

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: P648678

Luminaire Tested: **GALN-SA9B-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648678
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-SA9B-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40054.4 lumens
Efficiency: N/A
Efficacy: 110.0 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

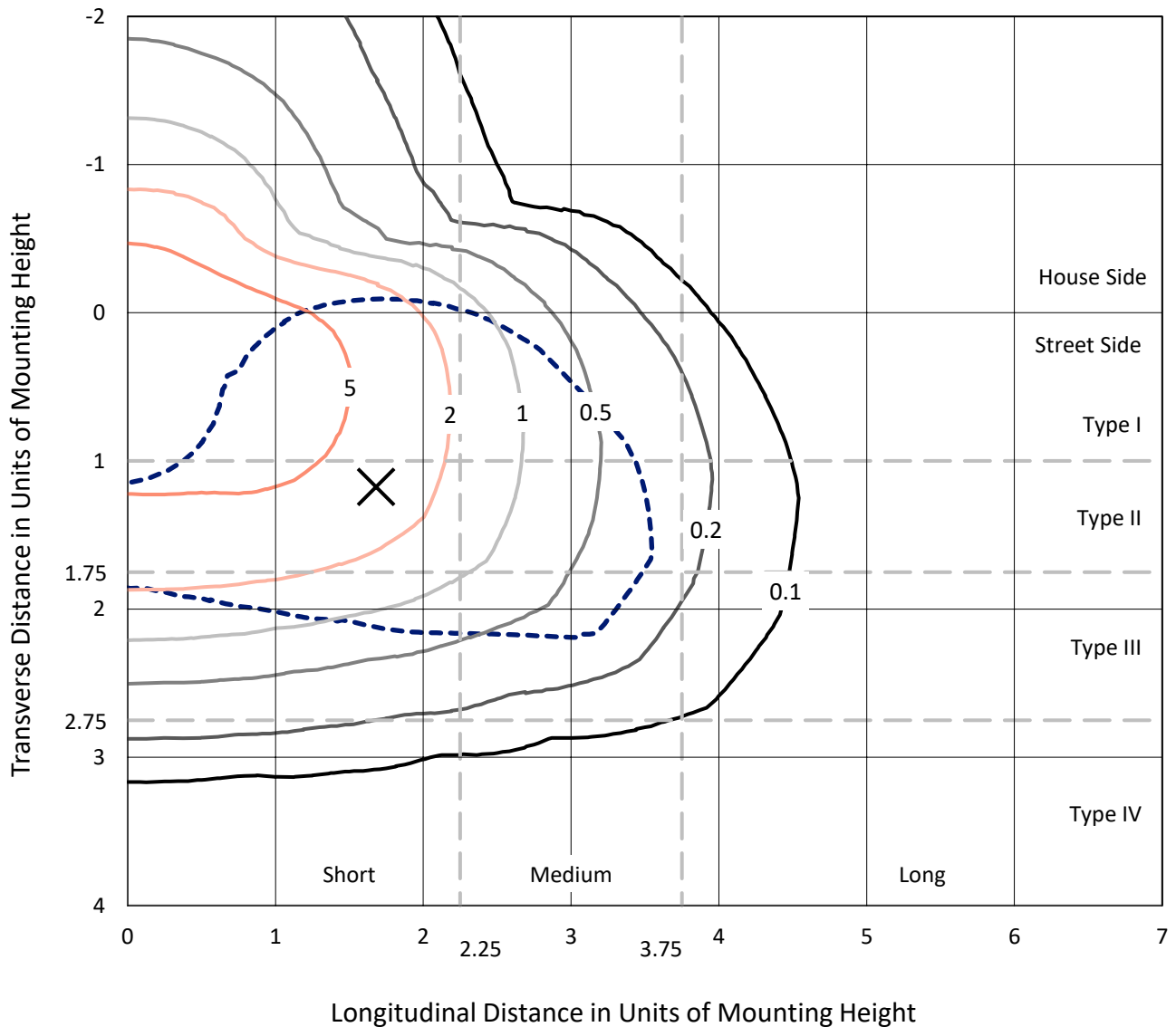
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

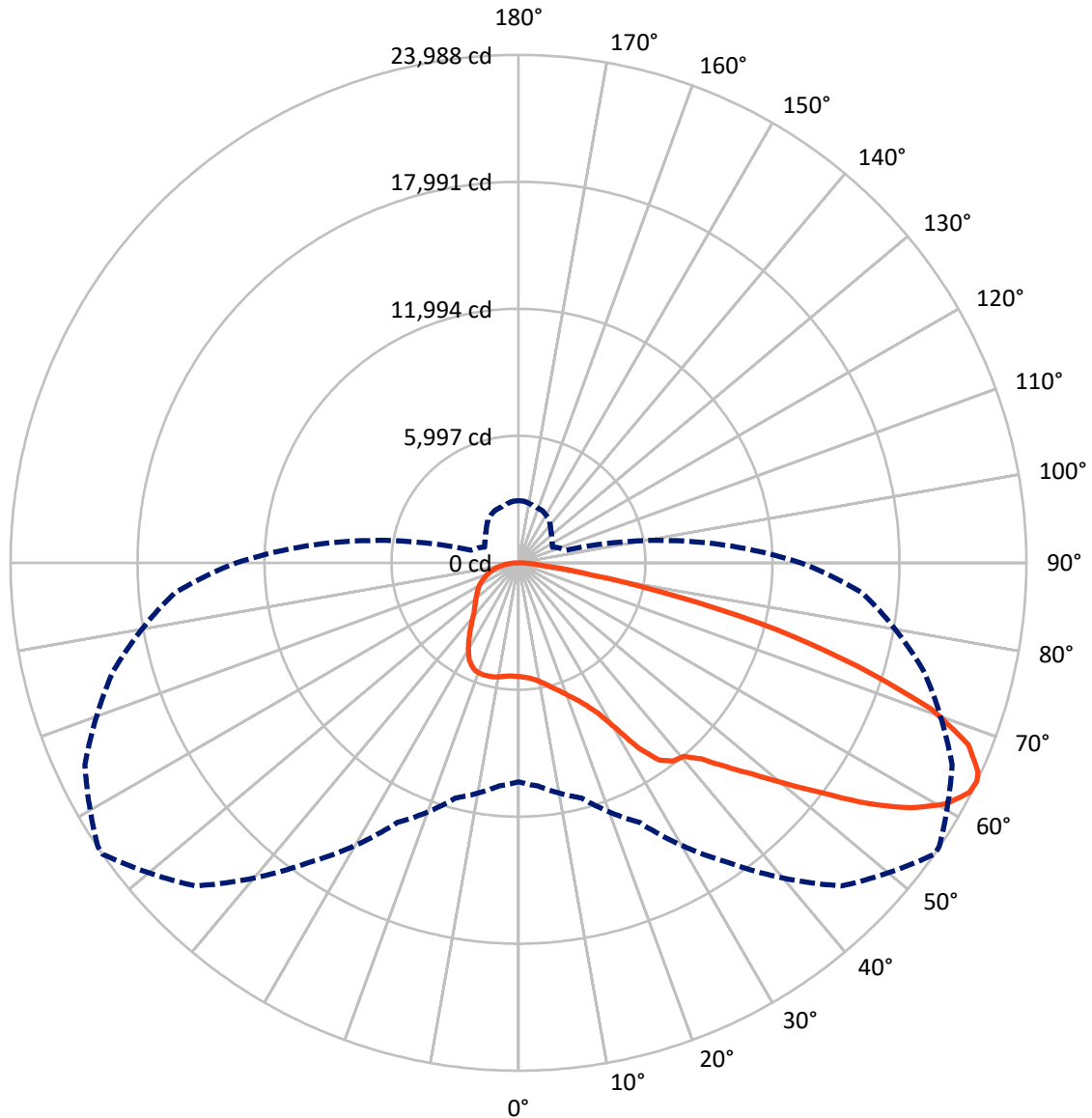
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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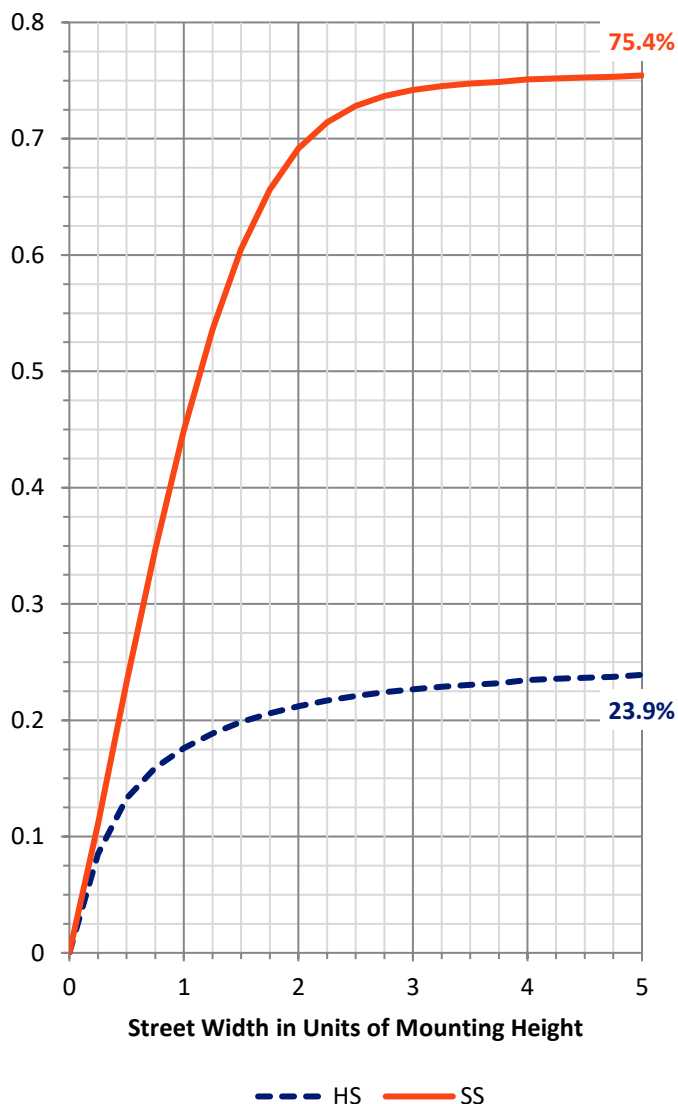
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9730.0	0.0	9730.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	30324.4	0.0	30324.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	40054.4	0.0	40054.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.8	1.3
10°-20°	1649.5	4.1
20°-30°	2936.5	7.3
30°-40°	4518.1	11.3
40°-50°	6404.7	16.0
50°-60°	9270.7	23.1
60°-70°	9594.2	24.0
70°-80°	4493.0	11.2
80°-90°	665.1	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°	40054.4	100.0
0°-180°	40054.4	100.0

Coefficient of Utilization

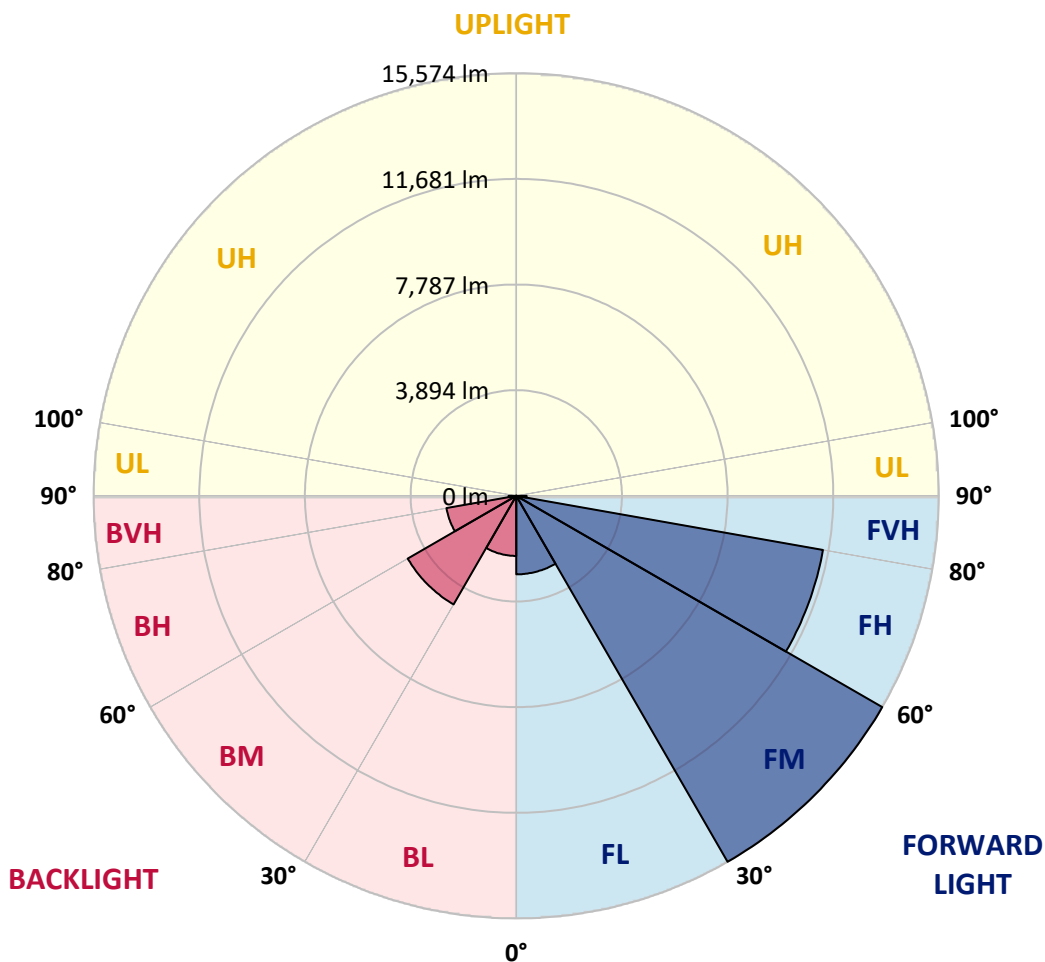


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.6	7.2			
FM (30°-60°)	15574.2	38.9			
FH (60°-80°)	11476.7	28.7			G4/12000
FVH (80°-90°)	380.8	1.0			G3/500
BL (0°-30°)	2216.1	5.5	B3/2500		
BM (30°-60°)	4619.2	11.5	B3/5000		
BH (60°-80°)	2610.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	284.3	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°	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1
2.5°	5434.3	5432.1	5438.8	5432.1	5436.6	5420.9	5414.3	5418.8	5412.0	5400.9	5380.8
5°	5501.4	5499.1	5501.4	5492.4	5496.9	5488.0	5472.3	5476.8	5465.7	5441.1	5412.0
7.5°	5615.2	5606.3	5606.3	5604.1	5595.2	5581.7	5570.6	5566.1	5554.9	5523.7	5479.0
10°	5762.6	5762.6	5764.8	5747.0	5758.1	5733.5	5722.4	5720.1	5682.2	5642.0	5579.5
12.5°	5956.8	5967.9	5961.3	5952.4	5947.9	5939.0	5901.0	5909.9	5867.5	5798.3	5722.4
15°	6197.9	6215.8	6204.6	6200.2	6189.0	6155.6	6139.9	6133.2	6077.4	5977.0	5876.4
17.5°	6517.2	6494.9	6486.0	6474.8	6427.9	6403.4	6376.6	6372.1	6323.0	6204.6	6048.4
20°	6796.3	6827.6	6809.7	6798.6	6751.7	6704.8	6684.7	6678.0	6635.5	6506.0	6256.0
22.5°	7129.0	7135.7	7142.4	7115.6	7093.3	7057.6	7021.8	7010.7	6995.0	6861.0	6555.2
25°	7484.0	7510.8	7488.5	7461.7	7434.9	7432.6	7466.1	7461.7	7454.9	7325.4	6952.6
27.5°	8062.2	8086.8	8093.5	8064.5	7961.8	7970.7	8046.7	8071.2	8173.9	7959.5	7463.9
30°	8388.2	8412.8	8468.6	8578.0	8741.0	8883.8	9067.0	9122.8	9221.0	8816.9	8071.2
32.5°	8589.2	8598.1	8698.6	8901.8	9390.7	9924.3	10422.2	10442.3	10504.8	9937.7	8627.1
35°	8906.2	8912.9	8993.3	9216.5	9790.3	10678.9	11449.3	11473.8	11422.5	10286.0	8886.1
37.5°	9297.0	9314.8	9366.2	9551.4	10236.9	11310.8	11875.7	11857.8	11402.4	10562.8	9343.8
40°	9866.3	9866.3	9806.0	10056.1	10708.0	11672.5	12025.2	11994.0	11873.4	11364.4	10040.4
42.5°	10368.6	10359.7	10502.6	10672.3	11297.4	12230.7	12652.7	12704.0	12902.7	12371.3	10833.0
45°	11022.8	11063.0	11143.3	11451.5	12299.9	13184.1	13728.8	13777.9	14059.2	13556.9	11759.6
47.5°	11683.7	11697.1	11949.4	12360.2	13541.3	14476.7	14923.3	15003.7	15260.4	14943.4	12757.6
50°	12152.6	12279.8	12683.9	13331.4	14820.6	16053.1	16401.3	16497.3	16950.6	16452.7	13920.8
52.5°	12648.2	12773.2	13266.7	14253.5	16289.7	17665.0	18093.7	18158.5	18629.6	17979.9	15110.9
55°	13072.4	13188.5	13748.9	15070.6	17459.6	19310.6	20087.6	20011.6	20237.1	19156.5	16028.5
57.5°	13141.6	13235.4	13940.9	15593.1	18339.3	20721.6	21835.7	21880.4	21619.2	20036.2	16785.4
60°	12605.8	12797.8	13608.2	15537.3	18734.5	21704.0	23139.6	23170.8	22429.6	20487.2	17086.8
62.5°	11656.9	11636.8	12616.9	14639.8	18180.8	21927.3	23907.7	23874.1	22746.6	20270.6	16794.3
64°	10346.3	10587.4	11502.8	13536.8	17287.7	21583.4	23988.1	23970.1	22594.8	19819.6	16296.4
65°	9547.0	9533.6	10437.9	12634.8	16399.2	21065.4	23845.2	23820.6	22277.8	19415.5	15910.2
67.5°	6892.3	6923.6	7816.7	9750.2	13331.4	19040.4	22914.1	22822.6	21027.5	18075.9	14441.0
70°	4175.1	4193.0	4894.1	6468.1	9569.3	15392.1	20654.6	20659.1	19114.0	16075.4	12291.0
72.5°	2199.2	2246.1	2527.4	3672.7	5811.7	10799.5	16756.4	17153.7	16410.3	13719.9	9710.0
75°	1223.5	1230.2	1428.9	1810.7	2965.0	6043.9	12594.6	12708.5	12992.0	11042.9	7180.3
77.5°	933.3	946.6	1009.2	1170.0	1614.2	2802.0	7622.4	8193.9	9156.2	7785.4	4097.0
80°	756.8	770.3	823.9	919.9	1074.0	1328.4	3541.0	3849.1	4900.7	3456.2	1598.6
82.5°	589.4	580.5	649.7	712.2	781.4	785.9	1453.5	1607.5	1996.0	1487.0	692.2
85°	437.6	437.6	493.4	480.1	504.6	459.9	640.8	707.8	799.3	631.9	321.5
87.5°	174.1	192.0	323.8	290.3	225.5	180.9	236.7	250.1	276.9	247.8	134.0
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°	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1	5374.1
2.5°	5383.0	5389.7	5374.1	5362.9	5358.5	5351.7	5345.1	5347.3	5356.2	5365.2	5362.9
5°	5409.8	5412.0	5385.2	5371.8	5362.9	5354.0	5354.0	5360.7	5378.6	5392.0	5392.0
7.5°	5476.8	5476.8	5438.8	5414.3	5400.9	5385.2	5380.8	5383.0	5396.4	5414.3	5416.5
10°	5581.7	5572.8	5523.7	5485.7	5461.2	5423.2	5389.7	5371.8	5378.6	5389.7	5389.7
12.5°	5709.0	5684.4	5621.9	5570.6	5510.3	5438.8	5369.7	5333.9	5331.7	5342.8	5338.3
15°	5845.2	5818.4	5731.3	5637.5	5532.6	5427.7	5345.1	5293.7	5253.5	5242.3	5266.9
17.5°	6003.7	5947.9	5827.3	5697.8	5541.5	5405.4	5275.9	5170.9	5099.4	5079.4	5086.1
20°	6195.7	6122.0	5959.0	5755.9	5534.9	5324.9	5124.0	4983.4	4867.3	4831.6	4836.0
22.5°	6461.4	6334.2	6095.3	5784.9	5479.0	5173.1	4894.1	4711.0	4570.3	4514.5	4548.0
25°	6762.8	6624.4	6224.8	5778.2	5333.9	4929.8	4621.7	4382.8	4255.5	4172.9	4190.8
27.5°	7178.1	6932.5	6363.2	5717.9	5126.2	4632.9	4275.6	4050.1	3934.0	3891.6	3911.7
30°	7709.5	7332.2	6512.8	5554.9	4798.1	4257.7	3927.3	3779.9	3710.7	3657.2	3675.0
32.5°	8093.5	7613.5	6546.3	5280.3	4443.1	3916.2	3690.7	3581.2	3505.3	3454.0	3465.2
35°	8368.2	7852.4	6530.6	4943.2	4072.5	3634.8	3503.1	3413.8	3290.9	3179.4	3159.2
37.5°	8736.6	8151.6	6416.8	4574.8	3706.3	3445.0	3351.2	3186.0	3009.7	2860.1	2853.4
40°	9301.4	8502.0	6173.4	4141.7	3393.7	3304.4	3190.5	2976.2	2786.4	2665.8	2656.9
42.5°	9884.1	8825.8	5843.0	3686.2	3136.9	3157.1	3018.6	2806.5	2690.4	2612.2	2603.3
45°	10596.3	9176.4	5485.7	3290.9	2947.1	3018.6	2869.0	2746.2	2677.0	2625.6	2612.2
47.5°	11366.7	9535.8	5083.9	2936.0	2786.4	2891.3	2806.5	2750.7	2712.7	2677.0	2661.3
50°	12197.2	9937.7	4706.5	2650.2	2641.3	2759.6	2799.8	2779.7	2757.3	2746.2	2732.8
52.5°	13108.1	10348.5	4389.5	2449.2	2514.0	2665.8	2802.0	2817.6	2817.6	2811.0	2802.0
55°	13724.3	10634.3	4068.0	2286.3	2384.5	2589.9	2797.6	2857.9	2880.2	2871.3	2862.3
57.5°	14179.8	10790.6	3663.8	2145.7	2275.1	2516.2	2773.0	2862.3	2884.7	2895.8	2891.3
60°	14273.6	10645.4	3134.7	1998.3	2156.8	2409.1	2683.7	2795.3	2824.4	2893.6	2900.2
62.5°	13851.6	10199.0	2607.8	1853.1	2011.7	2246.1	2563.2	2719.4	2777.5	2884.7	2895.8
64°	13333.6	9698.8	2315.3	1761.6	1917.9	2154.6	2502.9	2699.3	2775.3	2918.2	2927.1
65°	12954.1	9334.8	2132.2	1703.6	1857.6	2094.3	2469.3	2706.0	2795.3	2969.4	2982.8
67.5°	11556.4	8082.4	1763.9	1567.3	1714.7	1991.6	2476.1	2761.9	2790.8	2989.6	2987.3
70°	9562.6	6434.6	1478.1	1442.3	1576.3	1909.0	2449.2	2672.5	2674.7	2806.5	2775.3
72.5°	7160.2	4755.6	1281.5	1312.9	1422.2	1712.5	2313.1	2552.0	2514.0	2531.9	2500.6
75°	4918.6	3145.9	1102.9	1174.4	1261.5	1513.8	2121.1	2317.5	2257.2	2234.9	2212.6
77.5°	2625.6	1739.3	917.6	1038.2	1096.3	1308.4	1850.9	2040.7	1978.2	1891.1	1862.1
80°	1062.8	819.4	739.0	859.6	893.1	1053.8	1540.6	1658.9	1612.0	1460.2	1411.0
82.5°	533.6	491.2	580.5	676.5	678.7	752.4	1145.4	1257.0	1152.1	966.8	924.3
85°	279.1	288.0	399.6	475.6	419.8	406.4	687.6	761.3	698.8	607.3	547.0
87.5°	100.5	116.1	209.8	207.7	147.4	78.1	151.8	73.7	40.2	24.6	31.2
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)