

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: P647578

Luminaire Tested: **GALN-SA7D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41838 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

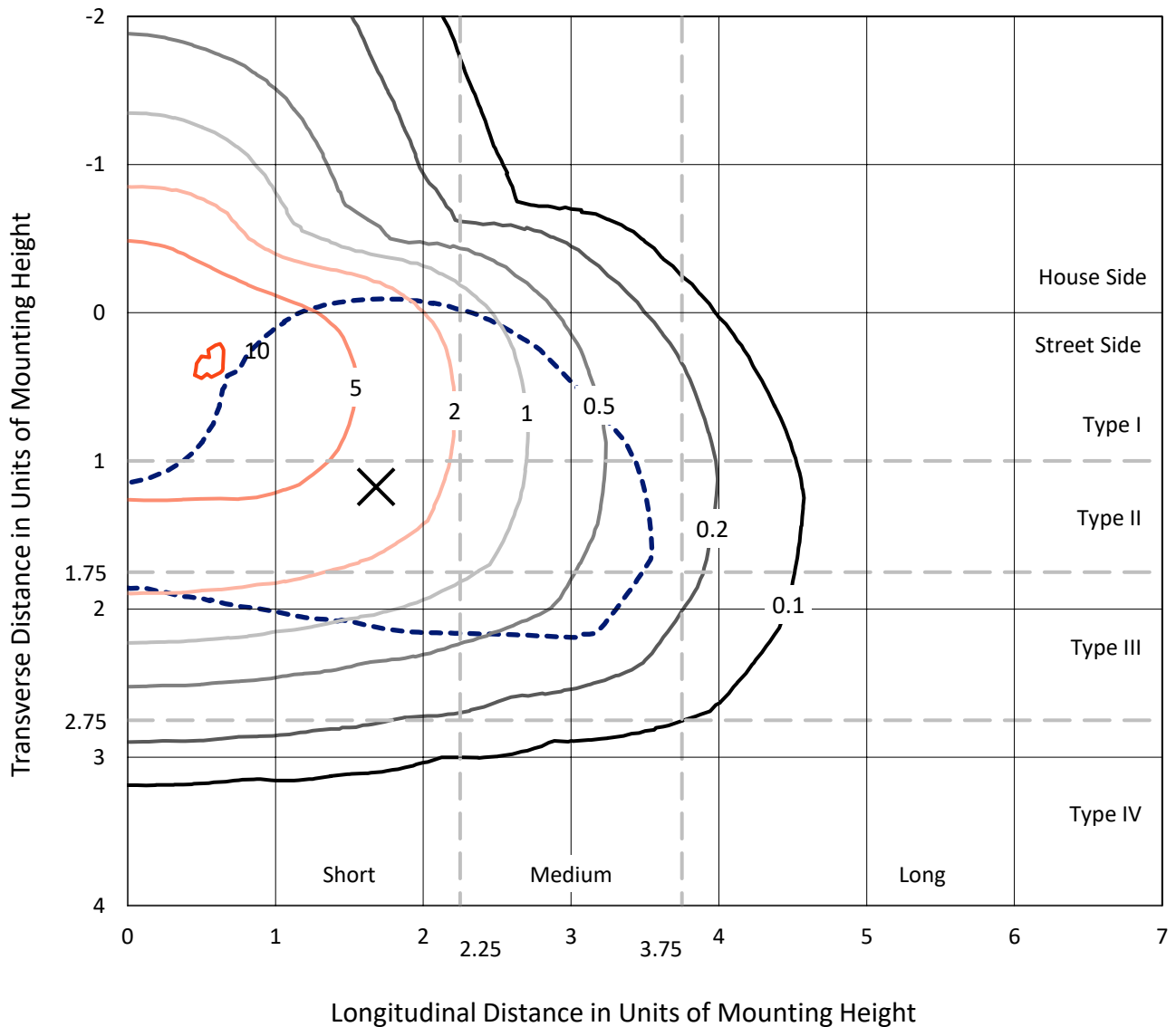
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

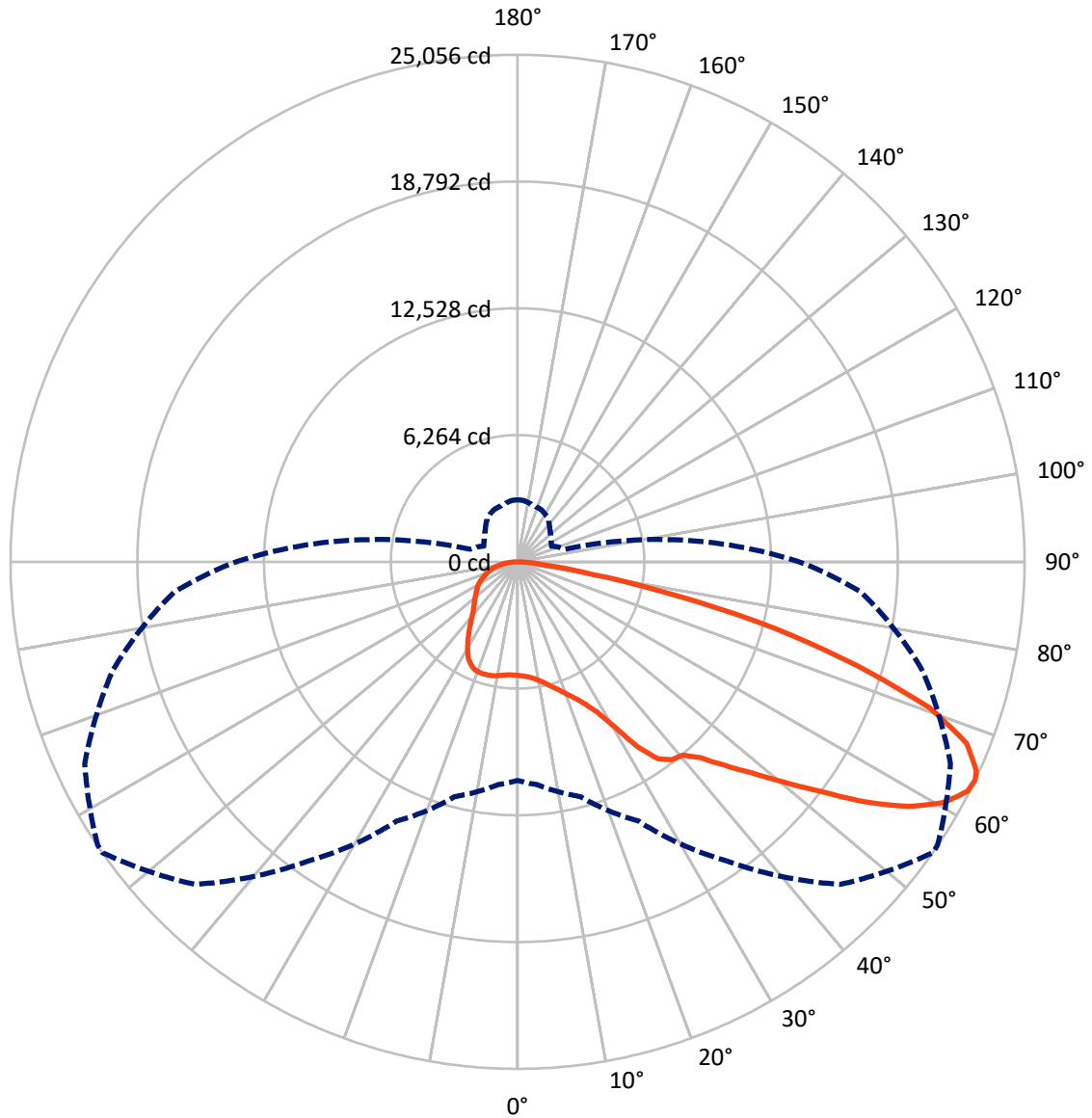
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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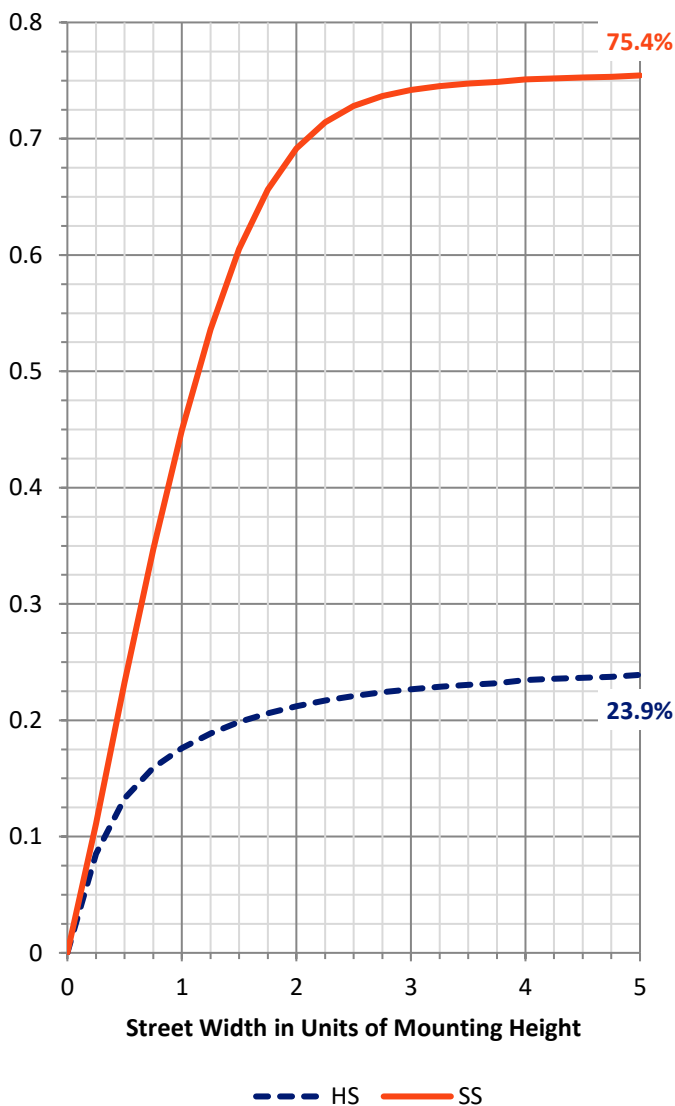
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10163.3	0.0	10163.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	31674.8	0.0	31674.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	41838.0	0.0	41838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.0	1.3
10°-20°	1722.9	4.1
20°-30°	3067.2	7.3
30°-40°	4719.3	11.3
40°-50°	6689.9	16.0
50°-60°	9683.5	23.1
60°-70°	10021.4	24.0
70°-80°	4693.0	11.2
80°-90°	694.7	1.7
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°	41838.0	100.0
0°-180°	41838.0	100.0

Coefficient of Utilization

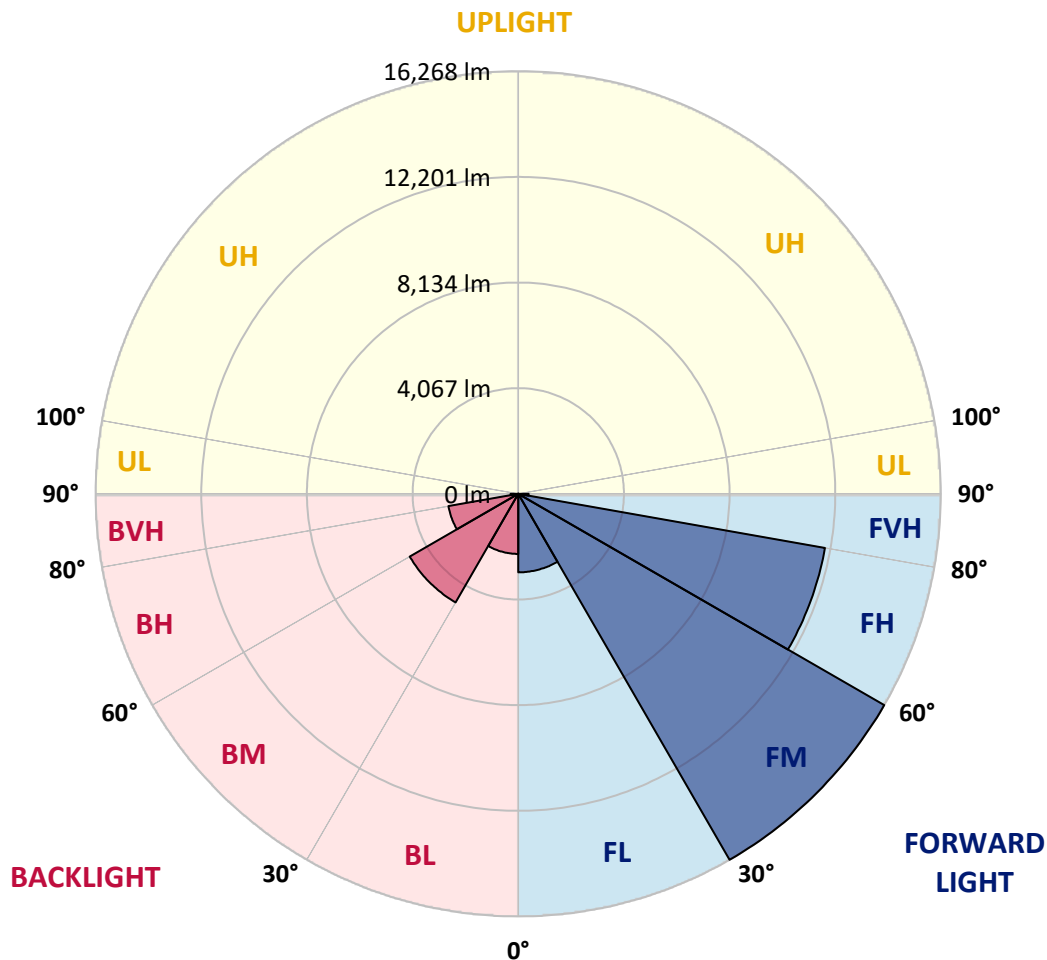


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.4	7.2			
FM (30°-60°)	16267.8	38.9			
FH (60°-80°)	11987.8	28.7			G4/12000
FVH (80°-90°)	397.8	1.0			G3/500
BL (0°-30°)	2314.8	5.5	B3/2500		
BM (30°-60°)	4824.9	11.5	B3/5000		
BH (60°-80°)	2726.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	297.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4
2.5°	5676.4	5674.0	5681.1	5674.0	5678.7	5662.3	5655.4	5660.1	5653.0	5641.4	5620.4
5°	5746.4	5744.0	5746.4	5737.0	5741.7	5732.3	5716.0	5720.7	5709.0	5683.3	5653.0
7.5°	5865.3	5856.0	5856.0	5853.6	5844.3	5830.3	5818.6	5813.9	5802.3	5769.7	5723.0
10°	6019.2	6019.2	6021.5	6002.9	6014.5	5988.9	5977.2	5974.9	5935.2	5893.2	5827.9
12.5°	6222.1	6233.8	6226.7	6217.4	6212.8	6203.4	6163.8	6173.1	6128.8	6056.5	5977.2
15°	6473.9	6492.6	6481.0	6476.3	6464.6	6429.6	6413.3	6406.3	6348.0	6243.1	6138.1
17.5°	6807.5	6784.1	6774.8	6763.2	6714.1	6688.5	6660.5	6655.9	6604.5	6481.0	6317.7
20°	7099.0	7131.6	7112.9	7101.3	7052.3	7003.3	6982.3	6975.4	6931.0	6795.8	6534.6
22.5°	7446.4	7453.5	7460.4	7432.5	7409.1	7371.8	7334.5	7322.9	7306.5	7166.6	6847.1
25°	7817.2	7845.3	7821.9	7793.9	7766.0	7763.6	7798.6	7793.9	7786.9	7651.6	7262.2
27.5°	8421.2	8446.9	8453.9	8423.6	8316.3	8325.6	8405.0	8430.6	8537.9	8314.0	7796.3
30°	8761.8	8787.4	8845.7	8960.0	9130.2	9279.5	9470.7	9529.0	9631.6	9209.5	8430.6
32.5°	8971.6	8981.0	9085.9	9298.1	9808.9	10366.2	10886.3	10907.3	10972.6	10380.2	9011.3
35°	9302.8	9309.8	9393.7	9627.0	10226.3	11154.5	11959.1	11984.8	11931.1	10744.1	9281.8
37.5°	9710.9	9729.6	9783.2	9976.8	10692.7	11814.5	12404.5	12385.9	11910.1	11033.3	9759.9
40°	10305.6	10305.6	10242.7	10503.9	11184.8	12192.3	12560.8	12528.2	12402.2	11870.4	10487.5
42.5°	10830.4	10821.0	10970.3	11147.5	11800.5	12775.3	13216.1	13269.7	13477.3	12922.2	11315.4
45°	11513.6	11555.7	11639.6	11961.4	12847.6	13771.2	14340.2	14391.5	14685.3	14160.6	12283.2
47.5°	12204.0	12217.9	12481.5	12910.6	14144.3	15121.5	15587.9	15671.8	15940.0	15608.9	13325.7
50°	12693.7	12826.6	13248.8	13925.0	15480.6	16767.9	17131.7	17232.0	17705.4	17185.4	14540.7
52.5°	13211.4	13342.0	13857.5	14888.2	17015.1	18451.7	18899.4	18967.1	19459.2	18780.5	15783.8
55°	13654.5	13775.8	14361.2	15741.7	18237.2	20170.5	20982.1	20902.7	21138.3	20009.6	16742.3
57.5°	13726.9	13824.8	14561.8	16287.5	19156.0	21644.4	22808.1	22854.8	22581.9	20928.4	17532.9
60°	13167.2	13367.7	14214.3	16229.2	19568.8	22670.5	24170.0	24202.7	23428.5	21399.5	17847.7
62.5°	12176.0	12155.0	13178.8	15291.7	18990.4	22903.7	24972.3	24937.3	23759.6	21173.3	17542.2
64°	10807.0	11058.9	12015.1	14139.6	18057.5	22544.5	25056.2	25037.6	23601.0	20702.2	17022.1
65°	9972.1	9958.1	10902.6	13197.5	17129.4	22003.5	24907.0	24881.3	23269.8	20280.1	16618.6
67.5°	7199.2	7231.9	8164.7	10184.3	13925.0	19888.3	23934.5	23838.9	21963.9	18880.8	15084.1
70°	4361.1	4379.7	5112.0	6756.1	9995.5	16077.6	21574.4	21579.1	19965.2	16791.2	12838.3
72.5°	2297.2	2346.1	2640.0	3836.3	6070.5	11280.4	17502.6	17917.6	17141.0	14330.9	10142.4
75°	1278.0	1285.0	1492.6	1891.3	3097.1	6313.0	13155.5	13274.4	13570.6	11534.6	7500.1
77.5°	974.8	988.9	1054.2	1222.0	1686.1	2926.8	7961.9	8558.9	9564.0	8132.1	4279.4
80°	790.6	804.6	860.5	960.8	1121.7	1387.6	3698.7	4020.5	5119.0	3610.1	1669.8
82.5°	615.7	606.4	678.6	743.9	816.3	820.9	1518.2	1679.1	2084.9	1553.2	722.9
85°	457.1	457.1	515.4	501.4	527.0	480.4	669.3	739.3	834.9	660.0	335.8
87.5°	181.9	200.5	338.2	303.2	235.5	188.9	247.2	261.2	289.2	258.9	139.9
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°	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4	5613.4
2.5°	5622.7	5629.7	5613.4	5601.7	5597.0	5590.1	5583.1	5585.5	5594.8	5604.1	5601.7
5°	5650.8	5653.0	5625.1	5611.1	5601.7	5592.4	5592.4	5599.4	5618.1	5632.0	5632.0
7.5°	5720.7	5720.7	5681.1	5655.4	5641.4	5625.1	5620.4	5622.7	5636.7	5655.4	5657.7
10°	5830.3	5821.0	5769.7	5730.0	5704.4	5664.7	5629.7	5611.1	5618.1	5629.7	5629.7
12.5°	5963.2	5937.6	5872.3	5818.6	5755.7	5681.1	5608.7	5571.4	5569.1	5580.8	5576.1
15°	6105.4	6077.5	5986.5	5888.6	5779.0	5669.4	5583.1	5529.5	5487.5	5475.8	5501.4
17.5°	6271.0	6212.8	6086.8	5951.6	5788.3	5646.1	5510.8	5401.2	5326.5	5305.5	5312.6
20°	6471.7	6394.7	6224.4	6012.2	5781.3	5562.1	5352.2	5205.3	5084.0	5046.7	5051.4
22.5°	6749.1	6616.2	6366.7	6042.5	5723.0	5403.5	5112.0	4920.8	4773.9	4715.5	4750.5
25°	7064.0	6919.4	6502.0	6035.5	5571.4	5149.3	4827.5	4578.0	4445.0	4358.7	4377.4
27.5°	7497.8	7241.2	6646.5	5972.6	5354.5	4839.2	4466.0	4230.5	4109.2	4064.9	4085.9
30°	8052.8	7658.7	6802.8	5802.3	5011.7	4447.4	4102.2	3948.3	3876.0	3820.0	3838.7
32.5°	8453.9	7952.5	6837.8	5515.5	4640.9	4090.5	3855.0	3740.7	3661.4	3607.8	3619.4
35°	8740.8	8202.1	6821.4	5163.3	4253.8	3796.7	3659.1	3565.8	3437.5	3320.9	3300.0
37.5°	9125.6	8514.6	6702.5	4778.5	3871.3	3598.4	3500.5	3327.9	3143.7	2987.5	2980.4
40°	9715.6	8880.7	6448.3	4326.1	3544.8	3451.5	3332.6	3108.7	2910.5	2784.6	2775.2
42.5°	10324.2	9218.9	6103.2	3850.3	3276.6	3297.6	3153.0	2931.5	2810.2	2728.6	2719.3
45°	11068.3	9585.0	5730.0	3437.5	3078.4	3153.0	2996.8	2868.5	2796.2	2742.5	2728.6
47.5°	11872.8	9960.5	5310.2	3066.7	2910.5	3020.1	2931.5	2873.1	2833.5	2796.2	2779.9
50°	12740.3	10380.2	4916.1	2768.2	2758.9	2882.5	2924.5	2903.5	2880.2	2868.5	2854.5
52.5°	13691.9	10809.4	4584.9	2558.3	2625.9	2784.6	2926.8	2943.1	2943.1	2936.2	2926.8
55°	14335.5	11107.9	4249.1	2388.1	2490.7	2705.3	2922.2	2985.1	3008.4	2999.1	2989.8
57.5°	14811.2	11271.1	3827.0	2241.2	2376.4	2628.3	2896.5	2989.8	3013.1	3024.7	3020.1
60°	14909.2	11119.5	3274.3	2087.2	2252.8	2516.3	2803.2	2919.8	2950.1	3022.5	3029.4
62.5°	14468.4	10653.1	2723.9	1935.7	2101.3	2346.1	2677.2	2840.5	2901.2	3013.1	3024.7
64°	13927.4	10130.7	2418.4	1840.0	2003.3	2250.5	2614.3	2819.5	2898.8	3048.1	3057.4
65°	13530.9	9750.5	2227.2	1779.4	1940.4	2187.5	2579.4	2826.6	2919.8	3101.7	3115.7
67.5°	12071.0	8442.2	1842.4	1637.2	1791.0	2080.3	2586.3	2884.8	2915.1	3122.7	3120.3
70°	9988.4	6721.2	1543.8	1506.6	1646.5	1994.0	2558.3	2791.6	2793.9	2931.5	2898.8
72.5°	7479.1	4967.4	1338.6	1371.3	1485.6	1788.8	2416.1	2665.6	2625.9	2644.6	2611.9
75°	5137.7	3285.9	1152.0	1226.7	1317.6	1581.2	2215.5	2420.7	2357.8	2334.4	2311.1
77.5°	2742.5	1816.7	958.5	1084.5	1145.1	1366.6	1933.3	2131.6	2066.3	1975.3	1945.0
80°	1110.1	855.9	772.0	897.9	932.9	1100.7	1609.1	1732.8	1683.8	1525.2	1473.9
82.5°	557.3	513.1	606.4	706.7	708.9	785.9	1196.3	1313.0	1203.4	1009.8	965.5
85°	291.5	300.8	417.4	496.7	438.4	424.5	718.3	795.2	730.0	634.3	571.4
87.5°	104.9	121.3	219.2	216.9	153.9	81.6	158.6	77.0	42.0	25.7	32.7
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)