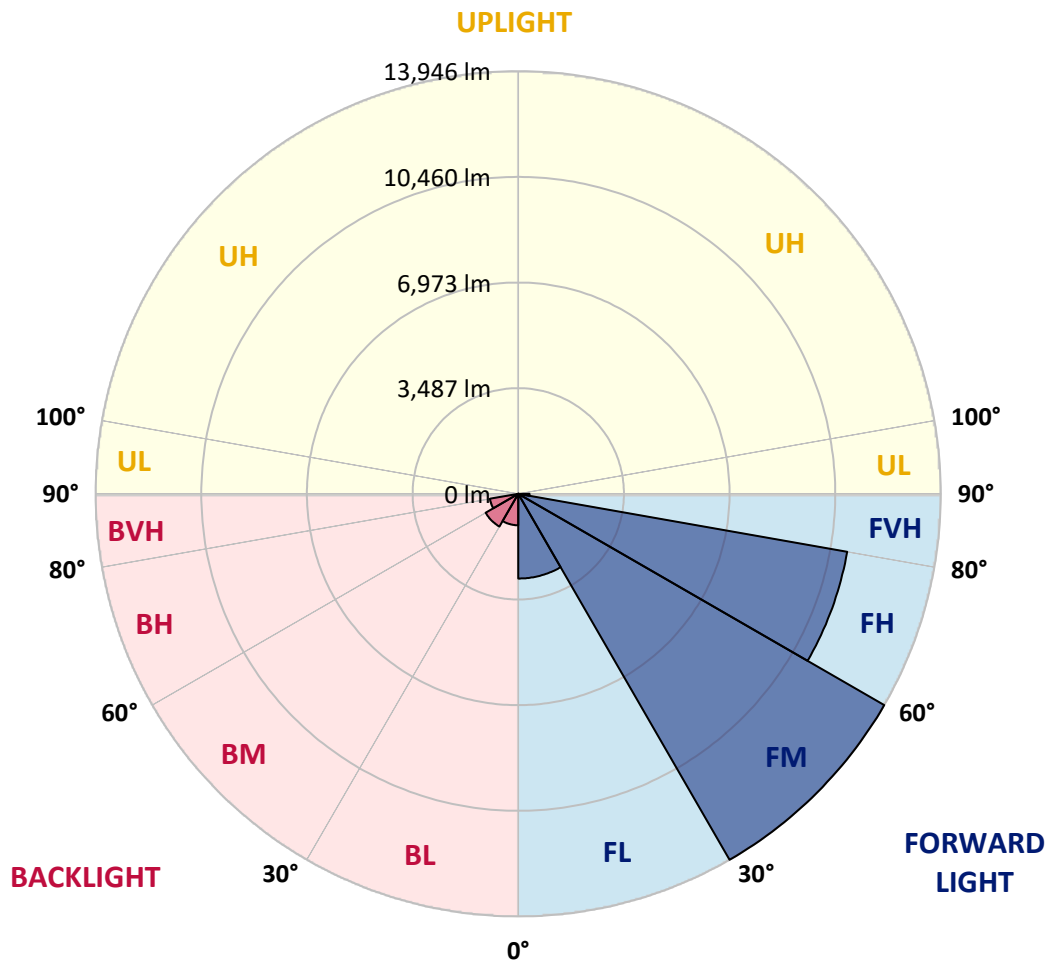


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.1	8.9			
FM (30°-60°)	13946.1	44.4			
FH (60°-80°)	11023.2	35.1			G4/12000
FVH (80°-90°)	369.7	1.2			G3/500
BL (0°-30°)	1038.1	3.3	B3/2500		
BM (30°-60°)	1244.6	4.0	B2/2500		
BH (60°-80°)	950.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	7842.0	7850.5	7861.1	7875.9	7886.5	7854.7	7810.2	7759.4	7748.7	7640.7	7509.3
5°	7422.4	7435.1	7528.3	7579.2	7693.6	7797.5	7863.2	7871.7	7867.4	7765.7	7555.9
7.5°	6824.6	6860.7	6951.9	7040.8	7254.9	7452.0	7685.1	7848.3	7859.0	7831.4	7570.7
10°	6339.3	6362.7	6409.2	6585.2	6763.2	7064.1	7390.6	7697.9	7723.3	7833.5	7558.0
12.5°	5959.9	5993.9	6051.0	6186.7	6400.8	6684.8	7055.7	7469.0	7522.0	7793.3	7522.0
15°	5695.0	5711.9	5769.1	5902.7	6110.4	6373.2	6748.4	7229.5	7276.1	7740.3	7515.6
17.5°	5569.9	5589.1	5629.3	5735.2	5907.0	6150.7	6517.4	7036.6	7095.9	7706.4	7538.9
20°	5603.9	5620.8	5623.0	5678.0	5794.6	6000.2	6347.8	6856.4	6932.8	7685.1	7577.1
22.5°	5796.7	5798.8	5773.4	5748.0	5788.2	5936.6	6244.0	6742.0	6820.4	7680.9	7621.6
25°	6085.0	6091.3	6048.9	5959.9	5879.4	5955.7	6220.6	6667.8	6737.8	7670.3	7649.1
27.5°	6483.4	6481.3	6468.6	6320.2	6091.3	6040.5	6239.7	6627.5	6686.9	7640.7	7659.7
30°	7040.8	7023.9	6996.3	6828.9	6479.2	6246.1	6320.2	6602.1	6657.2	7598.2	7632.2
32.5°	7589.8	7653.4	7649.1	7490.2	7053.6	6612.7	6487.7	6636.0	6676.3	7570.7	7591.9
35°	8229.9	8227.8	8390.9	8331.6	7820.8	7081.1	6773.8	6748.4	6780.2	7589.8	7572.9
37.5°	8823.3	8878.4	9132.8	9194.2	8727.9	7742.4	7178.6	6990.0	7000.6	7719.0	7619.5
40°	9563.0	9669.0	10048.4	10253.9	9842.8	8723.7	7776.3	7432.9	7435.1	8037.0	7795.4
42.5°	10516.8	10684.2	11038.2	11381.5	11161.0	9885.1	8672.8	8134.5	8130.3	8596.6	8198.1
45°	11676.1	11792.7	12195.4	12740.0	12600.2	11506.6	9978.4	9221.8	9166.7	9514.2	8912.3
47.5°	12676.5	12835.5	13244.5	13865.5	14501.3	13486.2	11538.4	10716.0	10680.0	10974.5	10137.3
50°	13113.1	13253.0	13683.2	14554.3	16095.2	16084.6	13861.3	12896.9	12835.5	12994.4	12032.2
52.5°	12634.1	12765.5	13200.0	14285.1	16845.5	19251.1	17226.9	15633.1	15559.0	15355.5	14295.8
55°	10993.6	11101.8	11743.9	12990.2	16557.2	21362.0	21864.3	19013.7	18725.4	17934.8	16858.1
57.5°	8753.4	8698.3	9096.7	10544.3	14865.9	22070.0	26624.7	23225.0	22710.1	20164.5	19026.4
60°	6065.9	6235.4	6396.6	7350.3	11178.0	20842.8	29585.6	28519.4	27841.2	22358.2	21103.5
62.5°	4459.3	4571.7	4677.6	5118.5	7028.1	16642.0	30109.0	33958.0	33356.0	24687.4	23085.2
65°	3526.8	3535.2	3577.7	4012.2	4631.1	10822.0	27593.2	37024.9	36870.1	26929.9	23888.5
66°	3213.1	3215.2	3280.9	3747.2	4156.2	8812.7	25577.6	37258.0	37342.8	27468.2	23653.2
67.5°	2808.3	2799.8	2895.2	3367.8	3785.3	6354.1	21970.4	36312.7	36815.0	27881.5	22807.5
70°	2176.7	2166.1	2282.7	2825.2	3486.5	4238.9	14603.1	31179.4	31989.0	27035.8	20179.4
72.5°	1449.7	1458.2	1657.5	2229.7	3327.5	3732.4	8785.2	23718.9	24863.4	22326.4	15874.8
75°	845.6	860.5	1087.3	1657.5	2888.8	3558.6	4972.3	16913.3	17644.5	15417.0	9889.4
77.5°	442.9	449.4	608.3	1093.6	2214.9	3304.3	3312.7	10805.0	11148.4	7492.3	3914.6
80°	235.3	228.9	326.4	659.1	1523.9	2901.6	2687.5	5720.4	5947.2	2225.4	989.8
82.5°	89.0	97.5	173.8	432.4	900.8	2083.4	2314.5	2528.5	2450.1	489.6	415.4
85°	17.0	21.2	74.2	256.4	453.6	871.1	1706.2	1239.9	1148.7	184.4	239.5
87.5°	2.1	4.2	21.2	61.5	65.7	294.6	504.4	343.3	296.8	67.8	99.6
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°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	7445.6	7388.5	7197.6	7009.0	6816.2	6642.4	6523.7	6330.8	6282.1	6212.2	6171.8
5°	7430.8	7297.3	6930.6	6530.1	6157.0	5754.3	5447.0	5150.3	4991.3	4910.8	4881.1
7.5°	7388.5	7176.5	6604.2	5976.9	5379.2	4777.2	4253.7	3855.3	3598.8	3423.0	3304.3
10°	7303.7	7011.1	6224.8	5362.2	4459.3	3664.5	3001.2	2496.8	2106.7	1983.8	1988.0
12.5°	7216.8	6826.7	5800.9	4679.8	3560.7	2558.2	1854.5	1456.1	1269.6	1208.1	1195.4
15°	7136.2	6650.9	5385.6	4018.5	2651.5	1657.5	1195.4	1055.5	1004.6	994.0	991.9
17.5°	7093.8	6487.7	4942.6	3261.8	1850.3	1125.4	958.0	919.9	905.0	894.4	890.2
20°	7057.8	6345.7	4518.7	2553.9	1265.3	922.0	858.4	822.4	796.9	786.3	779.9
22.5°	7032.4	6199.4	4080.0	1977.5	968.6	818.1	760.9	714.3	678.2	665.5	657.0
25°	6994.2	6038.3	3637.0	1445.5	816.0	726.9	661.2	606.2	559.5	536.2	532.0
27.5°	6939.1	5856.1	3151.7	1070.4	729.1	646.4	565.9	498.1	451.5	426.0	428.1
30°	6850.1	5665.3	2666.3	849.9	659.1	563.8	476.8	411.2	366.7	347.6	345.5
32.5°	6744.1	5434.3	2221.2	729.1	595.5	489.6	398.5	341.2	307.3	292.5	290.3
35°	6644.5	5201.2	1767.6	654.9	529.9	421.8	334.9	286.1	260.7	248.0	250.1
37.5°	6589.4	4993.4	1377.6	595.5	476.8	362.5	288.2	245.9	222.5	212.0	209.8
40°	6625.4	4823.9	1095.7	542.6	417.5	311.6	248.0	212.0	188.6	173.8	173.8
42.5°	6795.0	4749.7	883.9	491.7	362.5	269.2	216.2	182.3	156.8	142.0	144.2
45°	7312.1	4828.1	739.7	445.1	311.6	233.2	186.5	150.5	127.2	116.6	114.5
47.5°	8170.5	5122.7	640.1	396.4	267.1	199.2	156.8	125.0	101.7	93.3	91.1
50°	9671.1	5731.0	565.9	347.6	226.8	169.5	129.3	99.6	80.6	72.0	72.0
52.5°	11735.4	7057.8	512.9	292.5	190.7	144.2	105.9	80.6	63.6	57.2	55.1
55°	13893.1	8456.6	485.4	245.9	158.9	118.7	84.8	63.6	48.8	42.4	40.2
57.5°	15968.0	9554.6	453.6	199.2	127.2	91.1	65.7	48.8	33.9	29.7	27.6
60°	17958.2	10442.6	385.7	158.9	99.6	65.7	48.8	33.9	23.3	19.1	19.1
62.5°	19738.6	10959.7	303.1	127.2	76.3	46.7	31.8	25.4	17.0	12.7	12.7
65°	19946.2	10287.8	228.9	97.5	55.1	29.7	19.1	19.1	12.7	8.5	8.5
66°	19528.7	9717.7	201.4	89.0	48.8	25.4	17.0	14.8	10.6	6.3	6.3
67.5°	18596.2	8744.9	173.8	76.3	40.2	19.1	12.7	12.7	8.5	4.2	4.2
70°	16067.6	7142.6	137.7	57.2	29.7	14.8	8.5	8.5	6.3	4.2	4.2
72.5°	12246.3	5332.5	112.4	42.4	21.2	10.6	6.3	6.3	6.3	4.2	4.2
75°	7386.4	2871.9	86.9	31.8	19.1	8.5	4.2	6.3	8.5	6.3	4.2
77.5°	2721.4	977.1	67.8	25.4	14.8	8.5	4.2	4.2	8.5	6.3	6.3
80°	667.7	254.3	48.8	21.2	14.8	8.5	4.2	4.2	8.5	8.5	8.5
82.5°	309.4	108.1	33.9	19.1	14.8	8.5	4.2	4.2	6.3	8.5	8.5
85°	178.1	50.9	27.6	21.2	14.8	8.5	4.2	4.2	6.3	8.5	8.5
87.5°	72.0	25.4	25.4	21.2	17.0	10.6	4.2	4.2	4.2	6.3	6.3
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)