

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: P530298

Luminaire Tested: **GALN-SA5C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27338 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

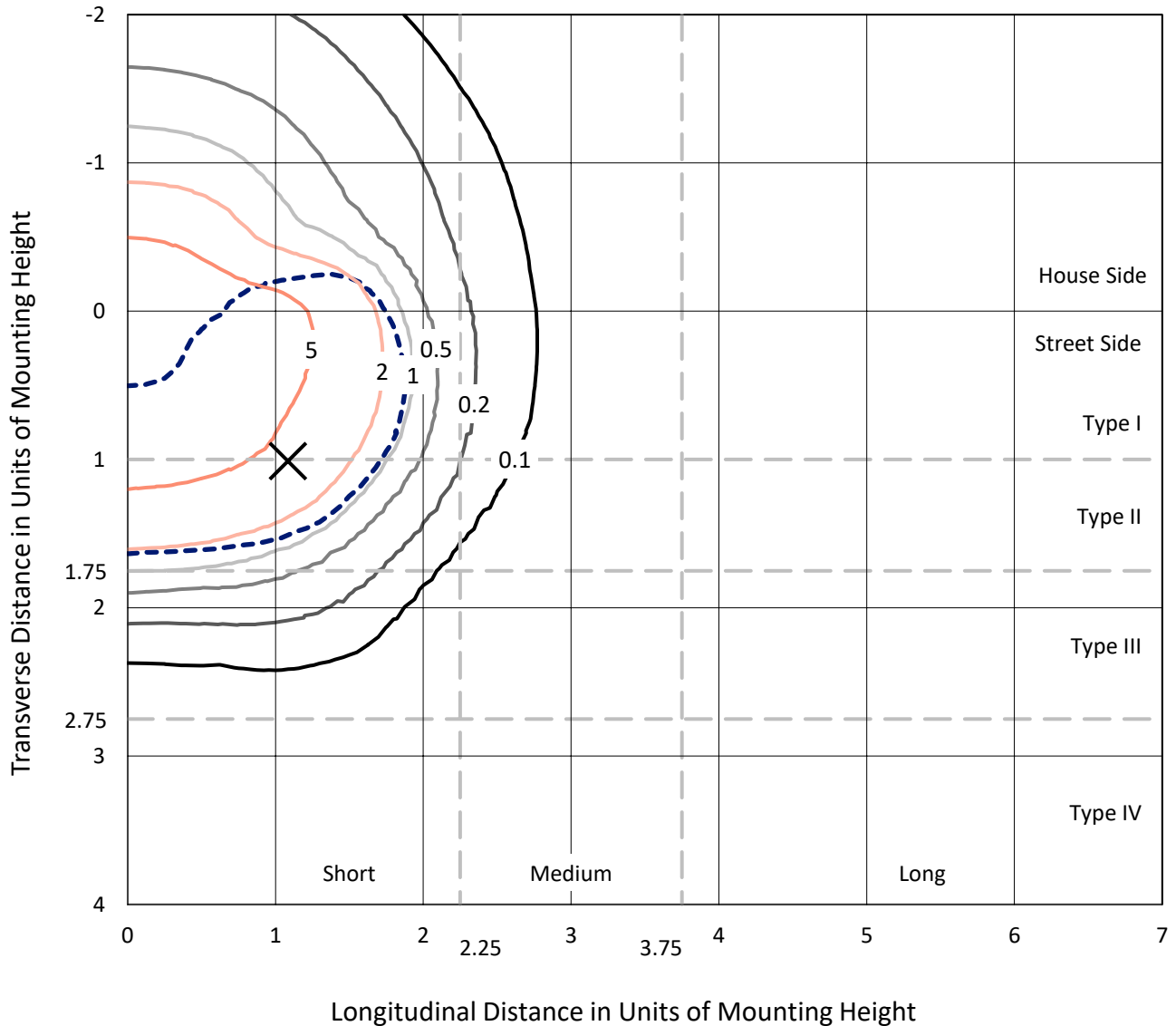
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

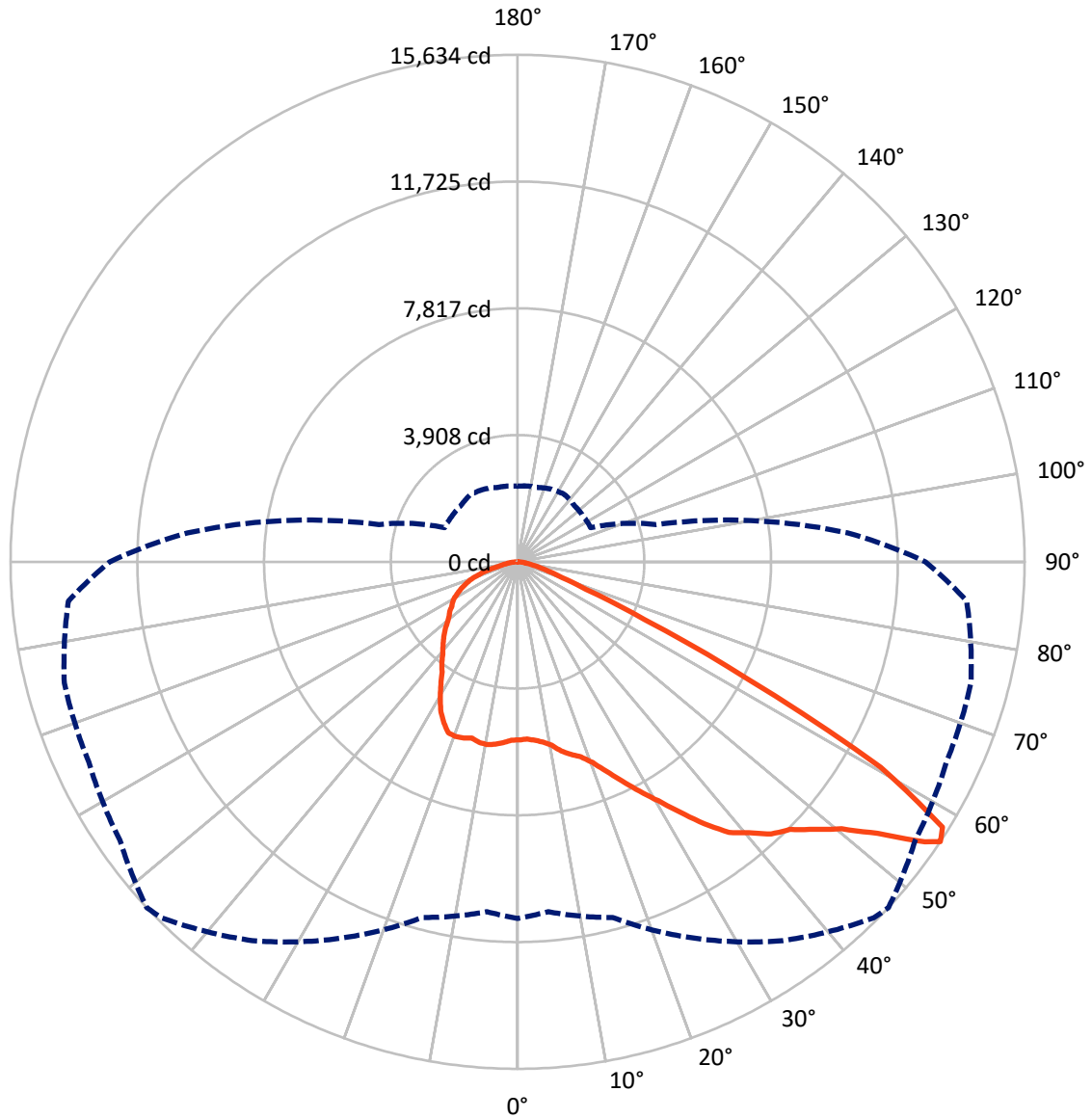
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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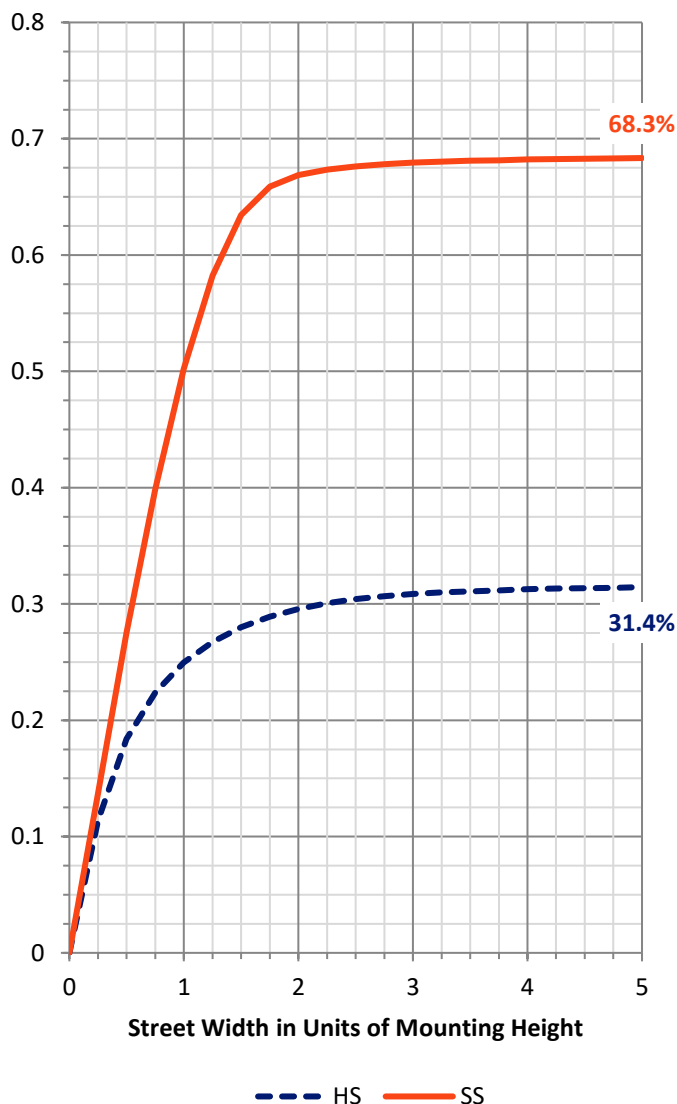
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8663.1	0.0	8663.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18674.9	0.0	18674.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	27338.0	0.0	27338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	2.0
10°-20°	1687.8	6.2
20°-30°	2983.7	10.9
30°-40°	4481.4	16.4
40°-50°	6150.3	22.5
50°-60°	7327.3	26.8
60°-70°	3135.6	11.5
70°-80°	887.4	3.2
80°-90°	149.3	0.5
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°	27338.0	100.0
0°-180°	27338.0	100.0

Coefficient of Utilization

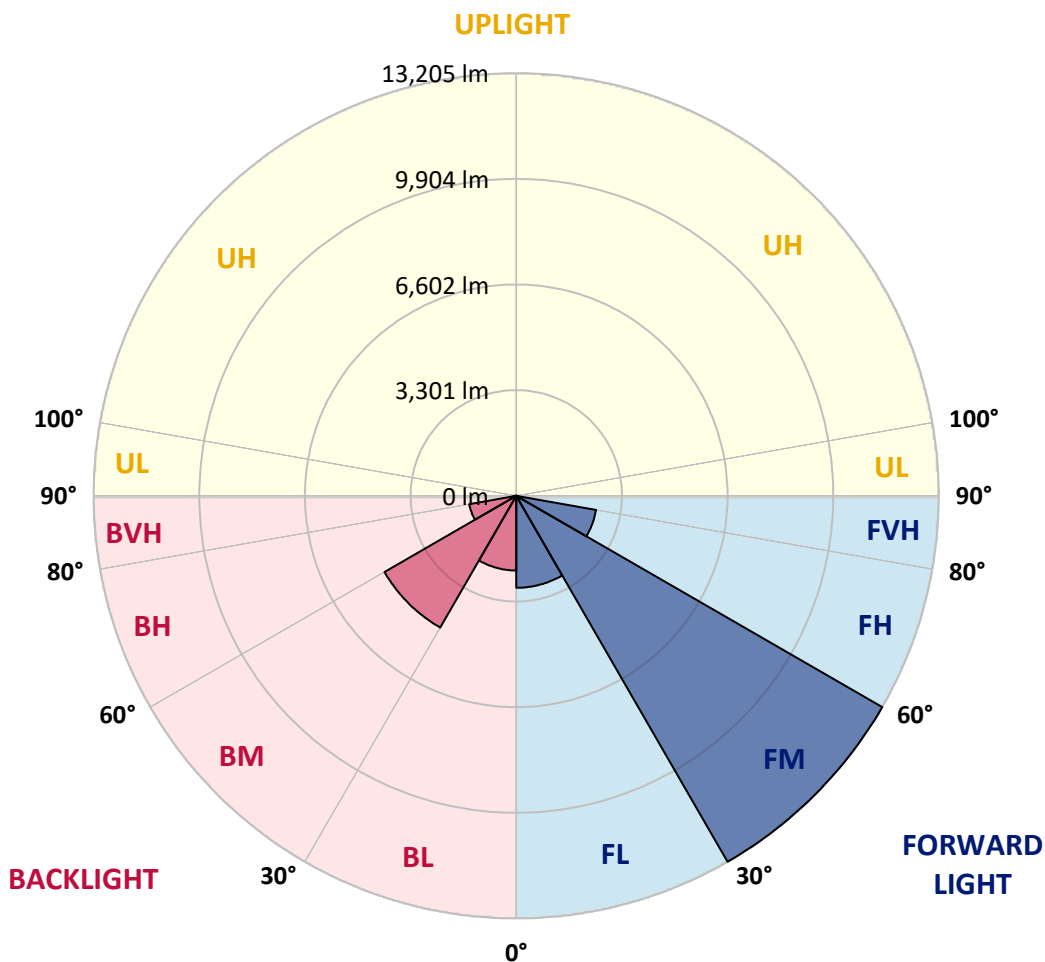


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.2	10.5			
FM (30°-60°)	13204.9	48.3			
FH (60°-80°)	2532.5	9.3			G2/5000
FVH (80°-90°)	63.4	0.2			G1/100
BL (0°-30°)	2332.5	8.5	B3/2500		
BM (30°-60°)	4754.2	17.4	B3/5000		
BH (60°-80°)	1490.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	86.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4
2.5°	5470.5	5460.0	5453.0	5508.8	5487.9	5491.4	5470.5	5491.4	5505.3	5473.9	5519.3
5°	5460.0	5491.4	5463.5	5480.9	5526.2	5512.3	5526.2	5568.1	5557.6	5547.2	5533.2
7.5°	5557.6	5561.1	5582.0	5589.0	5602.9	5589.0	5609.9	5648.3	5637.8	5578.5	5585.5
10°	5697.1	5704.1	5707.5	5745.9	5770.3	5773.8	5749.4	5714.5	5711.0	5791.2	5735.4
12.5°	5857.5	5840.0	5881.9	5895.8	5923.7	5955.1	5986.5	5913.3	5958.6	5962.1	5895.8
15°	6091.1	6108.5	6059.7	6059.7	6070.1	6073.6	6160.8	6125.9	6119.0	6080.6	6108.5
17.5°	6439.7	6321.2	6317.7	6268.9	6261.9	6289.8	6321.2	6349.1	6443.2	6366.5	6216.6
20°	6694.2	6722.1	6621.0	6561.8	6572.2	6635.0	6603.6	6729.1	6795.4	6669.8	6523.4
22.5°	7144.0	7049.9	7074.3	6941.8	6952.3	7018.5	7015.0	7144.0	7182.4	6983.6	6771.0
25°	7447.3	7422.9	7443.9	7339.3	7353.2	7405.5	7489.2	7701.9	7639.1	7419.5	6927.8
27.5°	7890.1	7841.3	7823.9	7785.5	7771.6	7911.1	8008.7	8235.3	8190.0	7869.2	7206.8
30°	8343.4	8312.0	8329.5	8172.6	8228.3	8524.7	8552.6	8862.9	8842.0	8277.2	7517.1
32.5°	8657.2	8674.6	8706.0	8618.8	8866.4	9103.5	9197.6	9549.8	9567.2	8978.0	8116.8
35°	9162.7	9103.5	9120.9	9222.0	9337.1	9769.4	9922.8	10156.4	10302.9	9713.6	8692.1
37.5°	9480.0	9542.8	9469.6	9630.0	9929.8	10449.3	10588.8	10829.3	10982.7	10438.8	9476.5
40°	9975.1	9874.0	9926.3	10041.4	10348.2	11024.6	10986.2	11233.8	11282.6	11056.0	10208.7
42.5°	10508.6	10459.8	10386.5	10648.0	10906.0	11397.7	11474.4	11359.3	11606.8	11659.1	11254.7
45°	11146.6	11205.9	11216.3	11223.3	11449.9	11878.8	11774.2	11673.1	11959.0	12339.0	11903.2
47.5°	11739.3	11551.1	11687.0	11875.3	12196.1	12199.6	12321.6	12081.0	12384.4	12722.6	12489.0
50°	11938.1	11847.4	12028.7	12384.4	12879.5	12931.7	12945.7	12604.0	12760.9	13029.4	12691.2
52.5°	11861.4	11830.0	12293.7	12844.6	13569.8	13834.8	13904.5	13482.6	13569.8	13447.8	13137.5
55°	11495.3	11589.4	12056.6	13179.3	14291.5	15110.9	15243.4	14709.9	14155.5	14249.7	13908.0
56°	10993.2	10829.3	11352.3	12799.3	14260.1	15525.8	15633.9	14967.9	14591.4	14469.3	13901.0
57.5°	9326.6	9113.9	9800.8	11516.2	13468.7	15368.9	15449.1	15076.0	14518.1	14270.6	12886.4
60°	5460.0	5564.6	6436.2	7942.4	10390.0	12600.5	12869.0	13140.9	12767.9	11659.1	9591.6
62.5°	2635.9	2569.6	3193.7	4553.5	6331.6	8043.6	7963.4	8726.9	9145.3	8284.1	6056.2
65°	1380.7	1373.7	1743.3	2485.9	3479.6	4225.7	4299.0	4710.4	5285.7	4267.6	3075.2
67.5°	1014.6	1042.5	1227.3	1746.8	2238.4	2283.7	2273.3	2479.0	2534.7	2144.3	1889.7
70°	794.9	808.9	944.9	1328.4	1666.6	1492.3	1460.9	1485.3	1649.2	1718.9	1635.2
72.5°	575.3	589.2	704.3	896.1	1042.5	1018.1	1039.0	1175.0	1377.2	1450.4	1363.3
75°	383.5	394.0	456.7	547.4	617.1	665.9	704.3	861.2	1049.5	1091.3	1049.5
77.5°	265.0	275.4	317.3	387.0	394.0	425.4	439.3	512.5	627.6	679.9	652.0
80°	149.9	149.9	170.8	198.7	244.1	285.9	292.9	352.1	404.4	439.3	446.3
82.5°	69.7	73.2	90.7	122.0	160.4	198.7	205.7	244.1	282.4	317.3	327.7
85°	34.9	38.4	52.3	73.2	97.6	118.5	115.1	118.5	125.5	118.5	122.0
87.5°	10.5	10.5	13.9	17.4	13.9	17.4	17.4	20.9	24.4	27.9	31.4
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°	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4	5491.4
2.5°	5522.8	5533.2	5463.5	5529.7	5505.3	5501.8	5550.6	5543.7	5561.1	5554.1	5512.3
5°	5526.2	5501.8	5575.1	5508.8	5540.2	5606.4	5561.1	5665.7	5613.4	5648.3	5571.6
7.5°	5634.3	5641.3	5627.4	5655.2	5641.3	5672.7	5648.3	5672.7	5630.8	5634.3	5704.1
10°	5728.5	5707.5	5731.9	5697.1	5721.5	5711.0	5655.2	5637.8	5651.8	5634.3	5679.6
12.5°	5902.8	5864.4	5847.0	5805.2	5777.3	5672.7	5585.5	5536.7	5602.9	5613.4	5592.5
15°	6080.6	6084.1	6003.9	5909.8	5735.4	5578.5	5599.5	5616.9	5616.9	5644.8	5592.5
17.5°	6192.2	6192.2	6119.0	5930.7	5752.9	5662.2	5641.3	5585.5	5536.7	5529.7	5526.2
20°	6387.4	6328.2	6160.8	5927.2	5745.9	5704.1	5547.2	5414.7	5313.6	5278.7	5275.2
22.5°	6610.6	6460.6	6227.0	5934.2	5735.4	5676.2	5383.3	5184.6	5003.3	4926.5	4937.0
25°	6816.3	6575.7	6265.4	5902.8	5697.1	5411.2	5083.4	4808.0	4619.7	4557.0	4525.6
27.5°	6959.2	6697.7	6265.4	5930.7	5554.1	5114.8	4780.1	4428.0	4264.1	4222.3	4229.2
30°	7151.0	6851.1	6373.5	5871.4	5268.2	4731.3	4330.3	4100.2	4002.6	3967.7	3992.1
32.5°	7600.8	7252.1	6523.4	5728.5	4930.0	4347.8	4023.5	3894.5	3751.6	3681.8	3657.4
35°	8088.9	7632.1	6669.8	5487.9	4550.0	3999.1	3796.9	3678.3	3507.5	3430.8	3444.7
37.5°	8779.2	8120.3	6680.3	5090.4	4138.6	3803.9	3619.1	3434.3	3294.8	3176.3	3141.4
40°	9710.1	8786.2	6655.9	4672.0	3807.4	3573.8	3437.8	3207.7	3050.8	2967.1	2984.5
42.5°	10529.5	9567.2	6554.8	4197.9	3507.5	3416.9	3263.4	3036.8	2883.4	2796.2	2789.3
45°	11219.8	10142.5	6363.0	3793.4	3256.5	3242.5	3064.7	2890.4	2768.3	2688.2	2723.0
47.5°	11857.9	10606.2	6073.6	3389.0	3026.4	3054.2	2883.4	2775.3	2698.6	2625.4	2621.9
50°	12088.0	10599.2	5819.1	3054.2	2841.6	2827.6	2820.6	2705.6	2625.4	2562.6	2590.5
52.5°	12471.5	10717.8	5543.7	2824.1	2674.2	2677.7	2702.1	2618.4	2527.8	2489.4	2524.3
55°	13022.4	10735.2	4937.0	2555.7	2534.7	2559.2	2559.2	2503.4	2426.7	2395.3	2377.9
56°	12572.6	10215.7	4428.0	2485.9	2465.0	2465.0	2531.3	2468.5	2374.4	2350.0	2329.0
57.5°	11596.4	8950.1	3706.2	2402.3	2370.9	2419.7	2454.6	2388.3	2301.1	2266.3	2287.2
60°	7998.2	6056.2	2785.8	2221.0	2221.0	2301.1	2329.0	2231.4	2193.1	2189.6	2161.7
62.5°	4668.5	3528.4	2179.1	2057.1	2064.1	2130.3	2151.2	2095.4	2046.6	2105.9	2133.8
65°	2475.5	2105.9	1868.8	1882.8	1886.2	1938.5	2029.2	2025.7	2022.2	2039.7	2043.1
67.5°	1792.1	1750.3	1698.0	1684.0	1691.0	1729.3	1820.0	1889.7	1886.2	1844.4	1813.0
70°	1596.9	1537.6	1506.2	1509.7	1481.8	1527.1	1600.3	1645.7	1565.5	1516.7	1495.7
72.5°	1328.4	1311.0	1290.0	1293.5	1237.7	1227.3	1143.6	1143.6	1122.7	1108.7	1133.1
75°	1014.6	1007.6	1018.1	1000.7	941.4	878.6	829.8	784.5	714.8	686.9	672.9
77.5°	641.5	662.5	686.9	648.5	624.1	578.8	530.0	484.6	428.9	397.5	397.5
80°	435.8	453.3	470.7	463.7	435.8	394.0	355.6	306.8	268.5	244.1	240.6
82.5°	331.2	345.2	369.6	341.7	313.8	278.9	247.5	212.7	177.8	149.9	149.9
85°	118.5	136.0	149.9	163.9	174.3	177.8	153.4	125.5	101.1	80.2	76.7
87.5°	31.4	34.9	38.4	34.9	34.9	34.9	38.4	34.9	31.4	24.4	24.4
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)