

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: P647523

Luminaire Tested: **GALN-SA6D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647523
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-SA6D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 35619.5 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

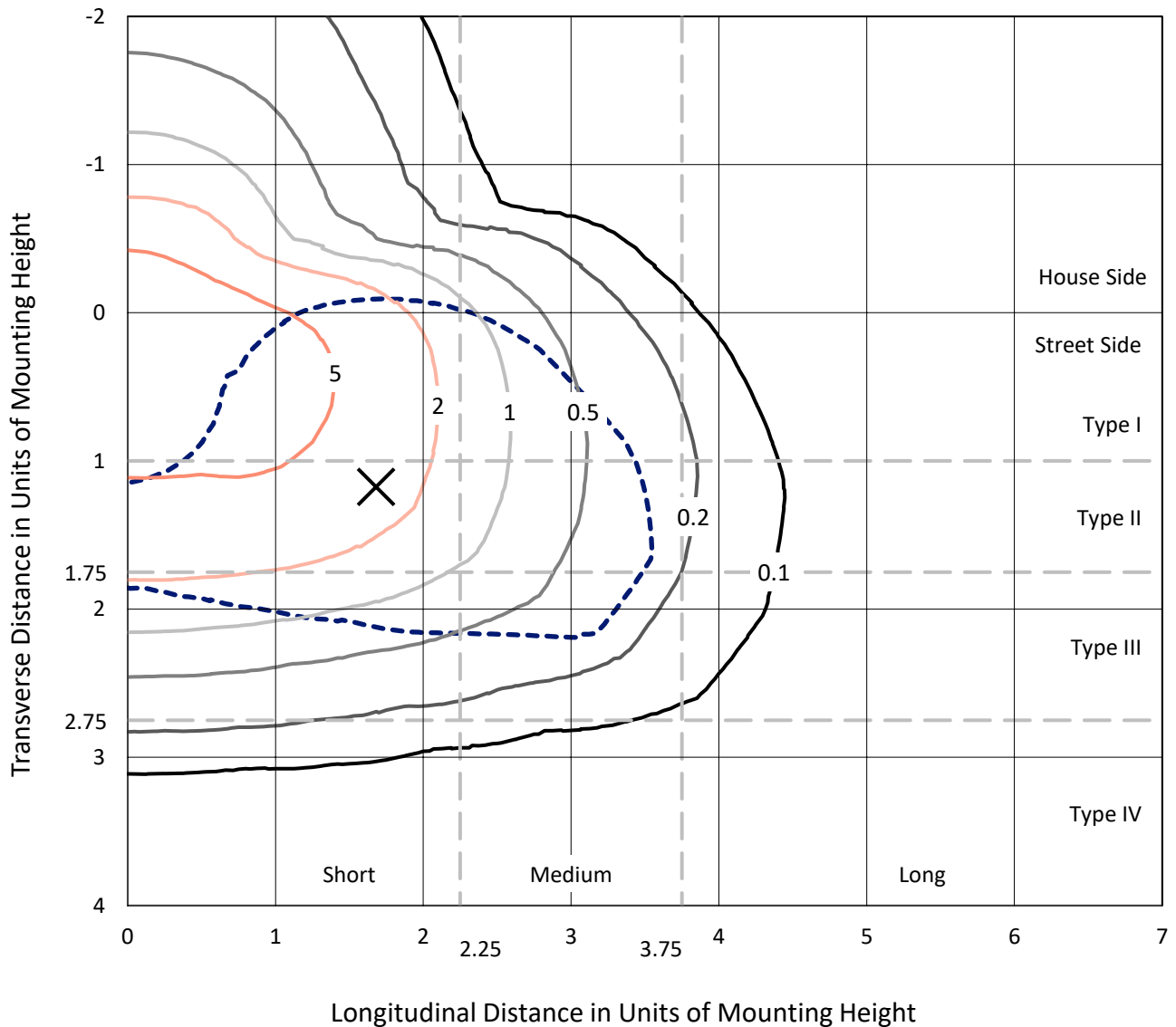
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

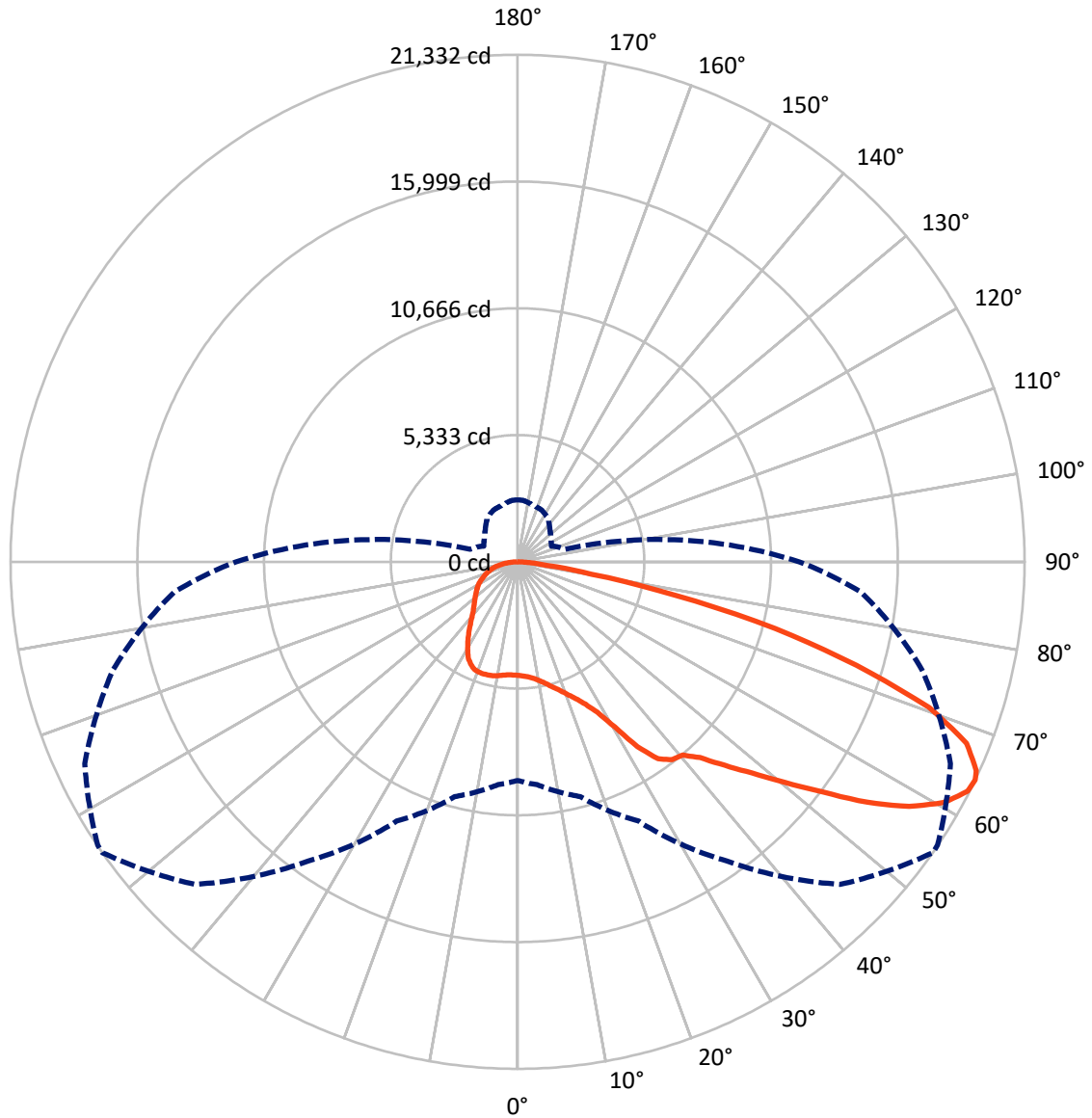
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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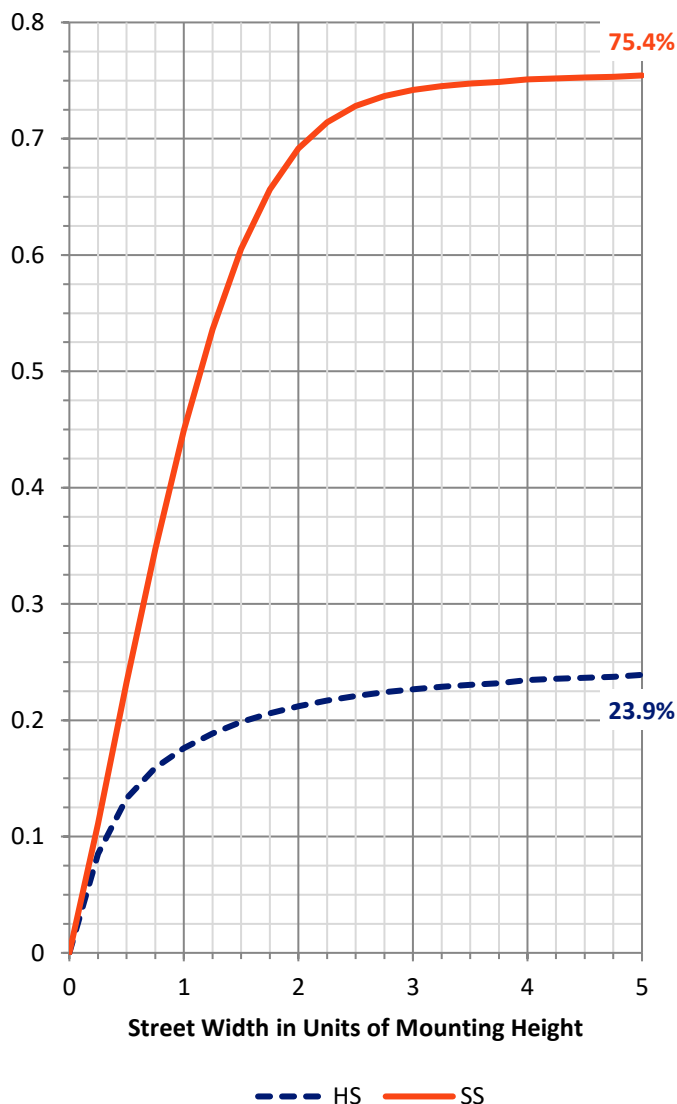
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8652.7	0.0	8652.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26966.8	0.0	26966.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	35619.5	0.0	35619.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.9	1.3
10°-20°	1466.8	4.1
20°-30°	2611.3	7.3
30°-40°	4017.8	11.3
40°-50°	5695.6	16.0
50°-60°	8244.2	23.1
60°-70°	8531.9	24.0
70°-80°	3995.5	11.2
80°-90°	591.5	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°	35619.5	100.0
0°-180°	35619.5	100.0

Coefficient of Utilization



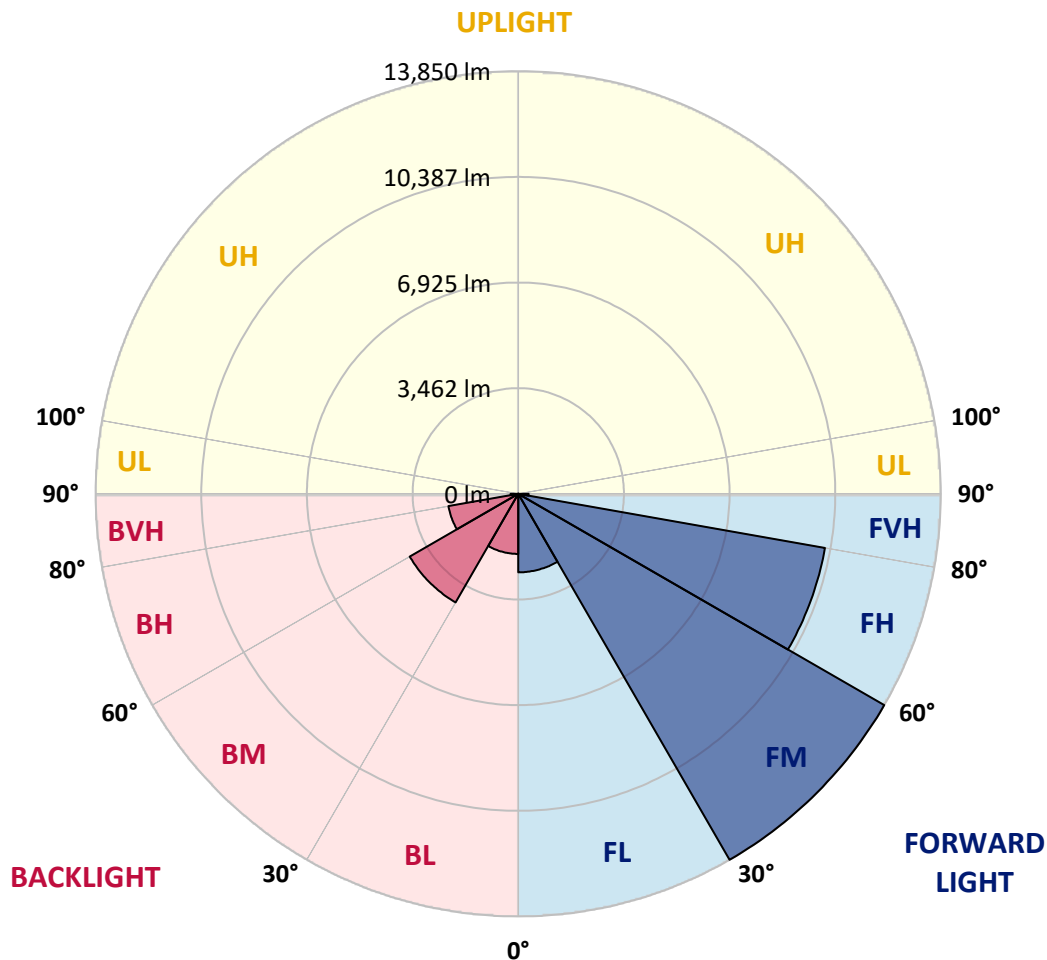
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.3	7.2			
FM (30°-60°)	13849.8	38.9			
FH (60°-80°)	10206.0	28.7			G4/12000
FVH (80°-90°)	338.7	1.0			G3/500
BL (0°-30°)	1970.7	5.5	B3/2500		
BM (30°-60°)	4107.8	11.5	B3/5000		
BH (60°-80°)	2321.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	252.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0
2.5°	4832.7	4830.6	4836.7	4830.6	4834.6	4820.8	4814.8	4818.7	4812.8	4802.8	4785.0
5°	4892.3	4890.2	4892.3	4884.3	4888.3	4880.3	4866.4	4870.4	4860.5	4838.6	4812.8
7.5°	4993.5	4985.5	4985.5	4983.6	4975.7	4963.7	4953.8	4949.8	4939.9	4912.1	4872.4
10°	5124.5	5124.5	5126.5	5110.6	5120.6	5098.7	5088.8	5086.8	5053.1	5017.3	4961.7
12.5°	5297.2	5307.2	5301.2	5293.3	5289.3	5281.4	5247.7	5255.6	5217.8	5156.3	5088.8
15°	5511.7	5527.6	5517.6	5513.7	5503.8	5474.0	5460.1	5454.1	5404.5	5315.2	5225.8
17.5°	5795.6	5775.8	5767.8	5757.9	5716.2	5694.4	5670.6	5666.6	5622.9	5517.6	5378.7
20°	6043.8	6071.6	6055.7	6045.8	6004.1	5962.4	5944.5	5938.6	5900.8	5785.7	5563.3
22.5°	6339.6	6345.6	6351.5	6327.7	6307.8	6276.1	6244.3	6234.4	6220.5	6101.4	5829.4
25°	6655.3	6679.1	6659.3	6635.5	6611.7	6609.7	6639.4	6635.5	6629.5	6514.4	6182.8
27.5°	7169.5	7191.4	7197.3	7171.6	7080.2	7088.2	7155.7	7177.5	7268.8	7078.2	6637.5
30°	7459.5	7481.3	7531.0	7628.2	7773.2	7900.2	8063.0	8112.7	8200.0	7840.6	7177.5
32.5°	7638.2	7646.1	7735.4	7916.1	8350.9	8825.5	9268.2	9286.1	9341.7	8837.4	7671.9
35°	7920.1	7926.1	7997.5	8196.1	8706.3	9496.5	10181.6	10203.4	10157.7	9147.1	7902.2
37.5°	8267.5	8283.4	8329.1	8493.9	9103.5	10058.4	10560.8	10544.9	10139.8	9393.3	8309.3
40°	8773.8	8773.8	8720.3	8942.6	9522.4	10380.1	10693.8	10666.0	10558.8	10106.1	8928.7
42.5°	9220.6	9212.6	9339.7	9490.6	10046.5	10876.5	11251.7	11297.4	11474.1	11001.5	9633.6
45°	9802.3	9838.1	9909.6	10183.5	10938.0	11724.3	12208.7	12252.4	12502.6	12055.9	10457.5
47.5°	10390.0	10401.9	10626.3	10991.6	12041.9	12873.9	13271.0	13342.5	13570.8	13288.8	11345.0
50°	10807.0	10920.2	11279.5	11855.3	13179.6	14275.6	14585.3	14670.8	15073.8	14631.0	12379.5
52.5°	11247.8	11359.0	11797.7	12675.3	14486.0	15709.2	16090.3	16147.9	16566.9	15989.1	13437.8
55°	11625.0	11728.2	12226.6	13402.0	15526.5	17172.4	17863.4	17795.9	17996.4	17035.4	14253.8
57.5°	11686.5	11769.9	12397.3	13866.6	16308.7	18427.3	19418.0	19457.7	19225.4	17817.7	14926.9
60°	11210.1	11380.7	12101.5	13817.0	16660.2	19300.9	20577.6	20605.3	19946.1	18218.8	15194.9
62.5°	10366.2	10348.4	11220.0	13018.8	16167.8	19499.4	21260.6	21230.7	20228.1	18026.2	14934.8
64°	9200.7	9415.2	10229.2	12038.0	15373.6	19193.7	21332.1	21316.2	20093.1	17625.1	14492.0
65°	8489.9	8478.0	9282.2	11235.8	14583.4	18733.0	21205.0	21183.1	19811.2	17265.8	14148.6
67.5°	6129.2	6157.0	6951.2	8670.6	11855.3	16932.2	20377.0	20295.6	18699.3	16074.4	12842.1
70°	3712.8	3728.7	4352.1	5751.9	8509.8	13687.9	18367.7	18371.7	16997.7	14295.5	10930.1
72.5°	1955.7	1997.4	2247.6	3266.1	5168.2	9603.8	14901.0	15254.5	14593.3	12200.8	8634.8
75°	1088.1	1094.0	1270.7	1610.2	2636.8	5374.7	11200.1	11301.4	11553.6	9820.2	6385.3
77.5°	829.9	841.9	897.5	1040.4	1435.5	2491.8	6778.4	7286.8	8142.5	6923.4	3643.4
80°	673.1	685.0	732.7	818.0	955.0	1181.4	3149.0	3423.0	4358.1	3073.5	1421.6
82.5°	524.1	516.2	577.8	633.4	694.9	698.9	1292.6	1429.5	1775.0	1322.3	615.5
85°	389.2	389.2	438.8	426.9	448.7	409.0	569.9	629.4	710.8	561.9	285.9
87.5°	154.9	170.8	287.9	258.1	200.5	160.8	210.5	222.4	246.2	220.4	119.1
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°	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0
2.5°	4787.0	4793.0	4779.0	4769.1	4765.2	4759.2	4753.3	4755.2	4763.1	4771.1	4769.1
5°	4810.8	4812.8	4789.0	4777.1	4769.1	4761.2	4761.2	4767.1	4783.0	4794.9	4794.9
7.5°	4870.4	4870.4	4836.7	4814.8	4802.8	4789.0	4785.0	4787.0	4798.9	4814.8	4816.8
10°	4963.7	4955.8	4912.1	4878.3	4856.5	4822.7	4793.0	4777.1	4783.0	4793.0	4793.0
12.5°	5076.9	5055.0	4999.5	4953.8	4900.2	4836.7	4775.0	4743.3	4741.3	4751.2	4747.3
15°	5198.0	5174.1	5096.7	5013.3	4920.1	4826.7	4753.3	4707.6	4671.8	4661.9	4683.7
17.5°	5339.0	5289.3	5182.1	5066.9	4928.0	4806.8	4691.7	4598.4	4534.8	4517.0	4522.9
20°	5509.7	5444.2	5299.3	5118.5	4922.0	4735.3	4556.7	4431.6	4328.3	4296.6	4300.5
22.5°	5746.0	5632.8	5420.4	5144.4	4872.4	4600.4	4352.1	4189.4	4064.3	4014.7	4044.4
25°	6014.0	5890.9	5535.5	5138.4	4743.3	4383.9	4110.0	3897.5	3784.3	3710.9	3726.8
27.5°	6383.3	6165.0	5658.7	5084.8	4558.7	4119.9	3802.2	3601.6	3498.4	3460.7	3478.6
30°	6855.9	6520.4	5791.6	4939.9	4266.8	3786.4	3492.5	3361.4	3299.9	3252.2	3268.1
32.5°	7197.3	6770.5	5821.4	4695.7	3951.1	3482.5	3282.0	3184.7	3117.2	3071.6	3081.5
35°	7441.6	6983.0	5807.5	4395.8	3621.5	3232.4	3115.2	3035.8	2926.6	2827.3	2809.5
37.5°	7769.2	7249.0	5706.3	4068.2	3295.9	3063.6	2980.2	2833.3	2676.5	2543.4	2537.5
40°	8271.5	7560.7	5489.8	3683.1	3017.9	2938.5	2837.3	2646.6	2477.9	2370.7	2362.7
42.5°	8789.7	7848.6	5196.0	3278.0	2789.6	2807.4	2684.4	2495.7	2392.5	2323.0	2315.1
45°	9423.1	8160.3	4878.3	2926.6	2620.9	2684.4	2551.3	2442.2	2380.6	2334.9	2323.0
47.5°	10108.1	8480.0	4521.0	2610.9	2477.9	2571.2	2495.7	2446.1	2412.3	2380.6	2366.7
50°	10846.7	8837.4	4185.4	2356.8	2348.8	2454.1	2489.8	2471.9	2452.0	2442.2	2430.2
52.5°	11656.8	9202.7	3903.5	2178.1	2235.6	2370.7	2491.8	2505.7	2505.7	2499.7	2491.8
55°	12204.8	9456.8	3617.5	2033.1	2120.5	2303.2	2487.8	2541.4	2561.3	2553.4	2545.4
57.5°	12609.8	9595.8	3258.1	1908.0	2023.2	2237.7	2466.0	2545.4	2565.3	2575.2	2571.2
60°	12693.2	9466.8	2787.6	1777.0	1918.0	2142.4	2386.6	2485.8	2511.6	2573.2	2579.1
62.5°	12317.9	9069.6	2319.0	1648.0	1788.9	1997.4	2279.3	2418.3	2470.0	2565.3	2575.2
64°	11857.3	8624.9	2059.0	1566.5	1705.5	1916.0	2225.8	2400.4	2467.9	2595.0	2603.0
65°	11519.7	8301.3	1896.1	1514.9	1651.9	1862.4	2195.9	2406.4	2485.8	2640.7	2652.6
67.5°	10276.9	7187.5	1568.5	1393.8	1524.8	1771.1	2201.9	2456.0	2481.9	2658.6	2656.6
70°	8503.8	5722.2	1314.4	1282.6	1401.7	1697.6	2178.1	2376.6	2378.6	2495.7	2467.9
72.5°	6367.4	4229.1	1139.7	1167.5	1264.8	1522.9	2056.9	2269.4	2235.6	2251.5	2223.7
75°	4374.0	2797.6	980.9	1044.4	1121.8	1346.1	1886.2	2060.9	2007.3	1987.5	1967.6
77.5°	2334.9	1546.7	816.0	923.2	974.8	1163.5	1645.9	1814.8	1759.2	1681.7	1655.9
80°	945.1	728.7	657.2	764.4	794.2	937.2	1370.0	1475.3	1433.5	1298.5	1254.8
82.5°	474.5	436.8	516.2	601.6	603.6	669.1	1018.5	1117.8	1024.5	859.7	822.0
85°	248.2	256.1	355.4	422.9	373.3	361.4	611.5	677.1	621.5	540.0	486.5
87.5°	89.3	103.3	186.7	184.6	131.1	69.5	135.0	65.5	35.7	21.8	27.8
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)