

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: P652551

Luminaire Tested: **GALN-SA8B-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652551
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-SA8B-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 31625.8 lumens
Efficiency: N/A
Efficacy: 97.3 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): 325
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

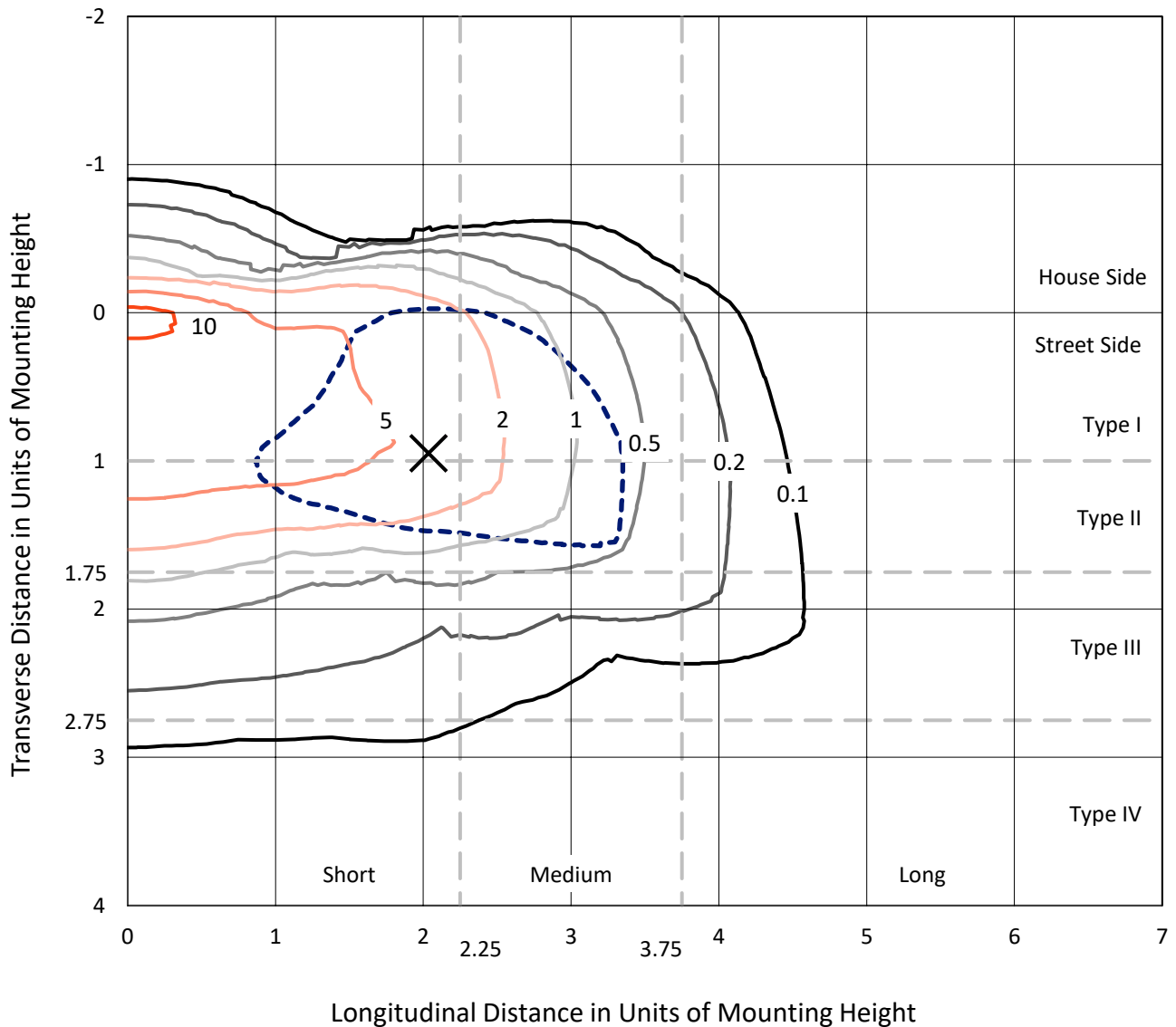




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Iso-Footcandle Lines of Horizontal Illumination

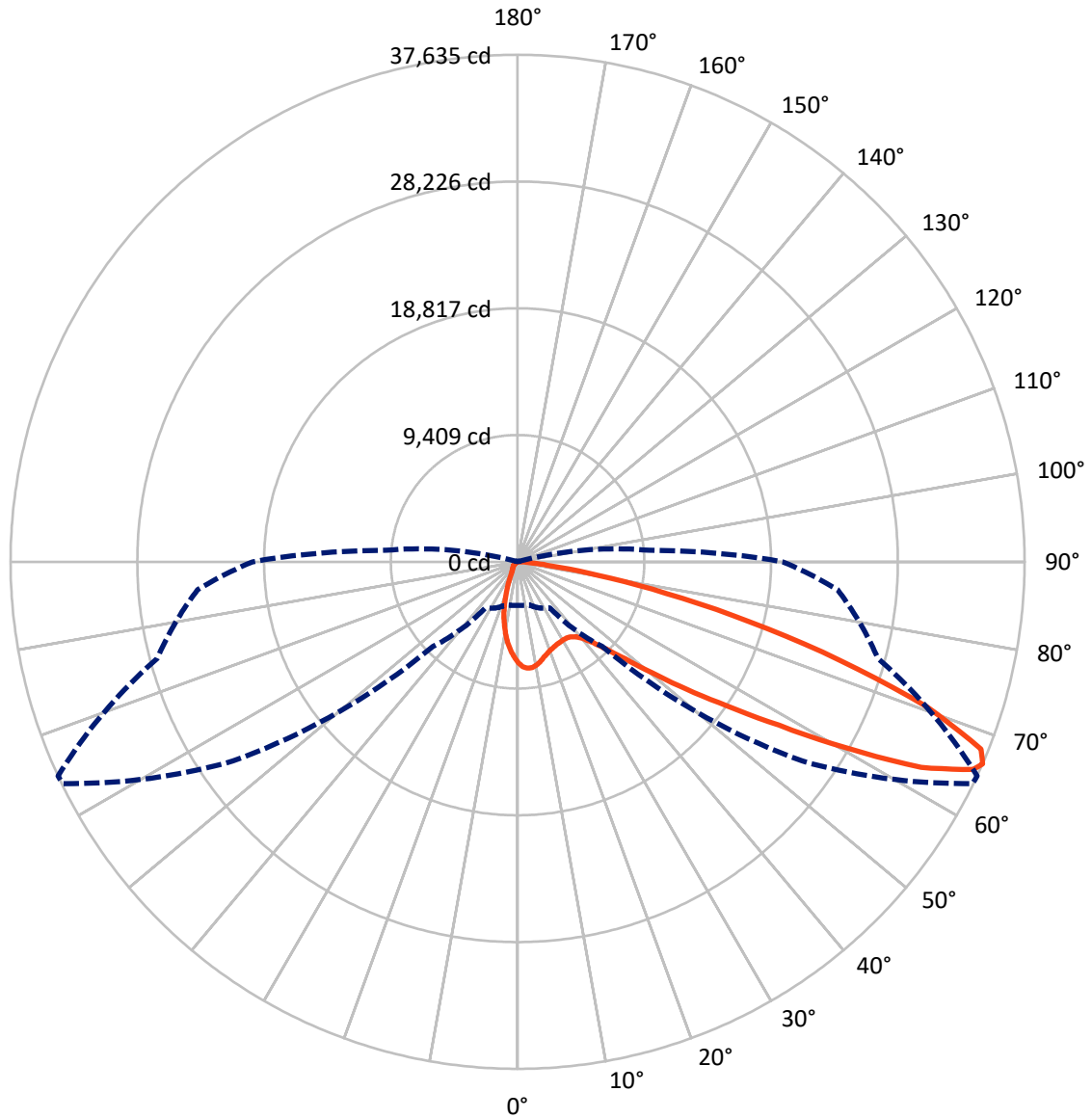
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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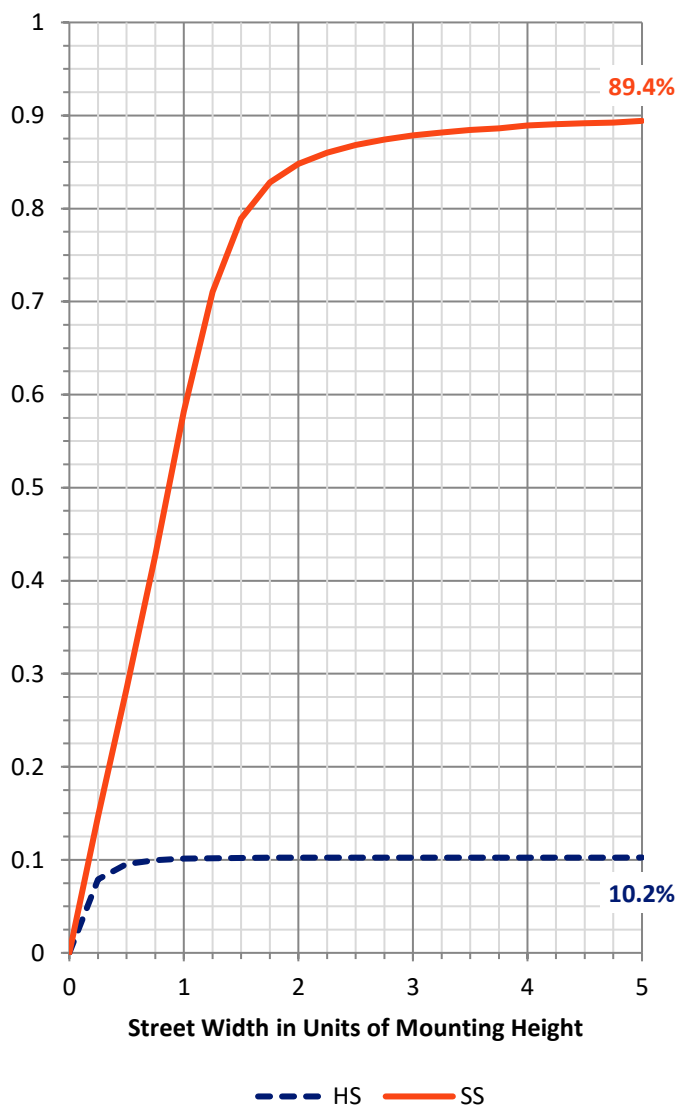
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3270.6	0.0	3270.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	28355.2	0.0	28355.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	31625.8	0.0	31625.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.4	1.9
10°-20°	1336.4	4.2
20°-30°	1914.4	6.1
30°-40°	2796.2	8.8
40°-50°	4688.7	14.8
50°-60°	7824.7	24.7
60°-70°	8305.6	26.3
70°-80°	3761.6	11.9
80°-90°	384.9	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°	31625.8	100.0
0°-180°	31625.8	100.0

Coefficient of Utilization



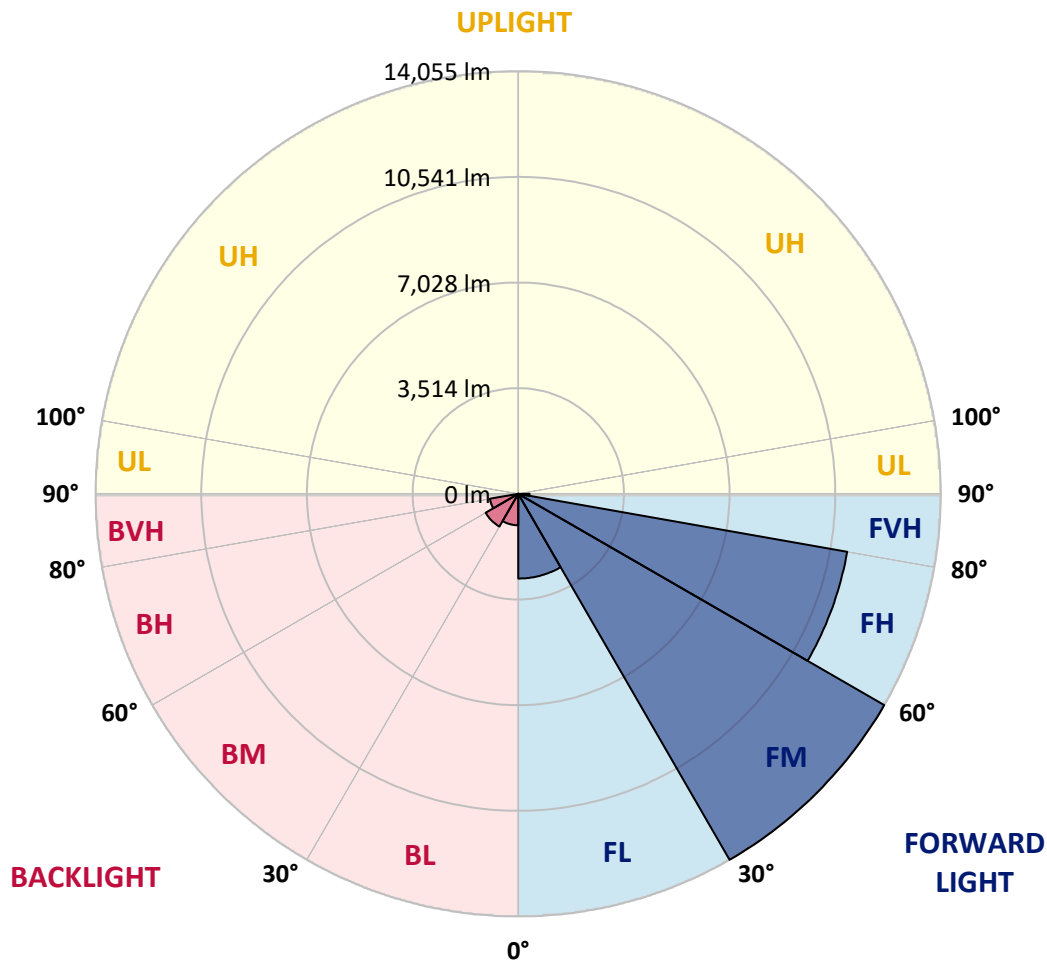
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2818.0	8.9			
FM (30°-60°)	14055.2	44.4			
FH (60°-80°)	11109.4	35.1			G4/12000
FVH (80°-90°)	372.6	1.2			G3/500
BL (0°-30°)	1046.2	3.3	B3/2500		
BM (30°-60°)	1254.3	4.0	B2/2500		
BH (60°-80°)	957.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.3	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°	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6
2.5°	7903.4	7911.9	7922.6	7937.5	7948.2	7916.2	7871.3	7820.0	7809.4	7700.4	7568.0
5°	7480.4	7493.2	7587.2	7638.5	7753.9	7858.5	7924.7	7933.2	7928.9	7826.4	7615.0
7.5°	6878.0	6914.4	7006.2	7095.9	7311.7	7510.3	7745.3	7909.8	7920.5	7892.7	7630.0
10°	6388.9	6412.4	6459.4	6636.7	6816.1	7119.4	7448.4	7758.1	7783.7	7894.8	7617.1
12.5°	6006.6	6040.7	6098.4	6235.1	6450.8	6737.1	7110.9	7527.5	7580.8	7854.3	7580.8
15°	5739.6	5756.6	5814.3	5948.9	6158.2	6423.1	6801.2	7286.0	7333.0	7800.9	7574.4
17.5°	5613.5	5632.8	5673.3	5780.1	5953.2	6198.8	6568.3	7091.6	7151.4	7766.6	7597.9
20°	5647.7	5664.8	5666.9	5722.4	5839.9	6047.1	6397.5	6910.1	6987.0	7745.3	7636.4
22.5°	5842.1	5844.2	5818.5	5793.0	5833.5	5983.0	6292.8	6794.8	6873.7	7741.0	7681.2
25°	6132.6	6139.0	6096.2	6006.6	5925.3	6002.3	6269.3	6720.0	6790.5	7730.3	7708.9
27.5°	6534.1	6532.0	6519.2	6369.6	6139.0	6087.7	6288.5	6679.4	6739.2	7700.4	7719.6
30°	7095.9	7078.9	7051.1	6882.3	6529.9	6294.9	6369.6	6653.7	6709.3	7657.7	7691.9
32.5°	7649.1	7713.2	7708.9	7548.7	7108.7	6664.4	6538.4	6688.0	6728.5	7630.0	7651.3
35°	8294.3	8292.1	8456.6	8396.8	7882.0	7136.6	6826.8	6801.2	6833.2	7649.1	7632.1
37.5°	8892.3	8947.9	9204.2	9266.1	8796.2	7803.0	7234.8	7044.6	7055.3	7779.5	7679.1
40°	9637.9	9744.7	10127.0	10334.2	9919.8	8792.0	7837.1	7491.1	7493.2	8099.8	7856.4
42.5°	10599.0	10767.8	11124.5	11470.6	11248.4	9962.5	8740.7	8198.2	8193.9	8663.8	8262.2
45°	11767.4	11884.9	12290.8	12839.7	12698.8	11596.5	10056.5	9293.9	9238.4	9588.7	8982.0
47.5°	12775.6	12935.8	13348.1	13974.0	14614.8	13591.7	11628.6	10799.9	10763.5	11060.4	10216.7
50°	13215.7	13356.7	13790.3	14668.2	16221.1	16210.4	13969.7	12997.8	12935.8	13096.1	12126.3
52.5°	12732.9	12865.4	13303.3	14396.9	16977.3	19401.7	17361.8	15755.5	15680.7	15475.7	14407.6
55°	11079.7	11188.6	11835.8	13091.8	16686.8	21529.2	22035.4	19162.4	18872.0	18075.2	16990.1
57.5°	8821.8	8766.3	9167.9	10626.8	14982.2	22242.6	26832.9	23406.7	22887.7	20322.3	19175.2
60°	6113.3	6284.2	6446.6	7407.8	11265.4	21005.8	29817.0	28742.6	28059.0	22533.1	21268.6
62.5°	4494.2	4607.4	4714.2	5158.5	7083.2	16772.2	30344.6	34223.7	33617.0	24880.6	23265.8
65°	3554.4	3562.9	3605.6	4043.5	4667.2	10906.6	27809.1	37314.5	37158.6	27140.6	24075.3
66°	3238.3	3240.4	3306.6	3776.5	4188.8	8881.6	25777.7	37549.5	37634.9	27683.1	23838.2
67.5°	2830.2	2821.7	2917.8	3394.2	3814.9	6403.9	22142.2	36596.8	37103.1	28099.7	22986.0
70°	2193.7	2183.1	2300.6	2847.4	3513.8	4272.1	14717.3	31423.3	32239.3	27247.4	20337.2
72.5°	1461.1	1469.6	1670.4	2247.2	3353.6	3761.5	8853.9	23904.4	25057.9	22501.0	15998.9
75°	852.3	867.2	1095.8	1670.4	2911.5	3586.4	5011.2	17045.6	17782.5	15537.6	9966.8
77.5°	446.4	452.9	613.0	1102.2	2232.2	3330.1	3338.6	10889.5	11235.6	7550.9	3945.3
80°	237.1	230.7	328.9	664.3	1535.8	2924.2	2708.5	5765.1	5993.7	2242.9	997.5
82.5°	89.7	98.2	175.2	435.7	907.9	2099.7	2332.6	2548.3	2469.3	493.4	418.6
85°	17.1	21.4	74.8	258.4	457.1	877.9	1719.5	1249.6	1157.7	185.9	241.4
87.5°	2.1	4.3	21.4	62.0	66.2	296.9	508.4	346.1	299.1	68.4	100.4
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°	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6
2.5°	7503.9	7446.2	7254.0	7063.9	6869.5	6694.4	6574.8	6380.3	6331.2	6260.7	6220.1
5°	7488.9	7354.4	6984.8	6581.2	6205.2	5799.4	5489.6	5190.6	5030.4	4949.2	4919.3
7.5°	7446.2	7232.6	6655.9	6023.7	5421.3	4814.6	4287.0	3885.4	3627.0	3449.7	3330.1
10°	7360.8	7066.0	6273.5	5404.2	4494.2	3693.3	3024.7	2516.3	2123.2	1999.3	2003.6
12.5°	7273.2	6880.2	5846.4	4716.4	3588.5	2578.2	1869.0	1467.5	1279.5	1217.5	1204.7
15°	7192.1	6702.9	5427.6	4049.9	2672.2	1670.4	1204.7	1063.8	1012.5	1001.8	999.7
17.5°	7149.3	6538.4	4981.2	3287.4	1864.7	1134.3	965.5	927.0	912.1	901.4	897.2
20°	7113.0	6395.3	4554.0	2574.0	1275.2	929.1	865.1	828.8	803.2	792.5	786.1
22.5°	7087.4	6248.0	4111.9	1992.9	976.1	824.5	766.8	719.8	683.6	670.7	662.2
25°	7048.9	6085.6	3665.4	1456.8	822.4	732.7	666.4	610.9	563.9	540.4	536.1
27.5°	6993.4	5901.9	3176.3	1078.7	734.8	651.5	570.3	502.0	455.0	429.3	431.5
30°	6903.7	5709.6	2687.2	856.6	664.3	568.2	480.6	414.4	369.5	350.3	348.2
32.5°	6796.9	5476.8	2238.6	734.8	600.2	493.4	401.6	343.9	309.7	294.8	292.7
35°	6696.5	5241.9	1781.5	660.0	534.0	425.0	337.5	288.4	262.7	249.9	252.0
37.5°	6641.0	5032.5	1388.4	600.2	480.6	365.2	290.5	247.8	224.3	213.6	211.4
40°	6677.3	4861.7	1104.3	546.8	420.8	314.0	249.9	213.6	190.1	175.2	175.2
42.5°	6848.2	4786.9	890.7	495.6	365.2	271.3	217.9	183.7	158.1	143.1	145.2
45°	7369.3	4865.9	745.5	448.6	314.0	235.0	188.0	151.6	128.2	117.5	115.4
47.5°	8234.5	5162.8	645.0	399.5	269.1	200.7	158.1	126.1	102.5	94.0	91.8
50°	9746.8	5775.8	570.3	350.3	228.6	170.9	130.3	100.4	81.2	72.7	72.7
52.5°	11827.2	7113.0	517.0	294.8	192.3	145.2	106.8	81.2	64.1	57.7	55.5
55°	14001.7	8522.8	489.1	247.8	160.2	119.6	85.4	64.1	49.1	42.7	40.6
57.5°	16093.0	9629.3	457.1	200.7	128.2	91.8	66.2	49.1	34.1	29.9	27.8
60°	18098.7	10524.3	388.8	160.2	100.4	66.2	49.1	34.1	23.5	19.3	19.3
62.5°	19892.9	11045.4	305.5	128.2	76.9	47.0	32.0	25.7	17.1	12.8	12.8
65°	20102.3	10368.4	230.7	98.2	55.5	29.9	19.3	19.3	12.8	8.6	8.6
66°	19681.5	9793.8	202.9	89.7	49.1	25.7	17.1	15.0	10.7	6.4	6.4
67.5°	18741.6	8813.3	175.2	76.9	40.6	19.3	12.8	12.8	8.6	4.3	4.3
70°	16193.4	7198.5	138.8	57.7	29.9	15.0	8.6	8.6	6.4	4.3	4.3
72.5°	12342.0	5374.2	113.2	42.7	21.4	10.7	6.4	6.4	6.4	4.3	4.3
75°	7444.1	2894.3	87.5	32.0	19.3	8.6	4.3	6.4	8.6	6.4	4.3
77.5°	2742.7	984.7	68.4	25.7	15.0	8.6	4.3	4.3	8.6	6.4	6.4
80°	672.9	256.3	49.1	21.4	15.0	8.6	4.3	4.3	8.6	8.6	8.6
82.5°	311.8	108.9	34.1	19.3	15.0	8.6	4.3	4.3	6.4	8.6	8.6
85°	179.5	51.3	27.8	21.4	15.0	8.6	4.3	4.3	6.4	8.6	8.6
87.5°	72.7	25.7	25.7	21.4	17.1	10.7	4.3	4.3	4.3	6.4	6.4
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)