

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: P532755

Luminaire Tested: **GALN-SA8A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15845 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

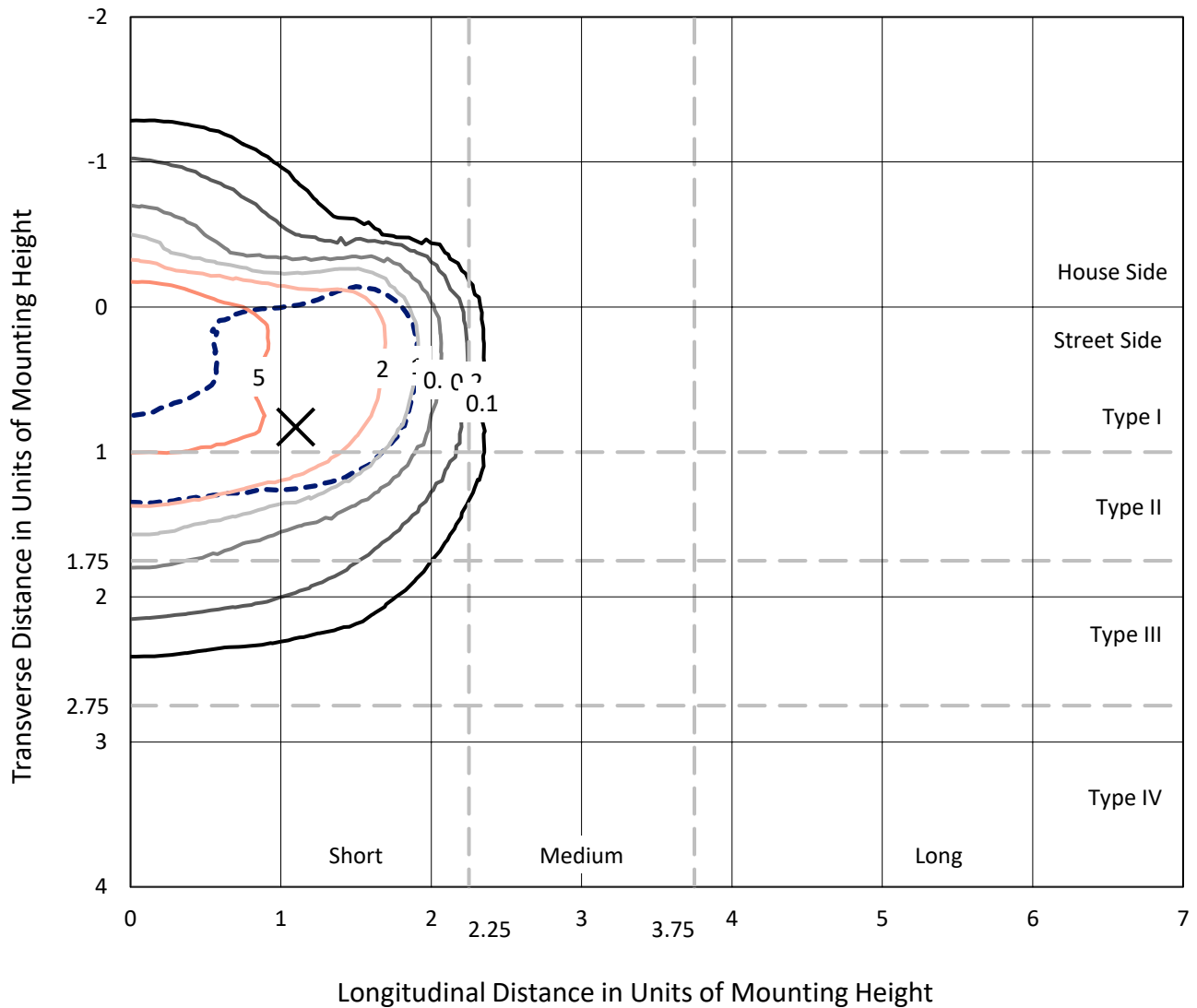
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532755
 CATALOG NUMBER: GALN-SA8A-827-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

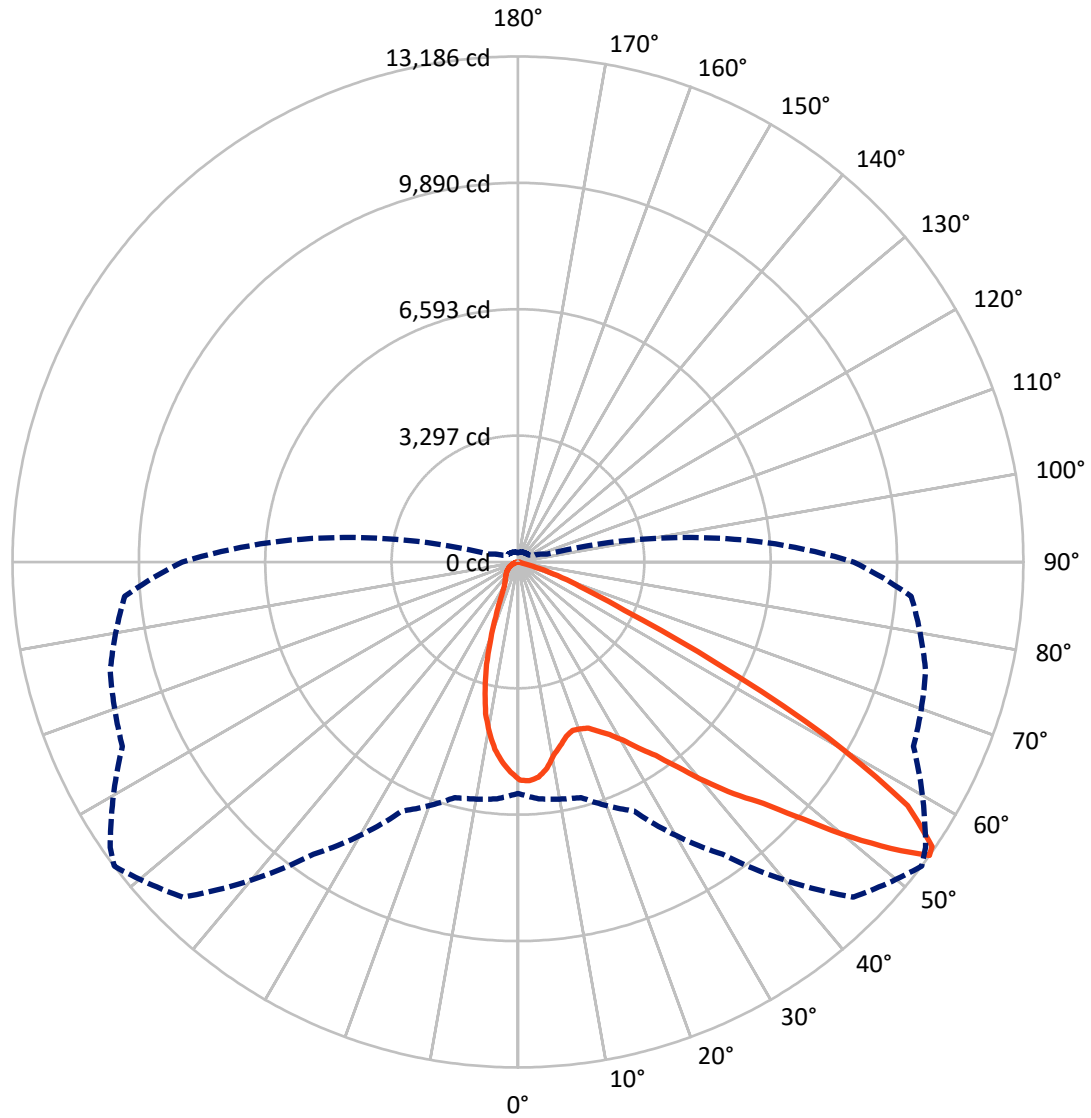
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P532755
CATALOG NUMBER: GALN-SA8A-827-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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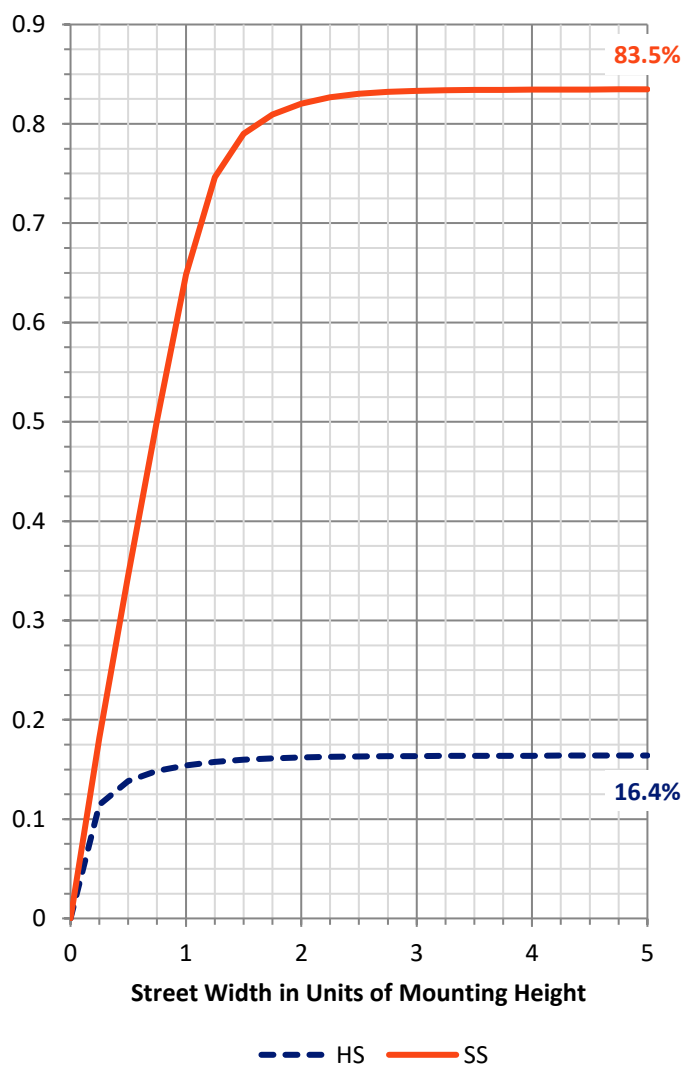
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2621.6	0.0	2621.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13223.4	0.0	13223.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	15845.0	0.0	15845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.3	3.1
10°-20°	1119.5	7.1
20°-30°	1591.1	10.0
30°-40°	2455.4	15.5
40°-50°	3849.9	24.3
50°-60°	4472.2	28.2
60°-70°	1689.9	10.7
70°-80°	160.7	1.0
80°-90°	18.1	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°	15845.0	100.0
0°-180°	15845.0	100.0

Coefficient of Utilization

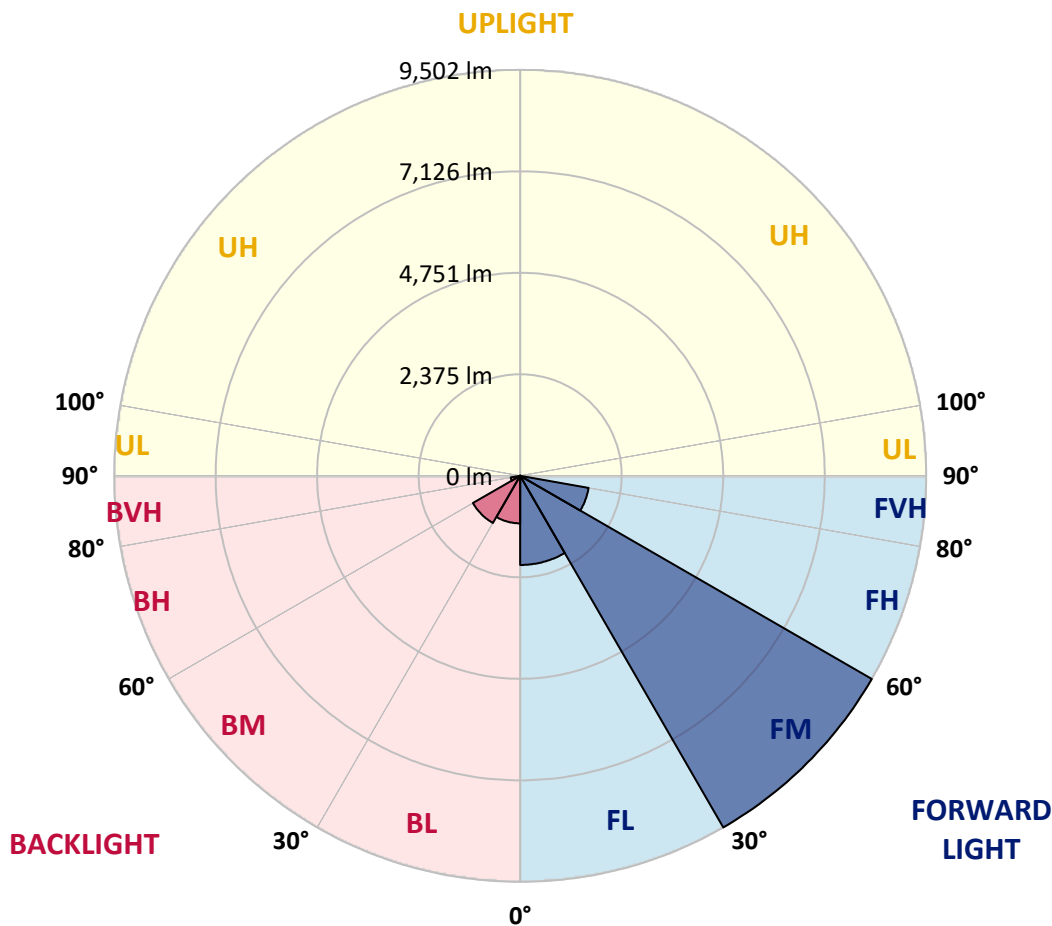


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.4	13.2			
FM (30°-60°)	9501.7	60.0			
FH (60°-80°)	1625.9	10.3			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	1112.5	7.0	B3/2500		
BM (30°-60°)	1275.7	8.1	B2/2500		
BH (60°-80°)	224.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3
2.5°	5661.7	5611.6	5661.7	5667.6	5703.1	5735.5	5714.9	5762.1	5735.5	5706.0	5697.2
5°	5204.2	5272.1	5275.0	5381.3	5357.7	5552.5	5638.1	5614.5	5759.2	5750.3	5729.6
7.5°	4793.9	4767.3	4802.7	4926.7	5083.2	5307.5	5431.5	5428.5	5635.2	5782.8	5768.0
10°	4413.1	4410.1	4483.9	4581.3	4714.2	4950.3	5121.5	5207.1	5528.9	5753.2	5785.7
12.5°	4156.3	4144.5	4224.2	4303.9	4513.5	4696.5	4914.9	4956.2	5325.2	5649.9	5703.1
15°	3988.0	4014.6	4020.5	4174.0	4306.8	4548.9	4720.1	4805.7	5230.8	5567.3	5771.0
17.5°	3958.5	3993.9	3996.9	4123.8	4265.5	4469.2	4619.7	4734.8	5151.1	5608.6	5773.9
20°	4017.5	3996.9	4014.6	4094.3	4233.0	4427.8	4646.3	4684.7	5124.5	5629.3	5806.4
22.5°	4185.8	4179.9	4135.6	4200.5	4298.0	4501.6	4708.3	4767.3	5201.2	5735.5	5832.9
25°	4371.8	4404.2	4362.9	4354.0	4421.9	4622.7	4897.2	4973.9	5458.1	5927.4	5915.6
27.5°	4720.1	4687.6	4687.6	4646.3	4628.6	4726.0	5100.9	5227.8	5744.4	6175.4	6010.1
30°	5053.6	5089.1	5062.5	5077.3	4959.2	4950.3	5390.2	5546.6	6252.1	6553.2	6210.8
32.5°	5582.0	5534.8	5579.1	5540.7	5384.3	5224.9	5782.8	5945.1	6866.1	6987.1	6511.9
35°	6021.9	6001.2	6190.1	6184.2	5930.4	5773.9	6199.0	6441.0	7294.1	7506.7	6866.1
37.5°	6647.7	6609.3	6824.8	6928.1	6700.8	6467.6	6795.3	7075.7	7692.6	7922.9	7229.2
40°	7291.2	7388.6	7677.9	7849.1	7607.0	7297.1	7524.4	7610.0	7958.3	8194.5	7477.2
42.5°	8105.9	8247.6	8542.8	8690.4	8669.7	8333.2	8265.3	8262.4	8150.2	8117.7	7660.2
45°	8888.2	8835.0	9289.6	9611.4	9871.1	9773.7	8979.7	8891.1	8454.2	8232.8	7707.4
47.5°	9230.6	9212.9	9522.8	10095.5	10981.1	11102.1	10018.7	9676.3	8967.9	8717.0	7964.2
50°	8787.8	8879.3	9186.3	9821.0	11178.8	12102.8	11294.0	10833.5	9567.1	9307.3	8572.3
52.5°	7341.4	7403.4	7695.6	8501.5	10505.8	12693.2	12516.0	12250.4	10668.2	10237.2	9632.0
54°	6036.6	6201.9	6361.3	7170.2	9307.3	12365.5	13186.1	12982.4	11385.5	11010.6	10299.2
55°	5257.3	5354.7	5469.9	6275.7	8477.8	11810.5	13109.4	13127.1	11866.6	11252.6	10747.9
57.5°	3840.4	3908.3	3790.2	4147.4	5821.1	9590.7	11990.6	12468.8	12516.0	11615.7	11022.4
60°	2934.2	2963.7	2830.9	2887.0	3619.0	6582.7	9274.9	9850.5	11291.0	10151.6	9336.8
62.5°	2275.9	2281.8	2278.9	2376.3	2494.4	3872.9	5800.5	6311.2	7784.2	7208.5	6340.7
65°	1676.7	1650.1	1697.3	1992.5	2128.3	2435.3	3055.2	3427.2	4230.1	3571.8	2553.4
67.5°	1086.3	1095.2	1142.4	1481.9	1824.3	1868.6	1880.4	1850.8	1853.8	1021.4	640.6
70°	652.4	667.1	652.4	838.3	1304.7	1340.2	1225.0	1195.5	932.8	242.1	239.1
72.5°	386.7	366.0	327.7	360.1	543.1	649.4	584.5	581.5	366.0	141.7	141.7
75°	162.4	147.6	121.0	109.2	144.6	138.7	138.7	124.0	97.4	94.5	88.6
77.5°	32.5	32.5	23.6	26.6	35.4	41.3	50.2	50.2	59.0	59.0	56.1
80°	0.0	3.0	8.9	17.7	26.6	38.4	44.3	44.3	50.2	50.2	41.3
82.5°	0.0	3.0	8.9	17.7	23.6	35.4	44.3	44.3	50.2	53.1	44.3
85°	0.0	3.0	8.9	14.8	23.6	29.5	29.5	26.6	20.7	17.7	11.8
87.5°	0.0	0.0	3.0	5.9	3.0	5.9	5.9	5.9	5.9	5.9	5.9
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°	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3	5691.3
2.5°	5717.8	5714.9	5644.0	5528.9	5502.3	5404.9	5393.1	5334.1	5366.5	5257.3	5245.5
5°	5670.6	5635.2	5549.6	5475.8	5260.3	5106.8	4985.8	4838.2	4752.6	4767.3	4711.2
7.5°	5738.5	5647.0	5496.4	5239.6	4976.9	4708.3	4563.6	4262.5	4153.3	3991.0	3967.3
10°	5667.6	5599.7	5366.5	4941.5	4578.4	4191.7	3852.2	3518.7	3264.8	3155.6	3132.0
12.5°	5661.7	5543.7	5154.0	4681.7	4156.3	3601.3	3108.3	2692.1	2441.2	2299.5	2267.1
15°	5570.2	5428.5	4914.9	4280.3	3554.1	2863.3	2326.1	1924.6	1732.8	1650.1	1673.7
17.5°	5579.1	5366.5	4675.8	3855.2	2960.8	2101.8	1588.1	1381.5	1331.3	1352.0	1352.0
20°	5570.2	5227.8	4386.5	3365.2	2267.1	1458.2	1166.0	1092.2	1124.7	1189.6	1174.9
22.5°	5523.0	5162.9	4120.8	2848.6	1667.8	1080.4	935.8	938.7	988.9	1068.6	1086.3
25°	5558.4	5018.2	3784.3	2326.1	1216.2	862.0	811.8	832.4	885.6	944.6	956.4
27.5°	5531.9	4914.9	3433.1	1806.6	888.5	740.9	738.0	761.6	785.2	829.5	829.5
30°	5561.4	4820.4	3087.7	1343.1	732.1	678.9	667.1	684.8	708.5	717.3	714.4
32.5°	5670.6	4749.6	2689.2	1003.6	646.5	619.9	619.9	619.9	616.9	628.8	631.7
35°	5909.7	4761.4	2337.9	776.3	590.4	569.7	560.9	549.1	543.1	549.1	552.0
37.5°	6169.5	4755.5	1974.8	661.2	549.1	531.3	510.7	493.0	490.0	495.9	487.1
40°	6284.6	4811.6	1638.3	593.3	510.7	490.0	457.5	442.8	445.7	451.6	445.7
42.5°	6441.0	4829.3	1419.9	540.2	475.3	442.8	422.1	404.4	401.5	410.3	407.4
45°	6438.1	4728.9	1189.6	510.7	442.8	407.4	380.8	366.0	366.0	371.9	374.9
47.5°	6627.0	4714.2	1021.4	484.1	419.2	383.7	351.3	339.5	336.5	336.5	330.6
50°	7066.8	4920.8	891.5	454.6	389.7	357.2	330.6	315.9	304.0	298.1	295.2
52.5°	7925.8	5564.3	791.1	419.2	357.2	330.6	307.0	295.2	280.4	265.7	262.7
54°	8758.3	6228.5	785.2	389.7	330.6	312.9	292.2	286.3	268.6	248.0	242.1
55°	9133.2	6615.2	805.9	366.0	312.9	301.1	283.4	277.5	259.8	236.2	233.2
57.5°	9443.1	6765.7	794.1	304.0	283.4	280.4	265.7	256.8	236.2	203.7	197.8
60°	7601.1	5115.6	569.7	268.6	259.8	253.9	242.1	236.2	209.6	174.2	171.2
62.5°	4802.7	2943.0	363.1	236.2	227.3	218.4	203.7	197.8	174.2	138.7	129.9
65°	2045.7	1219.1	245.0	209.6	194.8	180.1	168.3	159.4	138.7	103.3	100.4
67.5°	531.3	433.9	203.7	183.0	162.4	141.7	132.8	118.1	94.5	70.8	67.9
70°	239.1	218.4	171.2	153.5	129.9	109.2	97.4	82.7	62.0	47.2	44.3
72.5°	141.7	138.7	129.9	115.1	97.4	82.7	70.8	56.1	41.3	26.6	26.6
75°	88.6	85.6	88.6	79.7	67.9	62.0	53.1	38.4	23.6	11.8	11.8
77.5°	53.1	53.1	53.1	50.2	47.2	47.2	38.4	23.6	11.8	3.0	3.0
80°	41.3	41.3	44.3	41.3	41.3	41.3	32.5	17.7	5.9	0.0	0.0
82.5°	41.3	44.3	50.2	47.2	41.3	35.4	29.5	17.7	5.9	0.0	0.0
85°	11.8	8.9	14.8	20.7	29.5	26.6	20.7	14.8	5.9	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0	3.0	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)