

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: P531119

Luminaire Tested: **GALN-SA6B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14506 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

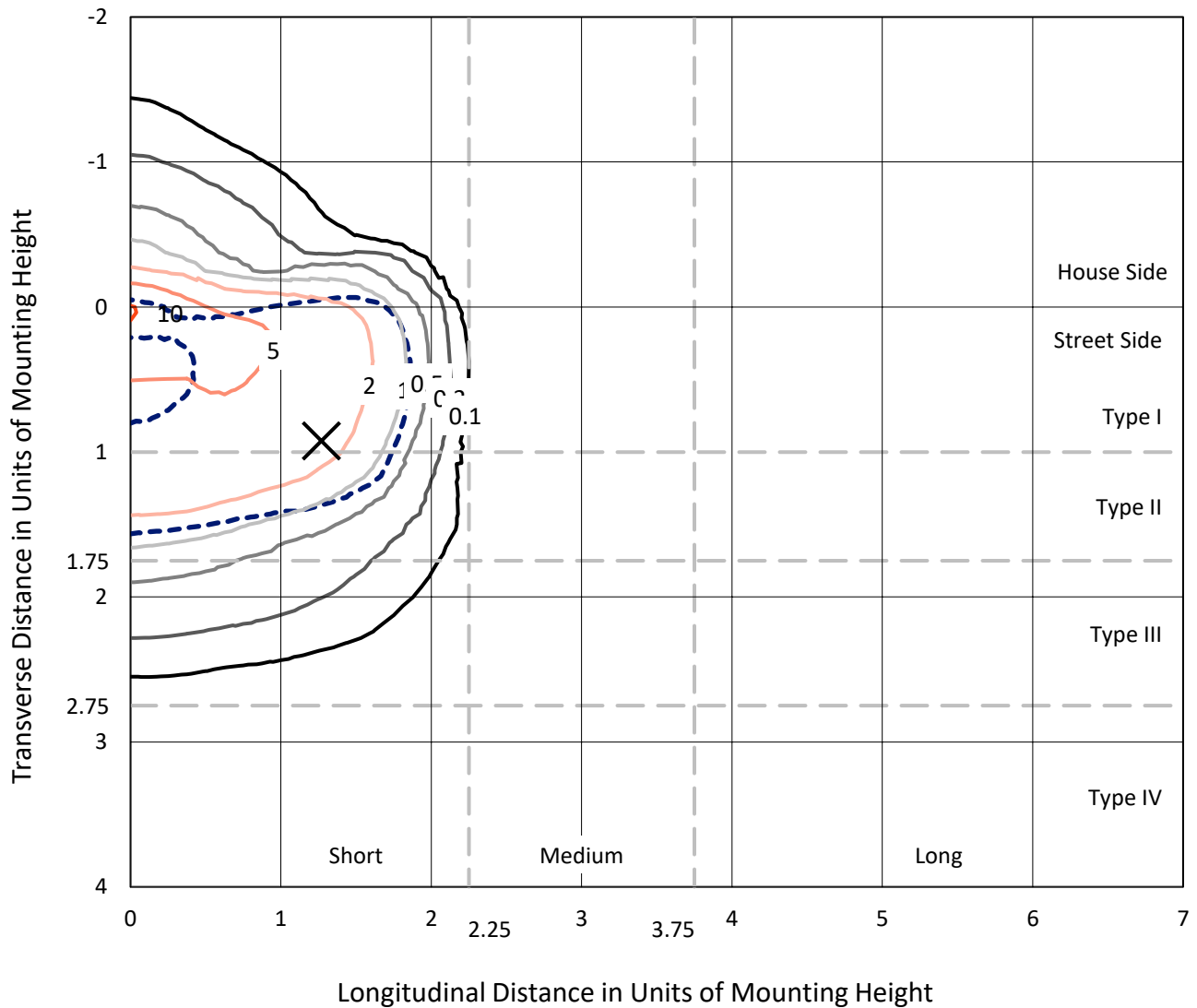
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

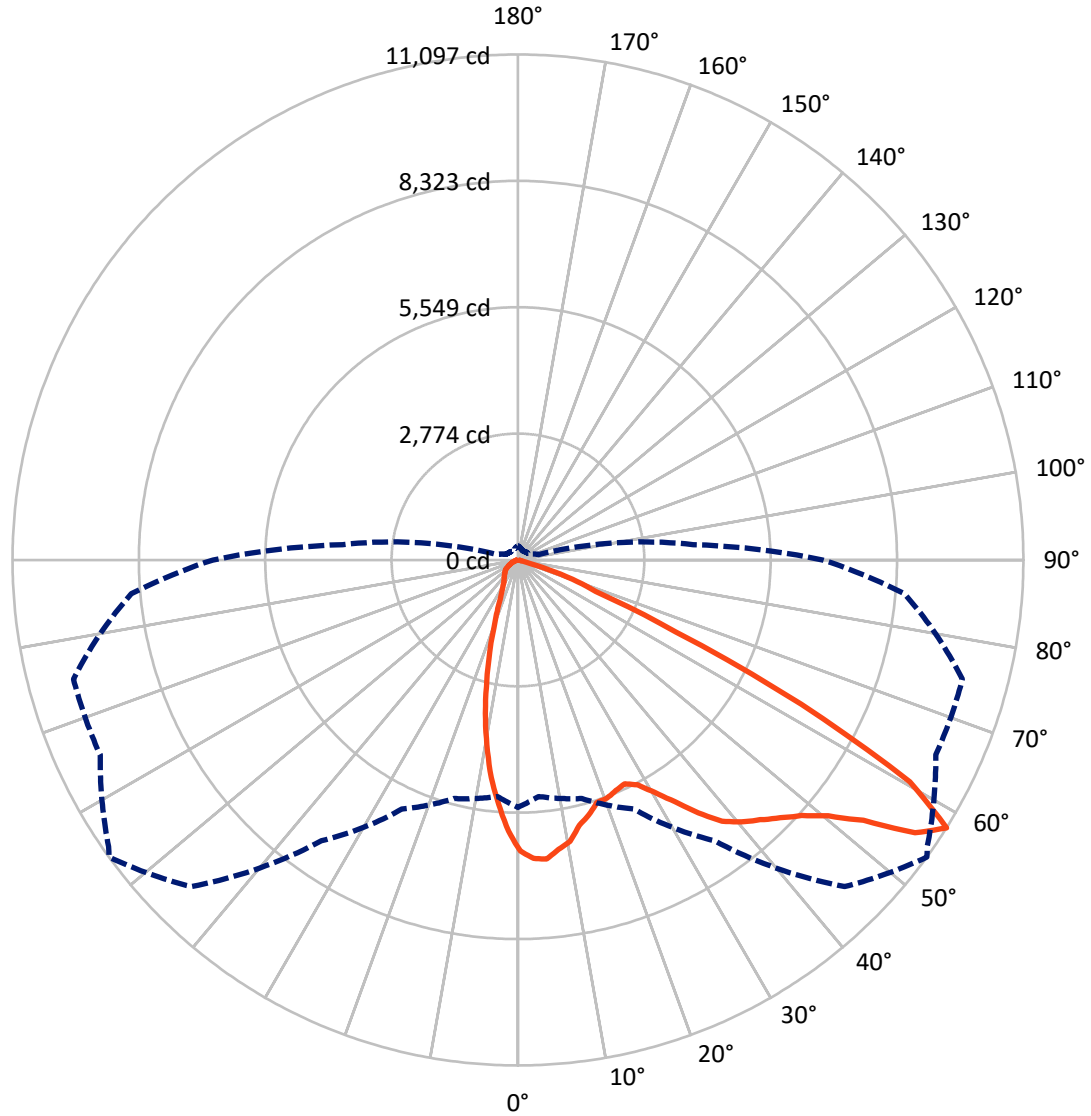
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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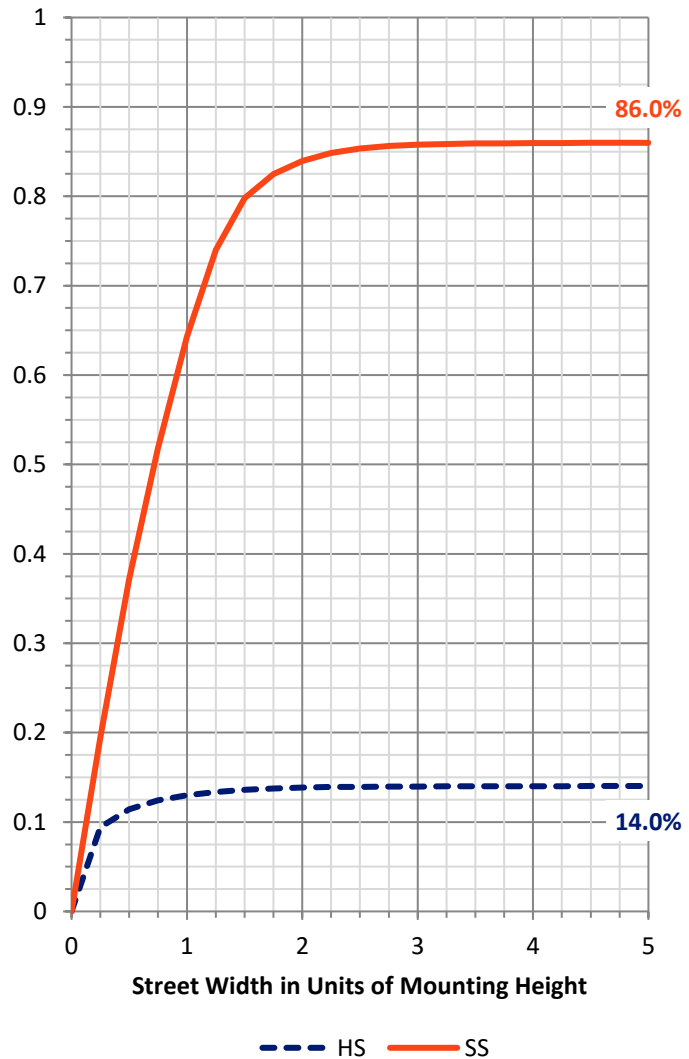
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.0	0.0	2050.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12456.1	0.0	12456.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	14506.0	0.0	14506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.7	3.7
10°-20°	1141.7	7.9
20°-30°	1512.9	10.4
30°-40°	2198.7	15.2
40°-50°	3260.4	22.5
50°-60°	4076.9	28.1
60°-70°	1608.2	11.1
70°-80°	160.1	1.1
80°-90°	12.5	0.1
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°	14506.0	100.0
0°-180°	14506.0	100.0

Coefficient of Utilization



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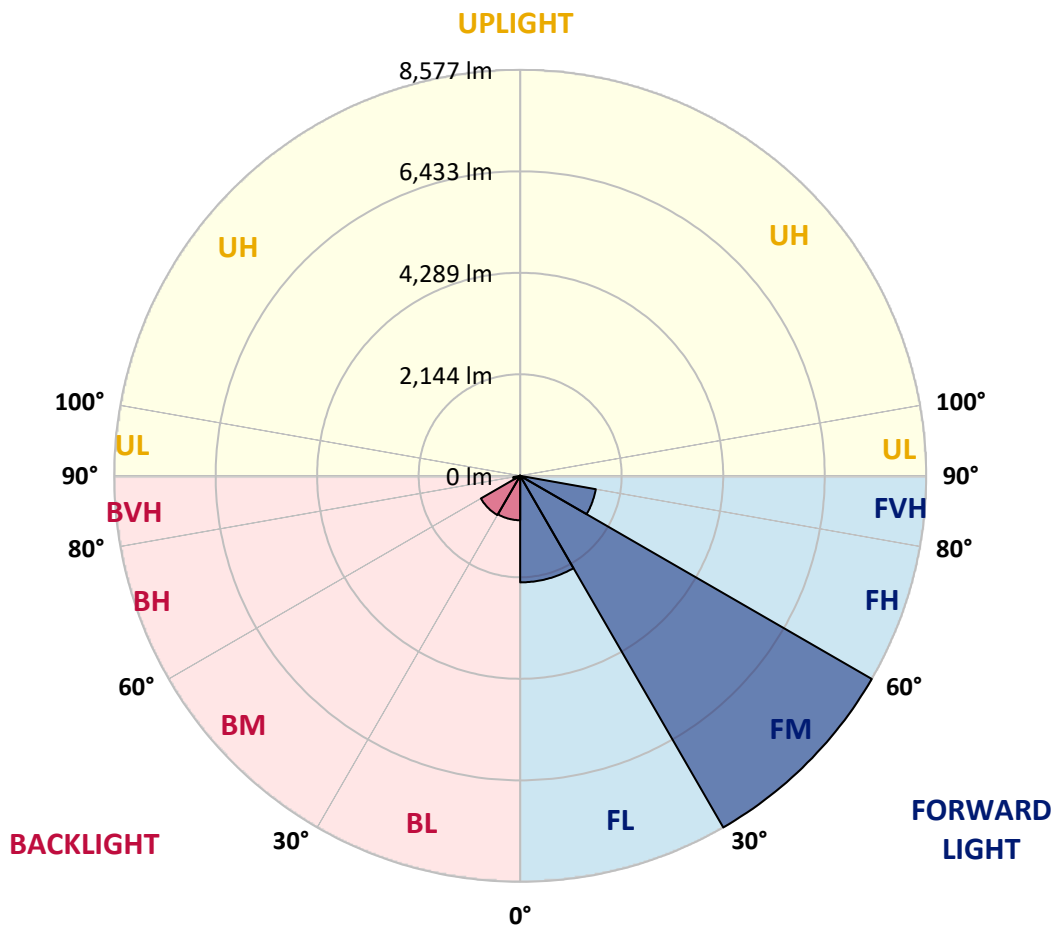
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.8	15.5			
FM (30°-60°)	8577.4	59.1			
FH (60°-80°)	1621.3	11.2			G1/1800
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	937.5	6.5	B2/1000		
BM (30°-60°)	958.6	6.6	B1/1000		
BH (60°-80°)	147.0	1.0	B1/500		G1/500
BVH (80°-90°)	6.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1
2.5°	6762.3	6692.2	6697.6	6673.3	6640.9	6665.2	6560.0	6584.3	6581.6	6438.6	6344.2
5°	6592.4	6667.9	6589.7	6654.4	6592.4	6659.8	6595.1	6546.5	6468.3	6363.1	6187.8
7.5°	6303.8	6230.9	6252.5	6333.4	6346.9	6498.0	6417.1	6479.1	6446.7	6239.0	5999.0
10°	5723.8	5707.7	5815.5	5923.4	6055.6	6217.5	6279.5	6244.4	6220.2	6141.9	5820.9
12.5°	5278.8	5324.6	5321.9	5500.0	5723.8	5815.5	5977.4	5972.0	6106.9	5961.2	5653.7
15°	4855.3	4879.6	4992.8	5103.4	5351.6	5613.2	5812.8	5839.8	6001.7	5899.2	5524.2
17.5°	4596.3	4561.3	4650.3	4782.5	5036.0	5378.6	5599.8	5664.5	5885.7	5864.1	5375.9
20°	4340.1	4340.1	4412.9	4569.4	4801.3	5187.1	5580.9	5562.0	5885.7	5823.6	5216.7
22.5°	4253.8	4296.9	4315.8	4434.5	4709.6	5041.4	5500.0	5535.0	5931.5	5804.8	5146.6
25°	4372.4	4315.8	4321.2	4415.6	4674.6	4971.3	5440.6	5518.8	6015.2	5899.2	5090.0
27.5°	4391.3	4448.0	4464.2	4528.9	4701.5	4992.8	5589.0	5748.1	6222.9	6120.4	5106.1
30°	4555.9	4612.5	4609.8	4720.4	4839.1	5168.2	5920.7	5953.1	6651.7	6398.2	5205.9
32.5°	4755.5	4814.8	4833.7	4963.2	5057.6	5489.2	6325.4	6409.0	7064.4	6835.2	5467.6
35°	5003.6	4982.1	5068.4	5197.8	5400.2	5958.5	6819.0	6959.2	7509.5	7401.6	5737.3
37.5°	5313.8	5286.9	5370.5	5580.9	5856.0	6514.2	7274.8	7366.5	7833.2	7927.6	6236.3
40°	5532.3	5543.1	5796.7	6079.9	6371.2	7042.9	7563.4	7652.5	8059.8	8418.5	6614.0
42.5°	5896.5	5963.9	6268.7	6614.0	6918.8	7439.4	7798.1	7884.4	8165.0	8812.3	7123.8
45°	6425.2	6395.5	6732.7	7118.4	7455.6	7852.1	8075.9	8046.3	8227.0	9203.5	7444.8
47.5°	7104.9	7110.3	7334.2	7663.3	8013.9	8210.8	8386.1	8281.0	8356.5	9616.2	7873.6
50°	7568.8	7609.3	7790.0	8127.2	8302.5	8604.6	8828.5	8763.8	8739.5	9864.3	8143.4
52.5°	7687.5	7808.9	7906.0	8326.8	8736.8	9214.2	9500.2	9637.7	9206.2	9947.9	8486.0
55°	6792.0	6899.9	7242.5	7819.7	8901.3	10179.9	10573.7	10576.4	9815.8	10320.2	8726.0
57.5°	5429.8	5211.3	5421.7	6034.0	7525.7	10139.4	11097.0	10970.2	10120.6	10101.7	8518.3
60°	3754.8	3700.8	3714.3	3957.1	5208.6	8065.2	9888.6	10053.1	9319.4	8755.7	6743.4
62.5°	2975.2	2929.4	2870.0	2843.0	3234.2	5025.2	6975.4	7207.4	6516.9	5678.0	3997.5
65°	2330.5	2303.6	2311.7	2419.5	2416.9	2851.1	3814.1	3719.7	2977.9	2201.1	1257.0
67.5°	1572.6	1613.0	1645.4	1971.8	2139.0	1985.3	1842.3	1788.4	968.4	407.3	277.8
70°	884.7	890.1	925.2	1232.7	1623.8	1540.2	1270.5	1270.5	482.8	148.4	159.1
72.5°	482.8	466.6	434.3	531.4	722.9	733.7	566.4	493.6	143.0	97.1	89.0
75°	234.7	232.0	199.6	164.5	156.4	129.5	99.8	91.7	64.7	62.0	53.9
77.5°	48.6	45.9	24.3	24.3	27.0	29.7	37.8	37.8	45.9	45.9	37.8
80°	0.0	0.0	2.7	10.8	18.9	27.0	32.4	32.4	37.8	37.8	29.7
82.5°	0.0	0.0	2.7	8.1	16.2	24.3	29.7	32.4	37.8	40.5	32.4
85°	0.0	0.0	0.0	5.4	13.5	18.9	16.2	16.2	13.5	10.8	5.4
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1
2.5°	6295.7	6290.3	6166.2	6096.1	5969.3	5858.7	5769.7	5705.0	5705.0	5664.5	5626.7
5°	6117.7	6071.8	5807.5	5637.5	5397.5	5219.4	5098.0	5003.6	4855.3	4895.7	4736.6
7.5°	5896.5	5780.5	5429.8	5170.9	4839.1	4585.5	4326.6	4097.3	3876.1	3776.3	3830.3
10°	5659.1	5456.8	4984.8	4574.8	4162.1	3698.1	3396.0	3029.2	2802.6	2789.1	2729.7
12.5°	5408.2	5179.0	4604.4	4038.0	3495.8	2937.4	2476.2	2133.6	1979.9	1809.9	1842.3
15°	5219.4	4879.6	4180.9	3498.5	2778.3	2214.5	1750.6	1486.3	1340.6	1300.1	1286.6
17.5°	5014.4	4650.3	3749.4	2924.0	2179.5	1594.2	1259.7	1132.9	1076.3	1076.3	1068.2
20°	4801.3	4391.3	3320.5	2389.9	1634.6	1189.5	1008.8	968.4	965.7	963.0	963.0
22.5°	4661.1	4094.6	2932.0	1899.0	1232.7	952.2	876.6	860.5	871.3	903.6	903.6
25°	4512.7	3808.7	2503.2	1464.7	954.9	817.3	774.1	784.9	811.9	841.6	830.8
27.5°	4361.7	3622.6	2098.6	1149.1	782.2	714.8	698.6	722.9	752.6	779.5	771.5
30°	4326.6	3423.0	1715.5	871.3	671.6	623.1	633.9	655.5	685.1	695.9	706.7
32.5°	4380.5	3266.5	1405.3	714.8	585.3	571.8	571.8	582.6	601.5	625.8	617.7
35°	4534.3	3177.5	1111.3	620.4	536.8	523.3	520.6	531.4	542.2	550.3	542.2
37.5°	4769.0	3107.4	909.0	550.3	504.4	482.8	477.4	474.7	485.5	488.2	493.6
40°	5068.4	3145.1	771.5	507.1	472.0	447.8	431.6	431.6	431.6	439.7	442.4
42.5°	5392.1	3196.4	666.3	482.8	442.4	412.7	396.5	391.1	396.5	407.3	404.6
45°	5731.9	3296.2	598.8	445.1	415.4	377.6	356.1	350.7	364.1	385.7	383.0
47.5°	6050.2	3439.2	547.6	420.8	388.4	353.4	326.4	321.0	345.3	374.9	377.6
50°	6368.5	3687.3	528.7	401.9	369.5	329.1	304.8	299.4	326.4	364.1	372.2
52.5°	6735.4	3954.4	515.2	377.6	348.0	310.2	283.2	277.8	307.5	356.1	358.8
55°	6975.4	4180.9	504.4	334.5	307.5	280.5	258.9	256.3	288.6	331.8	342.6
57.5°	6694.9	3865.3	466.6	291.3	261.6	248.2	229.3	229.3	256.3	296.7	304.8
60°	5076.5	2543.6	331.8	234.7	221.2	213.1	205.0	205.0	226.6	256.3	258.9
62.5°	2972.5	1370.3	213.1	188.8	188.8	180.7	167.2	167.2	188.8	205.0	207.7
65°	882.0	439.7	172.6	161.8	159.1	145.7	132.2	129.5	145.7	153.8	151.1
67.5°	253.6	202.3	143.0	134.9	132.2	110.6	102.5	99.8	102.5	97.1	94.4
70°	151.1	137.6	110.6	113.3	99.8	80.9	72.8	70.1	64.7	56.6	51.3
72.5°	83.6	83.6	80.9	86.3	70.1	53.9	45.9	37.8	29.7	24.3	21.6
75°	51.3	53.9	56.6	59.3	45.9	35.1	29.7	18.9	10.8	5.4	5.4
77.5°	35.1	37.8	40.5	43.2	37.8	32.4	24.3	13.5	2.7	0.0	0.0
80°	27.0	29.7	35.1	37.8	40.5	43.2	32.4	13.5	2.7	0.0	0.0
82.5°	29.7	32.4	40.5	37.8	37.8	37.8	29.7	13.5	2.7	0.0	0.0
85°	5.4	8.1	13.5	13.5	18.9	24.3	18.9	5.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)