

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: P534407

Luminaire Tested: **GALN-SA9D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31354 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

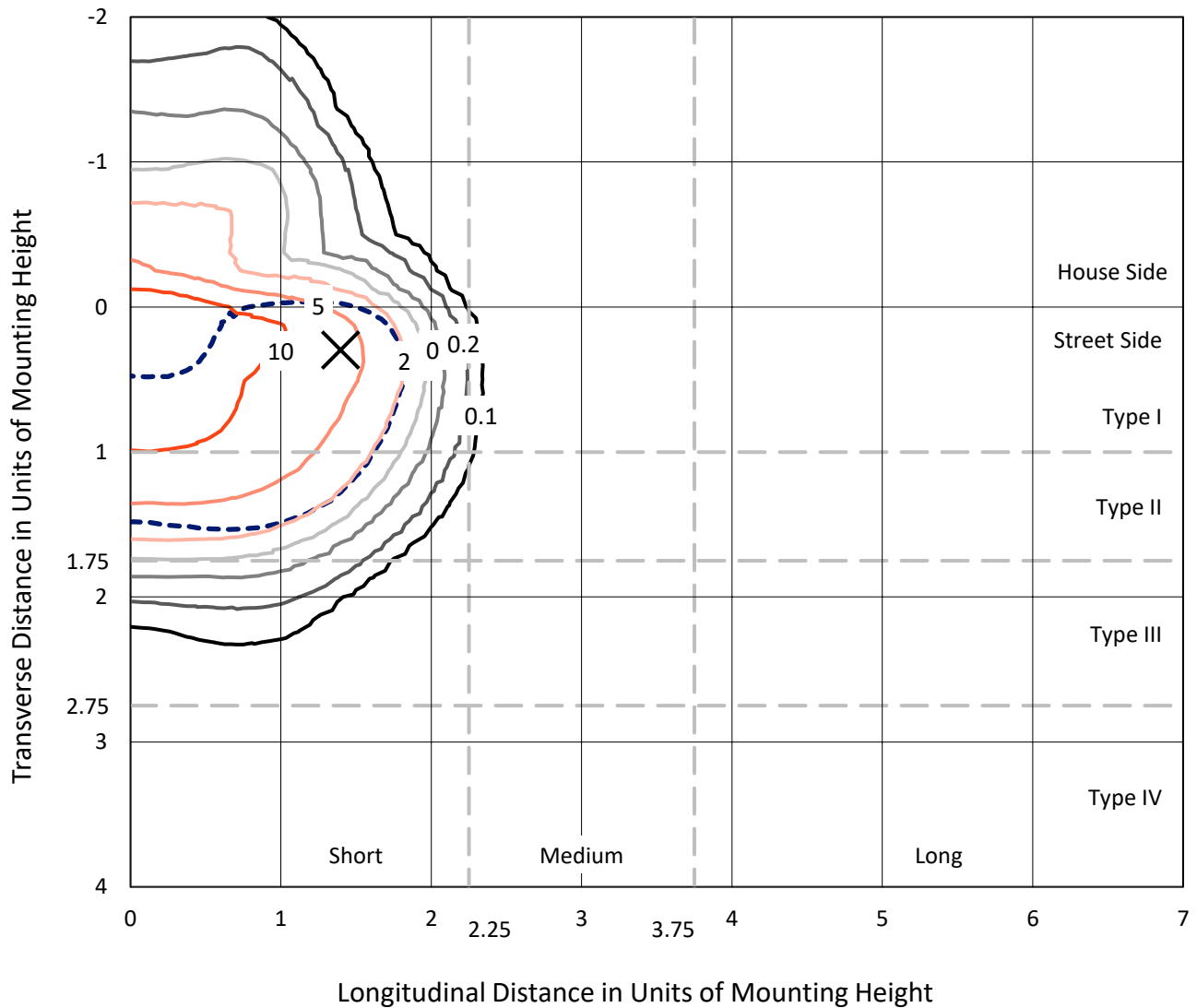
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

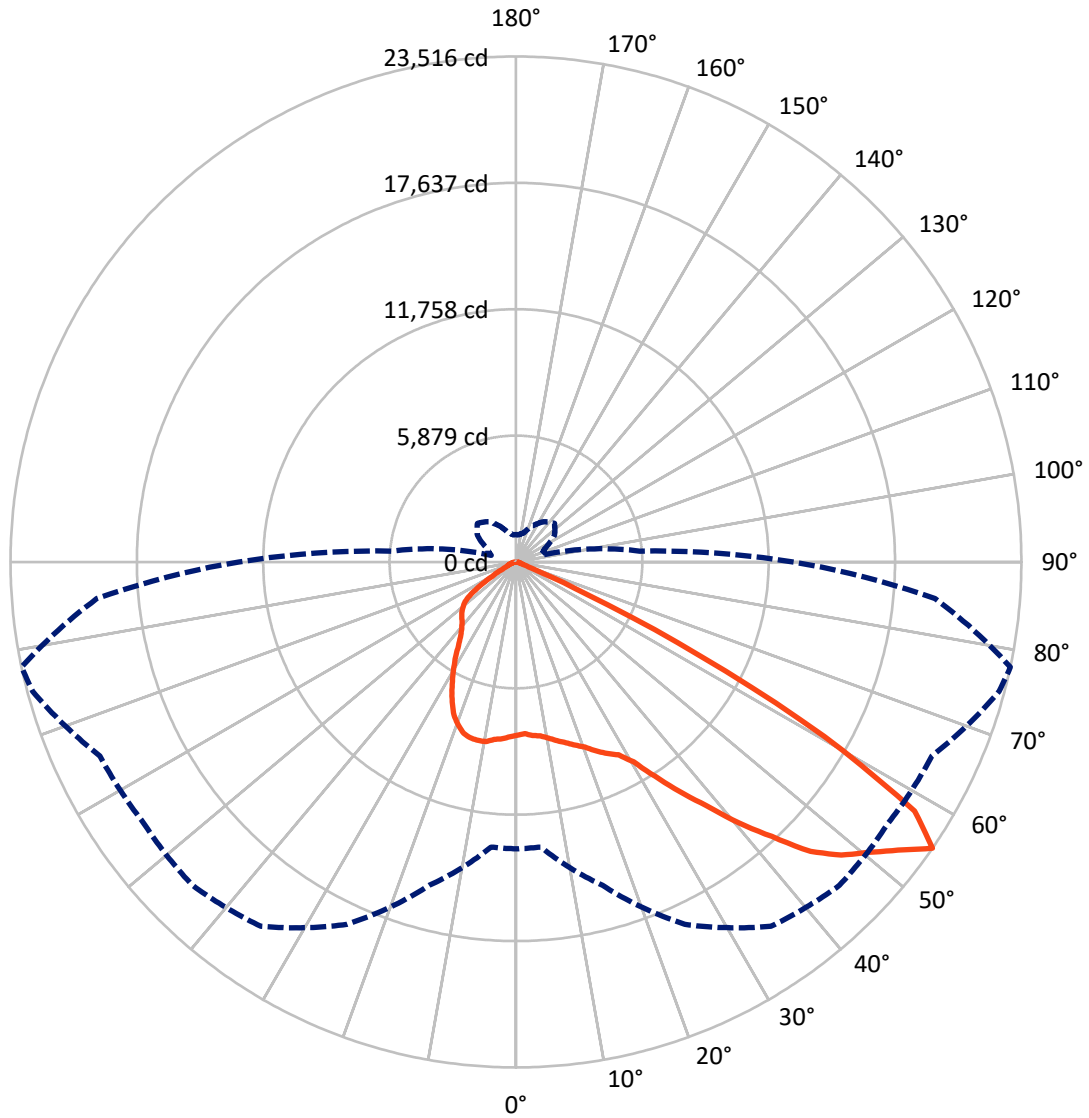
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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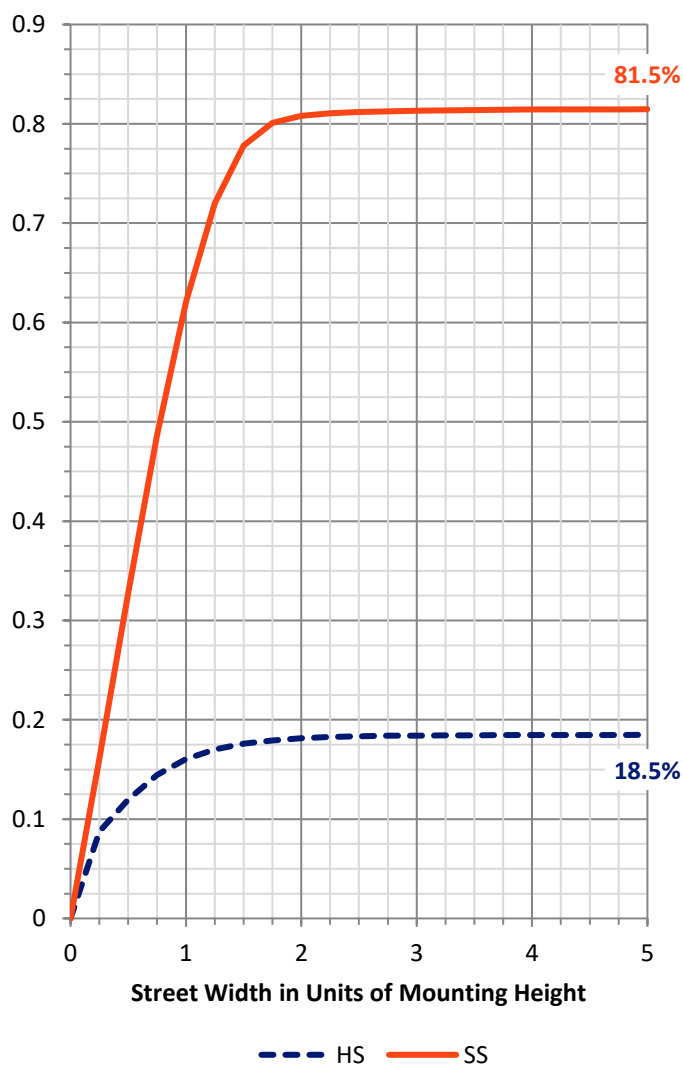
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5823.7	0.0	5823.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25530.3	0.0	25530.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	31354.0	0.0	31354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.8	2.3
10°-20°	1902.3	6.1
20°-30°	3334.4	10.6
30°-40°	5498.0	17.5
40°-50°	8000.3	25.5
50°-60°	9065.2	28.9
60°-70°	2591.9	8.3
70°-80°	201.2	0.6
80°-90°	41.9	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°	31354.0	100.0
0°-180°	31354.0	100.0

Coefficient of Utilization



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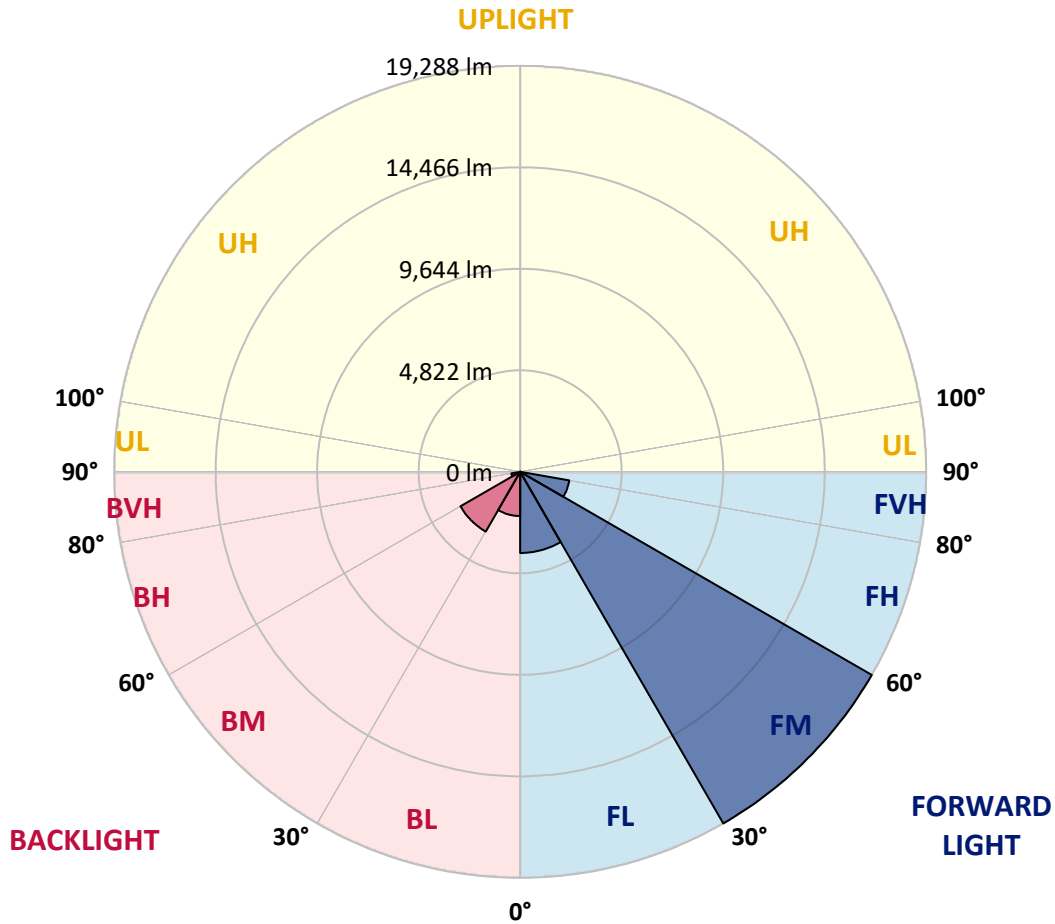
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3854.3	12.3			
FM (30°-60°)	19287.6	61.5			
FH (60°-80°)	2368.0	7.6			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	2101.2	6.7	B3/2500		
BM (30°-60°)	3275.9	10.4	B3/5000		
BH (60°-80°)	425.1	1.4	B1/500		G1/500
BVH (80°-90°)	21.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1
2.5°	7579.0	7651.9	7663.1	7752.8	7747.2	7898.6	7943.4	7949.0	8049.9	7999.5	8128.4
5°	7366.0	7326.8	7310.0	7466.9	7511.8	7646.3	7758.4	7825.7	8033.1	8106.0	8240.5
7.5°	7175.4	7175.4	7186.6	7326.8	7310.0	7483.7	7601.5	7808.9	8111.6	8173.2	8335.8
10°	6990.4	6923.2	7007.2	7153.0	7276.3	7354.8	7601.5	7797.7	8150.8	8330.2	8554.4
12.5°	6895.1	6928.8	6940.0	7046.5	7181.0	7416.5	7551.0	7876.1	8431.1	8537.6	8778.7
15°	7494.9	7427.7	7265.1	7169.8	7281.9	7394.0	7730.4	8061.1	8576.9	8728.2	8997.3
17.5°	8190.1	8134.0	7999.5	7741.6	7489.3	7696.8	7960.2	8262.9	8733.8	8958.1	9356.1
20°	9098.2	9008.5	8874.0	8369.5	8150.8	7926.6	8206.9	8565.7	8991.7	9193.5	9602.7
22.5°	10180.1	10180.1	9877.4	9266.4	8812.3	8599.3	8717.0	8924.4	9277.6	9552.3	9955.9
25°	11306.9	11273.3	10998.6	10365.1	9597.1	9344.9	9479.4	9625.1	9720.4	9871.8	10140.9
27.5°	12596.2	12400.0	12052.5	11351.7	10673.4	10185.7	10331.5	10202.5	10084.8	10163.3	10550.1
30°	13470.7	13594.1	13151.2	12478.5	11839.4	11295.7	11323.7	11211.6	10673.4	10785.5	11015.4
32.5°	14378.9	14457.3	14210.7	13840.7	13201.6	12568.2	12338.4	12243.1	11839.4	11889.9	11665.7
35°	15135.6	15287.0	15068.4	14905.8	14720.8	14210.7	13577.2	13885.6	13235.3	13112.0	12528.9
37.5°	15830.8	15785.9	16043.8	15875.6	15836.4	15477.6	14782.5	14844.1	14406.9	14378.9	13706.2
40°	16453.0	16464.2	16817.4	16895.9	16738.9	16099.8	15090.8	15578.5	15931.7	15965.3	15102.0
42.5°	16968.7	17120.1	17422.8	18056.3	17820.8	16755.7	15410.3	15942.9	17254.6	17462.0	16425.0
45°	17417.2	17725.5	18101.1	18667.3	18532.8	17686.3	16206.4	16694.1	18667.3	19211.1	17669.5
47.5°	17445.2	17848.8	18258.1	19098.9	19267.1	18185.2	17030.4	17882.5	19788.5	20377.1	18577.6
50°	17333.1	17546.1	18364.6	19278.3	19659.5	18998.0	18185.2	18880.3	20876.0	21246.0	19037.3
52.5°	16004.5	16167.1	17809.6	19446.5	20365.8	19917.4	19715.6	20270.6	21985.9	22260.6	19468.9
55°	13341.8	13313.8	15572.9	18600.0	20691.0	21279.6	21156.3	21352.5	23269.7	23516.3	19575.4
57.5°	9126.2	9636.4	11587.2	15488.8	18700.9	20960.1	21089.0	20763.9	21772.9	21868.2	17064.0
60°	4921.9	5134.9	6704.5	10337.1	14238.7	17080.9	17417.2	16828.6	16750.1	16481.0	12181.4
62.5°	1956.4	2062.9	2954.3	5118.1	7758.4	10381.9	11105.1	10864.0	10348.3	9642.0	6306.5
65°	930.6	997.8	1468.7	2393.7	3442.0	4327.7	5050.8	5275.1	3890.4	3503.6	2079.7
67.5°	633.5	683.9	1070.7	1367.8	1227.7	1283.7	1670.5	1552.8	913.7	779.2	577.4
70°	482.1	515.7	857.7	930.6	549.4	386.8	431.6	403.6	375.6	381.2	375.6
72.5°	342.0	370.0	627.8	549.4	241.0	179.4	229.8	274.7	274.7	274.7	269.1
75°	207.4	235.4	364.4	213.0	95.3	95.3	145.8	185.0	196.2	201.8	190.6
77.5°	106.5	134.5	123.3	61.7	61.7	72.9	106.5	128.9	140.1	140.1	134.5
80°	22.4	22.4	22.4	33.6	61.7	78.5	106.5	117.7	134.5	134.5	123.3
82.5°	0.0	5.6	16.8	33.6	56.1	72.9	100.9	117.7	134.5	140.1	128.9
85°	0.0	5.6	11.2	22.4	39.2	44.8	39.2	33.6	33.6	33.6	33.6
87.5°	0.0	0.0	5.6	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1	8061.1
2.5°	8139.6	8156.4	8128.4	8122.8	8100.4	8167.6	8005.1	7965.8	8066.7	7971.4	7993.9
5°	8246.1	8285.4	8234.9	8150.8	8027.5	7836.9	7674.3	7461.3	7360.4	7287.5	7276.3
7.5°	8324.6	8352.6	8302.2	8033.1	7663.1	7181.0	6822.3	6558.8	6351.4	6289.7	6188.8
10°	8644.1	8649.7	8397.5	7803.3	7080.1	6446.7	5897.3	5493.7	5286.3	5157.3	5101.3
12.5°	8857.2	8845.9	8335.8	7349.2	6385.0	5544.1	4916.3	4428.6	4238.0	4176.3	4137.1
15°	9126.2	9064.6	8190.1	6883.9	5488.1	4579.9	4013.7	3677.4	3660.6	3621.3	3660.6
17.5°	9339.3	9165.5	7977.0	6037.4	4630.4	3772.7	3402.7	3425.1	3470.0	3509.2	3514.8
20°	9686.8	9328.0	7489.3	5297.5	3834.4	3234.5	3228.9	3329.8	3442.0	3486.8	3531.7
22.5°	9950.3	9395.3	6968.0	4507.1	3184.1	3015.9	3111.2	3262.6	3346.7	3391.5	3458.8
25°	10045.6	9210.3	6272.9	3716.6	2870.2	2915.0	3060.8	3161.7	3268.2	3318.6	3290.6
27.5°	10140.9	9115.0	5443.2	3060.8	2702.0	2847.7	2971.1	3072.0	3105.6	3172.9	3217.7
30°	10370.7	8784.3	4697.7	2645.9	2617.9	2802.9	2892.6	2926.2	3015.9	3055.2	3055.2
32.5°	10555.7	8655.3	3907.2	2449.7	2606.7	2825.3	2836.5	2836.5	2847.7	2819.7	2808.5
35°	10936.9	8212.5	3200.9	2332.0	2601.1	2830.9	2859.0	2763.7	2505.8	2404.9	2376.9
37.5°	11407.8	7926.6	2679.6	2304.0	2640.3	2898.2	2943.0	2584.3	2247.9	2085.4	2057.3
40°	11979.6	7724.8	2337.6	2292.8	2730.0	3055.2	2920.6	2444.1	2006.9	1771.4	1760.2
42.5°	12646.7	7539.8	2107.8	2287.2	2842.1	3217.7	2898.2	2326.4	1760.2	1603.3	1625.7
45°	13179.2	7438.9	1950.8	2247.9	2881.4	3313.0	2915.0	2119.0	1659.3	1558.4	1569.6
47.5°	13594.1	7225.9	1821.9	2180.7	2875.8	3346.7	2763.7	2034.9	1608.9	1636.9	1664.9
50°	13605.3	6940.0	1659.3	2034.9	2791.7	3285.0	2589.9	1956.4	1597.7	1715.4	1771.4
52.5°	13453.9	6536.4	1485.5	1827.5	2595.5	3072.0	2432.9	1922.8	1547.2	1536.0	1603.3
55°	12915.7	5779.6	1194.0	1479.9	2191.9	2533.8	2292.8	1861.1	1395.8	1266.9	1278.1
57.5°	10438.0	4142.7	880.1	1059.5	1552.8	1855.5	2068.5	1833.1	1255.7	1076.3	1081.9
60°	6463.5	2348.8	644.7	723.1	958.6	1126.8	1676.1	1704.2	1121.2	908.1	896.9
62.5°	3318.6	1160.4	498.9	510.1	588.6	661.5	1149.2	1429.5	1014.6	863.3	863.3
65°	1109.9	571.8	437.3	392.4	392.4	409.2	695.1	992.2	857.7	723.1	723.1
67.5°	476.5	426.0	381.2	342.0	313.9	297.1	392.4	577.4	639.1	549.4	526.9
70°	370.0	358.8	330.7	285.9	246.7	224.2	229.8	297.1	364.4	353.2	342.0
72.5°	274.7	274.7	263.5	224.2	190.6	162.6	151.4	157.0	173.8	179.4	185.0
75°	190.6	196.2	196.2	173.8	140.1	117.7	100.9	84.1	67.3	56.1	50.5
77.5°	128.9	134.5	145.8	128.9	106.5	78.5	61.7	44.8	28.0	11.2	11.2
80°	112.1	128.9	140.1	128.9	112.1	84.1	61.7	33.6	16.8	0.0	0.0
82.5°	117.7	128.9	145.8	123.3	106.5	78.5	61.7	39.2	16.8	5.6	0.0
85°	28.0	28.0	33.6	39.2	50.5	56.1	44.8	28.0	16.8	5.6	0.0
87.5°	11.2	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	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)