

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: P531129

Luminaire Tested: **GALN-SA6B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14813 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

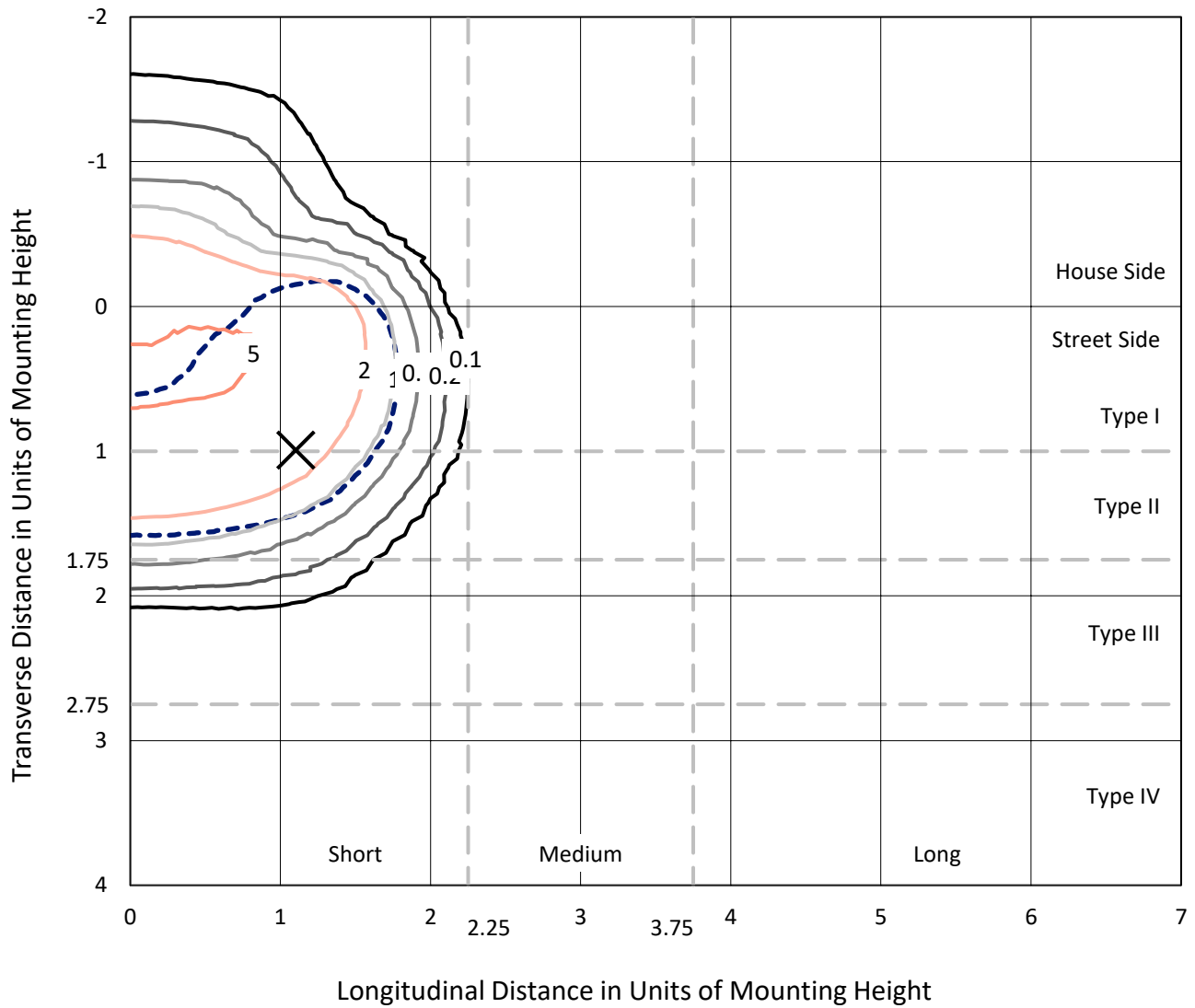
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

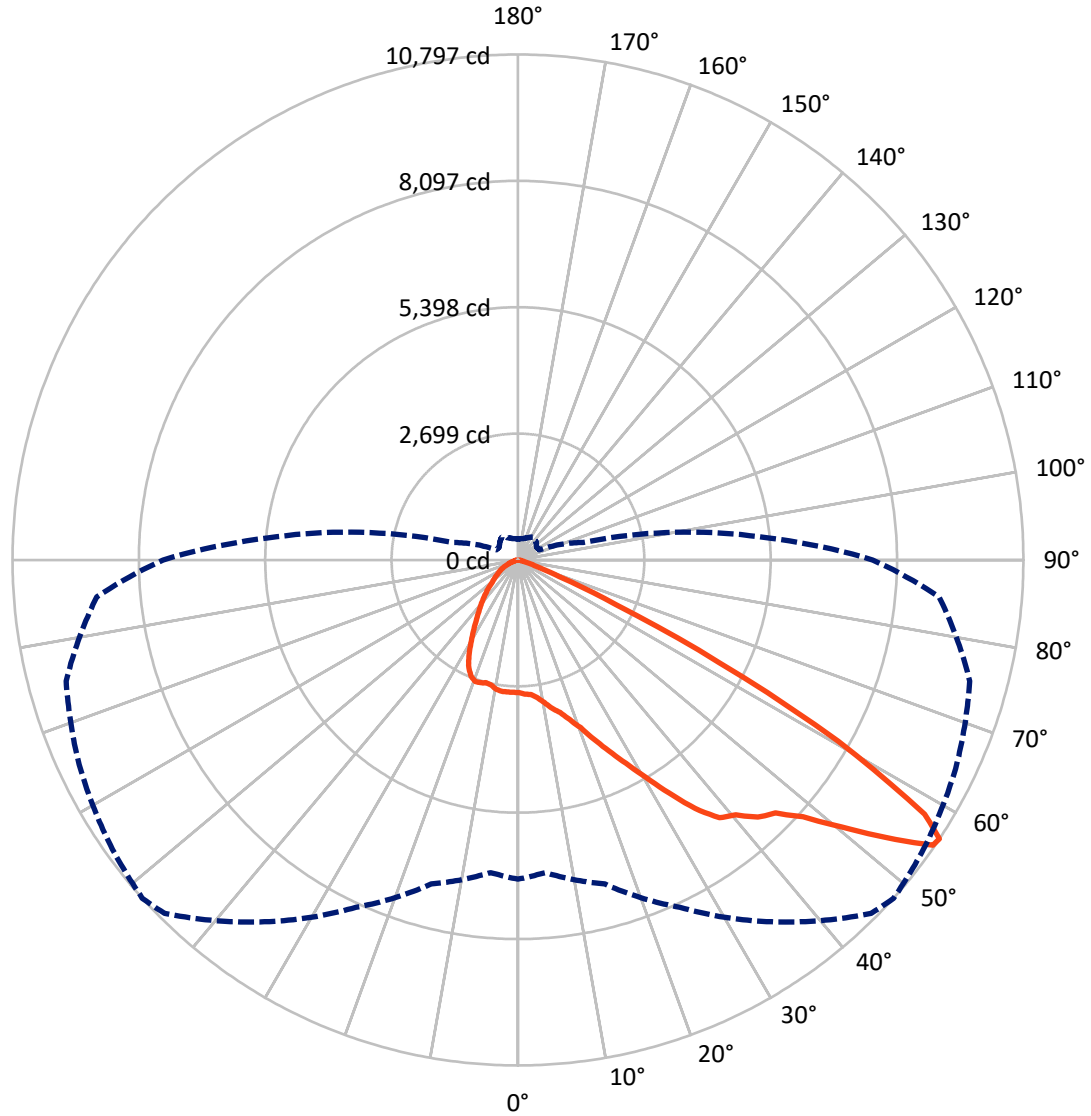
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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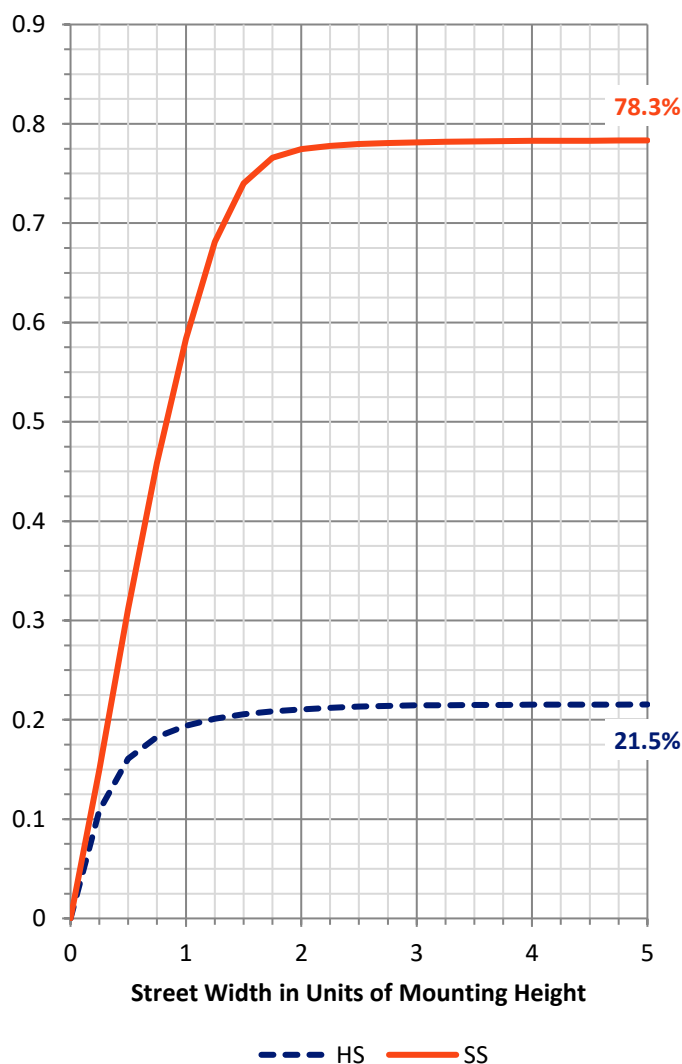
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3221.6	0.0	3221.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11591.5	0.0	11591.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	14813.0	0.0	14813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.9
10°-20°	880.8	5.9
20°-30°	1597.6	10.8
30°-40°	2509.5	16.9
40°-50°	3660.8	24.7
50°-60°	4410.6	29.8
60°-70°	1291.4	8.7
70°-80°	163.8	1.1
80°-90°	23.0	0.2
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°	14813.0	100.0
0°-180°	14813.0	100.0

Coefficient of Utilization

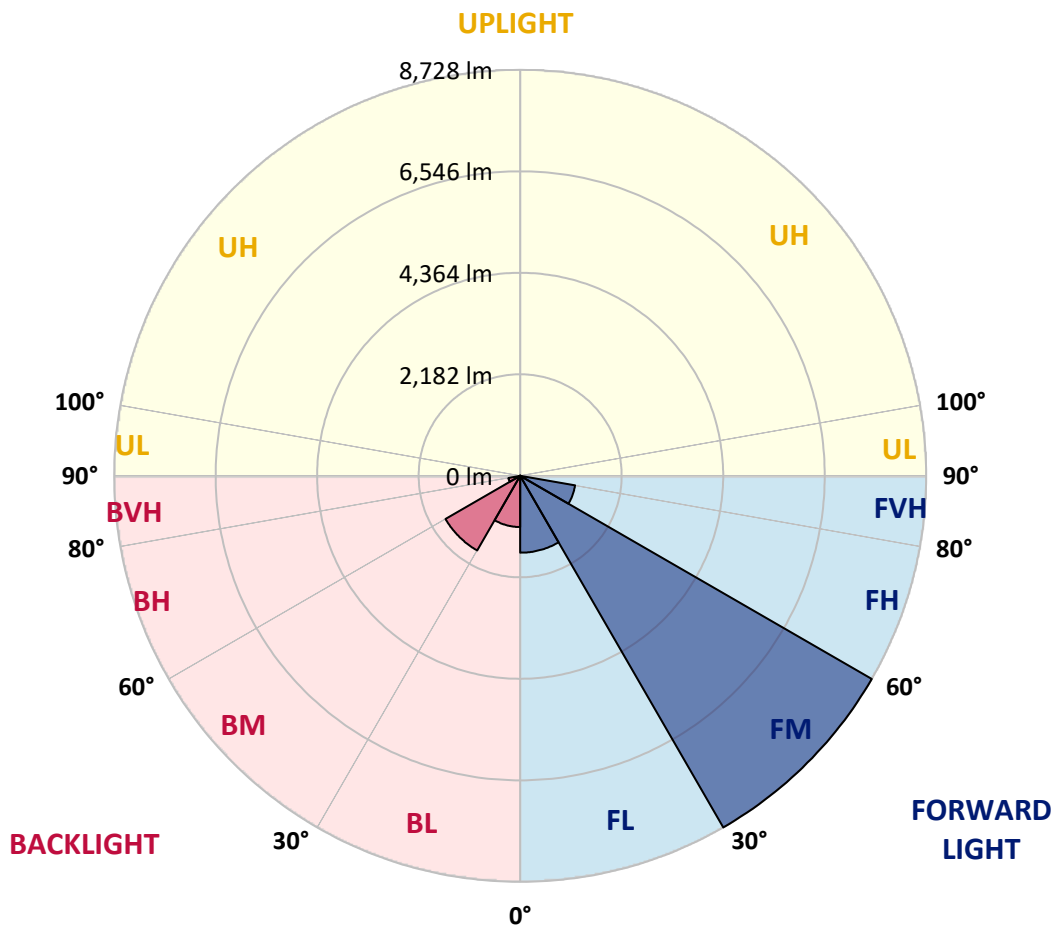


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.8	11.2			
FM (30°-60°)	8727.9	58.9			
FH (60°-80°)	1199.2	8.1			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1101.1	7.4	B3/2500		
BM (30°-60°)	1853.0	12.5	B2/2500		
BH (60°-80°)	256.0	1.7	B1/500		G1/500
BVH (80°-90°)	11.4	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3
2.5°	2880.5	2867.0	2867.0	2845.5	2869.7	2859.0	2867.0	2840.1	2867.0	2826.6	2859.0
5°	2894.0	2896.7	2885.9	2899.4	2899.4	2915.6	2888.6	2912.9	2926.4	2896.7	2883.2
7.5°	2964.1	2969.5	2966.8	2956.1	2977.6	2974.9	2972.2	2953.4	2958.8	2948.0	2931.8
10°	3101.7	3099.0	3112.5	3085.5	3069.3	3088.2	3093.6	3063.9	3042.4	3034.3	2983.0
12.5°	3301.3	3268.9	3250.0	3223.1	3231.2	3204.2	3252.7	3201.5	3190.7	3142.2	3090.9
15°	3463.1	3457.7	3460.4	3417.3	3368.7	3379.5	3379.5	3352.5	3336.3	3277.0	3204.2
17.5°	3794.9	3681.6	3705.9	3651.9	3611.5	3608.8	3584.5	3589.9	3546.7	3422.7	3312.1
20°	4053.8	4005.2	3967.5	3875.8	3813.7	3832.6	3821.8	3794.9	3781.4	3619.5	3463.1
22.5°	4285.7	4301.9	4239.9	4215.6	4129.3	4137.4	4159.0	4134.7	4032.2	3865.0	3633.0
25°	4612.1	4593.2	4509.6	4479.9	4399.0	4428.7	4512.3	4493.4	4428.7	4126.6	3765.2
27.5°	4997.8	4933.1	4949.2	4814.4	4736.2	4819.8	4919.6	5014.0	4830.6	4434.1	3921.6
30°	5270.2	5202.8	5197.4	5192.0	5173.1	5270.2	5386.2	5472.5	5324.1	4741.6	4180.6
32.5°	5405.0	5421.2	5467.1	5450.9	5615.4	5815.0	5936.4	6060.5	5874.3	5243.2	4523.1
35°	5763.8	5661.3	5763.8	5774.6	5944.5	6367.9	6521.7	6818.3	6772.5	5952.6	4941.1
37.5°	5974.1	5966.1	5979.5	6082.0	6246.6	6769.8	6988.3	7217.5	7131.2	6378.7	5461.7
40°	6322.1	6343.6	6341.0	6419.2	6599.9	7071.9	7160.9	7347.0	7355.1	6969.4	6227.7
42.5°	6880.4	6794.1	6737.4	6818.3	7071.9	7333.5	7511.5	7473.7	7740.8	7686.8	7212.1
45°	7382.0	7433.3	7349.7	7484.5	7576.2	7716.5	7711.1	7792.0	8131.8	8388.1	7953.8
47.5°	7851.3	7883.7	7924.2	8015.9	8215.5	8237.0	8191.2	8156.1	8625.4	8889.7	8528.3
50°	8131.8	8161.5	8350.3	8514.8	8887.0	8935.6	8962.6	8873.6	9191.8	9221.5	9070.4
52.5°	8056.3	8088.7	8353.0	8895.1	9488.5	9933.5	9852.6	9701.6	9682.7	9798.7	9572.1
55°	7387.4	7357.8	7721.9	8566.1	9677.3	10745.4	10756.2	10597.0	10292.2	10214.0	9496.6
56°	6818.3	6702.4	7166.3	8185.8	9434.6	10675.2	10796.6	10626.7	10340.8	9990.2	9030.0
57.5°	5585.8	5696.3	6157.5	7001.7	8595.8	10170.9	10241.0	10200.5	9984.8	9396.8	7945.7
60°	3080.1	3274.3	3681.6	4714.6	6119.8	7805.5	7862.1	8191.2	8231.6	7195.9	5467.1
62.5°	1308.1	1286.5	1710.0	2470.6	3484.7	4711.9	4817.1	5154.2	5216.2	4148.2	2743.0
65°	531.3	561.0	774.1	1243.4	1842.1	2146.9	2295.3	2405.8	2610.8	1712.7	1011.4
67.5°	350.6	347.9	455.8	709.3	992.5	957.5	957.5	1011.4	935.9	698.6	436.9
70°	250.8	258.9	326.4	490.9	617.6	458.5	439.6	420.8	477.4	461.2	353.3
72.5°	164.5	175.3	218.5	294.0	321.0	250.8	250.8	302.1	393.8	372.2	288.6
75°	107.9	110.6	134.9	169.9	159.1	129.5	142.9	202.3	285.9	275.1	205.0
77.5°	72.8	75.5	91.7	110.6	89.0	72.8	78.2	102.5	140.3	140.3	107.9
80°	27.0	29.7	37.8	35.1	40.5	51.2	56.6	70.1	83.6	83.6	72.8
82.5°	0.0	2.7	8.1	18.9	29.7	40.5	45.9	53.9	62.0	70.1	67.4
85°	0.0	2.7	8.1	13.5	21.6	24.3	27.0	18.9	16.2	16.2	13.5
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4	2.7	2.7
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°	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3	2829.3
2.5°	2829.3	2826.6	2826.6	2818.5	2834.7	2826.6	2832.0	2829.3	2794.2	2821.2	2802.3
5°	2859.0	2877.8	2848.2	2842.8	2821.2	2829.3	2829.3	2802.3	2826.6	2823.9	2818.5
7.5°	2934.5	2902.1	2869.7	2837.4	2832.0	2823.9	2794.2	2783.4	2802.3	2780.7	2813.1
10°	2966.8	2972.2	2923.7	2880.5	2840.1	2783.4	2743.0	2718.7	2689.0	2721.4	2740.3
12.5°	3115.2	3061.2	2977.6	2910.2	2772.6	2716.0	2675.6	2664.8	2716.0	2726.8	2707.9
15°	3166.4	3158.3	3050.5	2899.4	2756.5	2689.0	2697.1	2675.6	2680.9	2654.0	2659.4
17.5°	3271.6	3179.9	3053.2	2864.4	2753.8	2737.6	2689.0	2602.7	2554.2	2532.6	2551.5
20°	3387.6	3298.6	3115.2	2877.8	2778.0	2734.9	2575.8	2470.6	2370.8	2316.8	2319.5
22.5°	3490.1	3379.5	3088.2	2883.2	2799.6	2621.6	2430.1	2222.4	2098.4	2014.8	2017.5
25°	3614.2	3457.7	3099.0	2894.0	2743.0	2440.9	2165.8	1963.5	1815.2	1758.5	1777.4
27.5°	3684.3	3506.3	3158.3	2918.3	2594.6	2184.7	1888.0	1699.2	1612.9	1585.9	1583.2
30°	3894.7	3614.2	3231.2	2869.7	2346.5	1909.6	1634.5	1518.5	1434.9	1410.6	1416.0
32.5°	4207.5	3811.0	3325.6	2743.0	2093.0	1664.1	1469.9	1383.6	1305.4	1259.6	1254.2
35°	4469.1	4148.2	3425.4	2546.1	1799.0	1475.3	1354.0	1246.1	1127.4	1076.2	1062.7
37.5°	4968.1	4528.5	3403.8	2249.4	1518.5	1335.1	1229.9	1097.7	995.2	925.1	917.0
40°	5631.6	4973.5	3298.6	1888.0	1310.8	1211.0	1097.7	971.0	844.2	784.9	779.5
42.5°	6438.0	5518.3	3107.1	1521.2	1103.1	1086.9	984.5	838.8	725.5	682.4	685.1
45°	7093.5	5984.9	2912.9	1221.8	949.4	965.6	876.6	739.0	660.8	625.7	625.7
47.5°	7676.0	6300.5	2702.5	1008.7	806.4	844.2	766.0	685.1	617.6	590.7	585.3
50°	8237.0	6621.5	2492.1	817.2	687.8	725.5	717.4	652.7	598.8	566.4	569.1
52.5°	8587.7	6672.7	2225.1	668.9	601.5	644.6	671.6	612.2	552.9	534.0	528.6
55°	8158.8	6011.9	1726.2	550.2	509.8	566.4	617.6	550.2	504.4	472.0	469.3
56°	7581.6	5375.4	1443.0	507.1	482.8	544.8	598.8	525.9	474.7	455.8	442.3
57.5°	6419.2	4399.0	1065.4	450.4	447.7	507.1	569.1	501.7	442.3	426.1	426.1
60°	4002.5	2476.0	644.6	377.6	388.4	450.4	512.5	447.7	393.8	393.8	401.9
62.5°	1823.3	1030.3	391.1	321.0	334.4	388.4	455.8	404.6	374.9	404.6	410.0
65°	620.3	445.0	283.2	256.2	264.3	321.0	391.1	410.0	407.3	426.1	436.9
67.5°	347.9	285.9	237.3	213.1	207.7	237.3	321.0	410.0	393.8	385.7	391.1
70°	294.0	242.7	210.4	188.8	180.7	191.5	248.1	310.2	277.8	269.7	264.3
72.5°	237.3	202.3	183.4	169.9	145.6	124.1	113.3	118.7	132.2	140.3	153.7
75°	167.2	153.7	153.7	137.6	105.2	78.2	62.0	51.2	35.1	24.3	27.0
77.5°	94.4	94.4	97.1	83.6	67.4	51.2	37.8	27.0	13.5	5.4	2.7
80°	64.7	70.1	75.5	67.4	56.6	45.9	32.4	18.9	8.1	0.0	0.0
82.5°	64.7	72.8	78.2	67.4	56.6	43.2	32.4	18.9	8.1	2.7	0.0
85°	13.5	16.2	18.9	21.6	32.4	32.4	24.3	16.2	8.1	2.7	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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)