

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: P530092

Luminaire Tested: **GALN-SA5B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23173 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

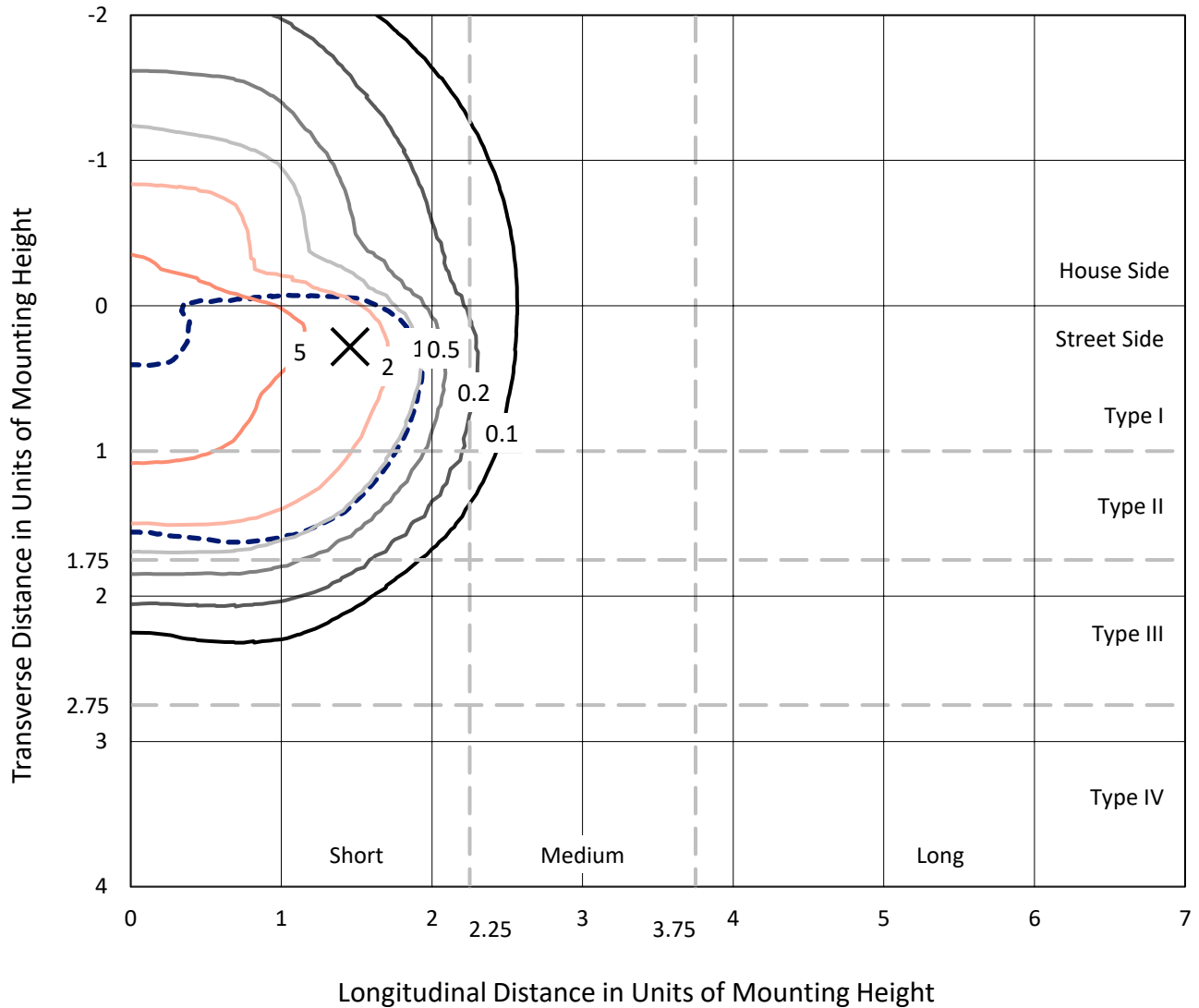
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

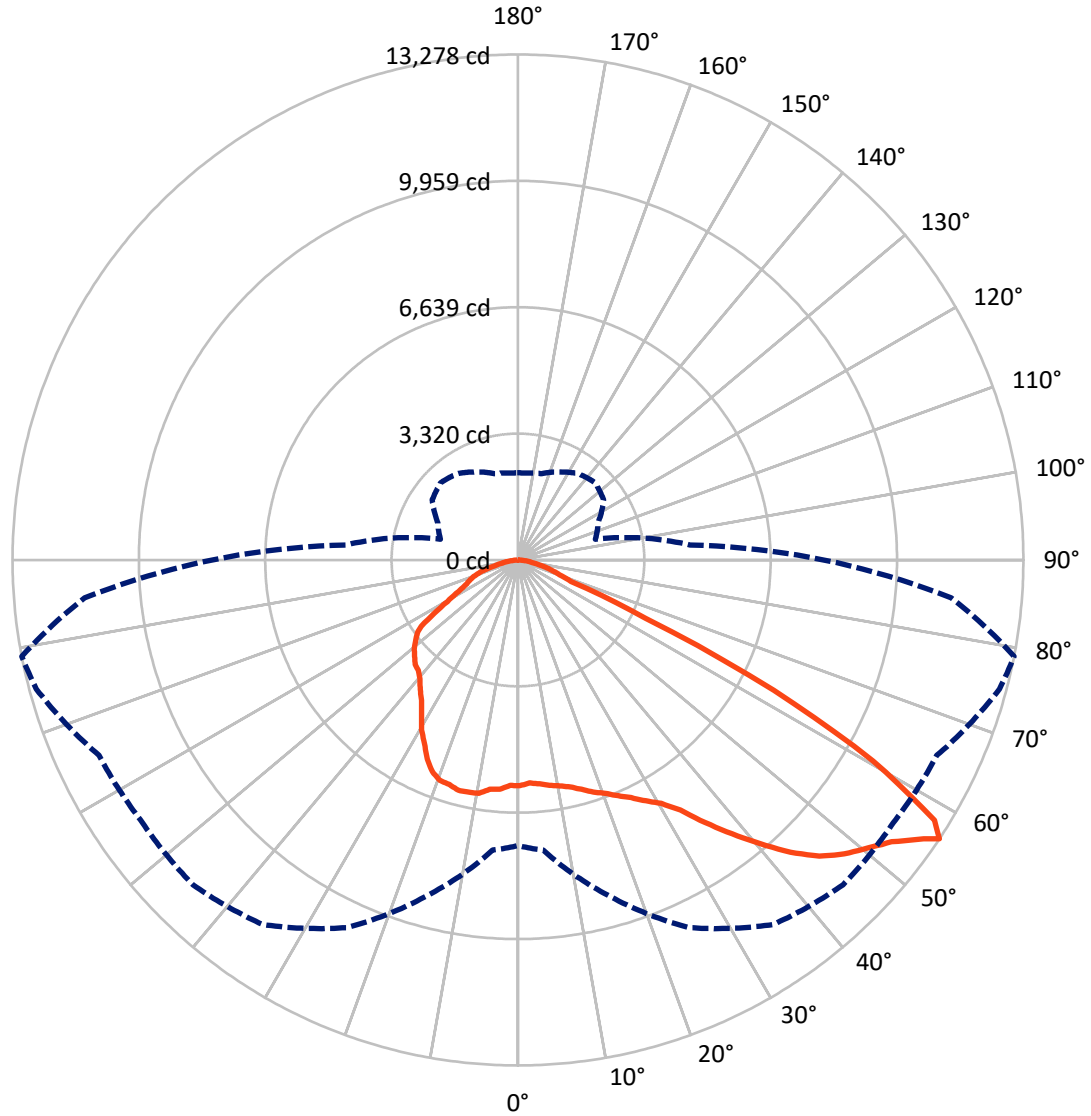
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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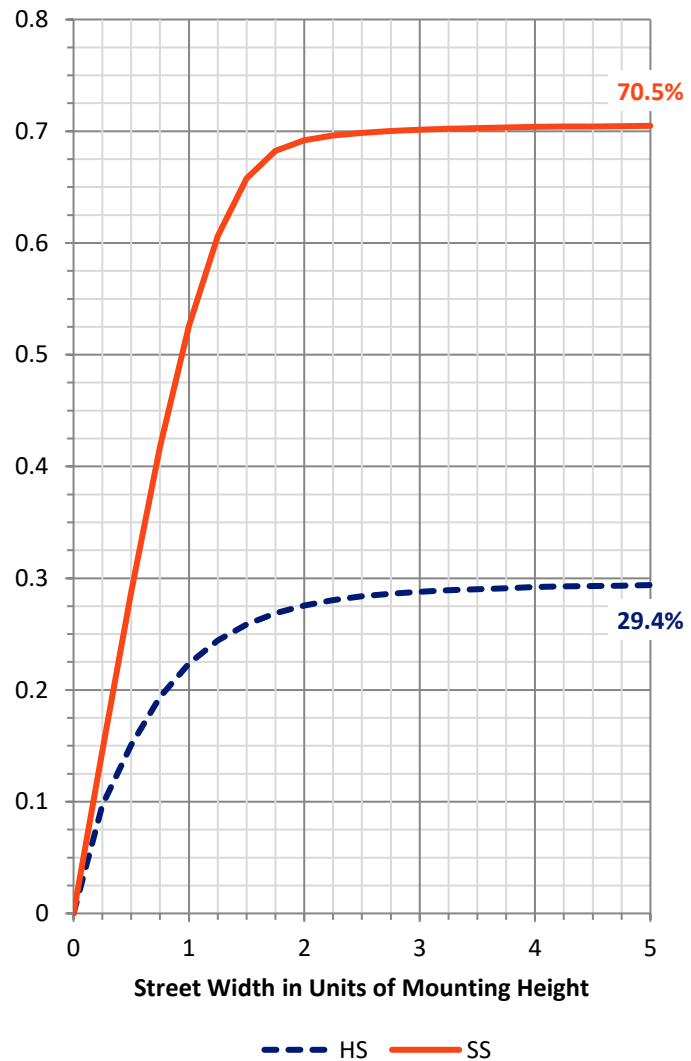
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6843.5	0.0	6843.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16329.5	0.0	16329.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	23173.0	0.0	23173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.1	2.3
10°-20°	1475.3	6.4
20°-30°	2523.9	10.9
30°-40°	3868.2	16.7
40°-50°	5227.8	22.6
50°-60°	6004.3	25.9
60°-70°	2737.0	11.8
70°-80°	674.8	2.9
80°-90°	122.6	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°	23173.0	100.0
0°-180°	23173.0	100.0



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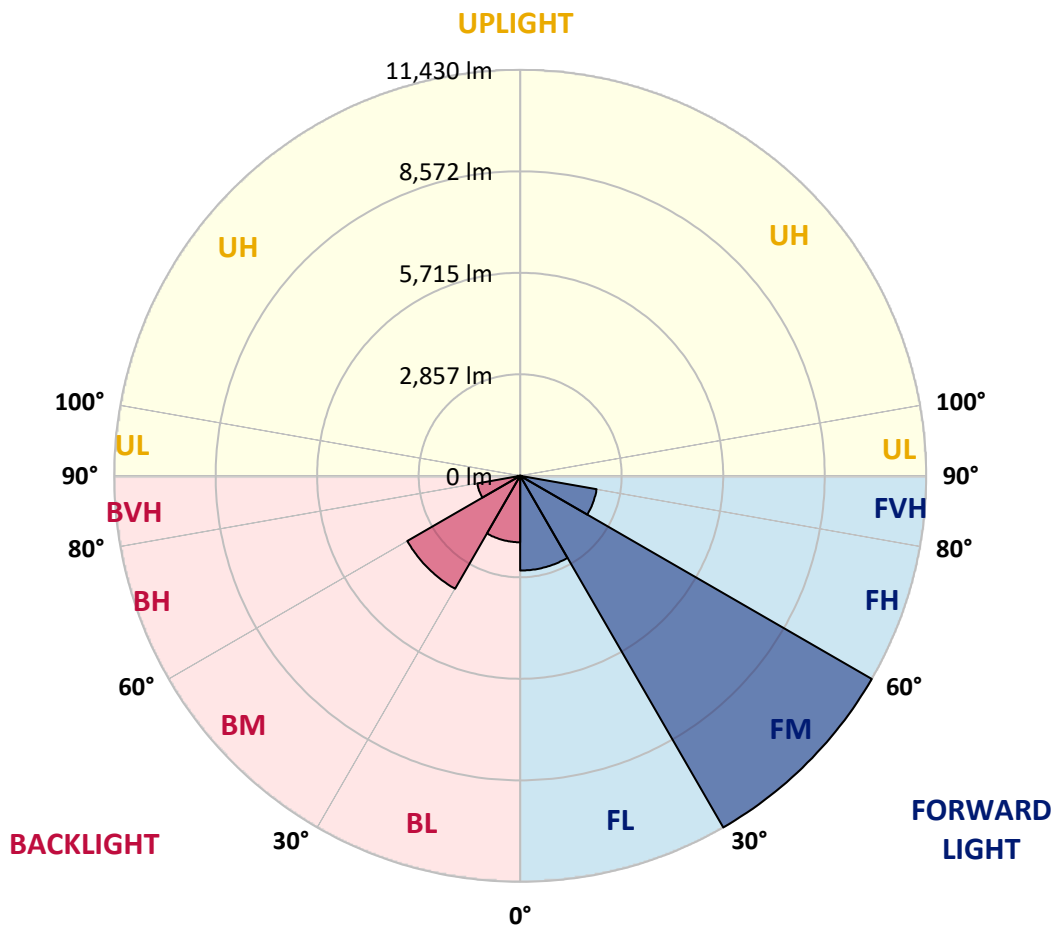
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.2	11.5			
FM (30°-60°)	11429.6	49.3			
FH (60°-80°)	2184.7	9.4			G2/5000
FVH (80°-90°)	49.0	0.2			G1/100
BL (0°-30°)	1872.0	8.1	B3/2500		
BM (30°-60°)	3670.8	15.8	B3/5000		
BH (60°-80°)	1227.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	73.7	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°	55°	65°	75°	79°	85°
0°	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1
2.5°	5640.4	5626.0	5660.6	5686.6	5718.3	5758.7	5779.0	5790.5	5891.5	5865.5	5943.5
5°	5519.2	5481.6	5507.6	5527.8	5582.7	5631.7	5686.6	5773.2	5865.5	5906.0	6001.2
7.5°	5412.4	5392.1	5386.4	5400.8	5475.9	5539.4	5634.6	5761.6	5911.7	5978.1	6033.0
10°	5236.3	5207.4	5250.7	5346.0	5366.2	5499.0	5608.6	5790.5	5920.4	6035.9	6197.5
12.5°	5158.3	5129.5	5138.1	5193.0	5334.4	5461.4	5591.3	5796.3	6070.5	6116.7	6333.2
15°	5282.5	5253.6	5262.3	5247.8	5383.5	5449.9	5654.8	5911.7	6174.4	6252.4	6483.3
17.5°	5565.3	5568.2	5530.7	5499.0	5467.2	5608.6	5750.1	5981.0	6214.8	6411.1	6584.3
20°	6105.1	6009.9	5934.8	5755.9	5706.8	5767.4	5946.4	6168.6	6379.4	6541.0	6737.3
22.5°	6520.8	6529.5	6422.7	6128.2	6021.4	6047.4	6200.4	6382.2	6613.2	6728.6	6953.8
25°	7124.1	7063.5	6948.0	6714.2	6474.6	6494.8	6607.4	6771.9	6835.4	6916.3	7161.6
27.5°	7675.4	7692.8	7464.7	7245.3	6948.0	6890.3	7092.3	7121.2	7014.4	7167.4	7251.1
30°	8235.4	8221.0	8070.9	7814.0	7522.4	7534.0	7623.5	7482.0	7334.8	7418.5	7476.3
32.5°	8815.6	8651.1	8645.3	8414.4	8192.1	8085.3	7975.6	8044.9	7816.9	7834.2	7779.4
35°	9280.4	9303.5	9170.7	9006.2	8896.5	8708.8	8408.6	8532.8	8489.5	8469.3	8232.6
37.5°	9618.1	9528.6	9595.0	9540.2	9436.3	9202.4	8890.7	9009.0	9029.2	9127.4	8853.2
40°	9895.2	9857.7	10033.8	10062.6	9990.5	9485.3	8925.3	9277.5	9580.6	9794.2	9468.0
42.5°	10028.0	10108.8	10293.6	10515.8	10354.2	9814.4	9104.3	9482.4	10157.9	10495.6	10051.1
45°	10207.0	10103.1	10377.3	10784.3	10787.2	10091.5	9277.5	9759.6	10608.2	11098.9	10449.5
47.5°	10025.1	10077.1	10360.0	10876.7	11009.4	10383.1	9745.1	10152.1	11104.7	11540.6	10818.9
50°	9618.1	9722.0	10238.7	10775.6	11176.9	10691.9	10282.0	10576.5	11563.7	11895.6	10879.6
52.5°	9193.8	9251.5	10059.8	10853.6	11251.9	11090.3	11000.8	11162.4	12123.7	12296.9	10954.6
55°	8039.1	8313.4	9468.0	10818.9	11618.5	11809.0	11739.8	11976.5	12758.7	12931.9	11364.5
56°	7505.1	7649.5	9113.0	10657.3	11690.7	12071.7	12037.1	12143.9	13096.5	13278.3	11428.0
57.5°	6517.9	6529.5	7770.7	9941.4	11419.3	12149.7	12115.0	12198.7	13030.1	12905.9	10870.9
60°	4078.7	4257.7	5288.2	7646.6	9710.5	11272.1	11468.4	10795.8	10986.4	10723.7	8457.7
62.5°	2113.0	2087.0	2771.1	4471.3	6445.8	8070.9	8252.8	8221.0	7926.6	7542.7	5524.9
65°	1053.6	1059.4	1449.1	2214.0	3302.3	4226.0	4734.0	4788.9	4006.6	3686.2	2621.0
67.5°	764.9	793.8	1042.1	1353.8	1555.9	1740.6	2133.2	2092.8	1584.7	1506.8	1397.1
70°	594.6	620.6	845.8	1033.4	938.1	938.1	1021.9	1056.5	1128.7	1160.4	1197.9
72.5°	433.0	453.2	646.6	713.0	614.8	661.0	764.9	845.8	920.8	932.4	975.7
75°	297.3	314.6	424.3	392.6	369.5	456.1	560.0	635.0	689.9	718.8	744.7
77.5°	193.4	199.2	242.5	204.9	236.7	294.4	363.7	427.2	482.1	505.2	510.9
80°	86.6	95.3	103.9	129.9	164.5	210.7	259.8	311.8	346.4	355.1	372.4
82.5°	49.1	49.1	63.5	92.4	121.2	153.0	187.6	225.2	265.6	274.2	271.3
85°	26.0	26.0	37.5	54.8	75.1	89.5	86.6	89.5	95.3	109.7	106.8
87.5°	8.7	8.7	11.5	11.5	14.4	17.3	14.4	20.2	26.0	26.0	26.0
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°	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1
2.5°	5920.4	5946.4	5911.7	5986.8	5986.8	5972.4	5900.2	5923.3	5940.6	5940.6	5955.0
5°	6033.0	6024.3	6047.4	5957.9	5903.1	5882.9	5764.5	5706.8	5657.7	5654.8	5611.5
7.5°	6096.5	6073.4	6064.7	5998.3	5755.9	5608.6	5354.6	5207.4	5175.7	5063.1	5106.4
10°	6197.5	6240.8	6197.5	5836.7	5499.0	5161.2	4913.0	4684.9	4595.4	4523.3	4480.0
12.5°	6405.3	6385.1	6134.0	5646.2	5172.8	4771.5	4402.0	4162.5	4073.0	4009.5	4003.7
15°	6581.4	6480.4	6096.5	5346.0	4664.7	4237.5	3934.4	3764.1	3723.7	3729.5	3755.5
17.5°	6642.0	6572.8	5900.2	5034.2	4286.6	3784.3	3642.9	3616.9	3654.4	3697.7	3709.3
20°	6737.3	6627.6	5819.4	4609.9	3819.0	3501.4	3492.8	3585.1	3654.4	3717.9	3726.6
22.5°	6936.5	6659.4	5556.7	4208.6	3498.5	3417.7	3501.4	3579.4	3686.2	3738.1	3691.9
25°	6994.2	6590.1	5187.2	3726.6	3296.5	3365.8	3455.2	3562.1	3637.1	3666.0	3686.2
27.5°	7043.3	6483.3	4687.8	3406.2	3233.0	3362.9	3455.2	3544.7	3585.1	3611.1	3634.2
30°	7181.8	6451.5	4254.8	3192.6	3192.6	3305.1	3423.5	3446.6	3501.4	3533.2	3573.6
32.5°	7251.1	6232.1	3810.3	3056.9	3152.2	3334.0	3342.7	3386.0	3388.9	3414.8	3371.5
35°	7433.0	6076.3	3397.5	2958.8	3169.5	3305.1	3348.4	3322.5	3181.0	3111.7	3126.2
37.5°	7565.7	5998.3	3100.2	2947.2	3172.4	3336.9	3360.0	3163.7	3016.5	2901.0	2929.9
40°	7923.7	5804.9	2875.0	2927.0	3198.3	3371.5	3308.0	3094.4	2828.9	2710.5	2690.3
42.5°	8197.9	5666.4	2733.6	2903.9	3218.5	3420.6	3282.1	2955.9	2684.5	2574.8	2603.7
45°	8515.4	5634.6	2658.5	2909.7	3253.2	3446.6	3250.3	2849.1	2560.4	2517.1	2508.4
47.5°	8628.0	5406.6	2577.7	2860.6	3244.5	3437.9	3143.5	2768.2	2514.2	2520.0	2543.1
50°	8440.4	5172.8	2517.1	2759.6	3186.8	3360.0	2976.1	2661.4	2488.2	2560.4	2600.8
52.5°	8200.8	4933.2	2393.0	2623.9	3068.4	3238.8	2898.1	2655.7	2462.3	2439.2	2447.8
55°	8273.0	4736.9	2219.8	2439.2	2877.9	3013.6	2811.5	2600.8	2398.8	2312.2	2341.0
56°	8039.1	4534.8	2107.2	2323.7	2748.0	2869.3	2768.2	2551.7	2346.8	2289.1	2289.1
57.5°	7378.1	3856.5	1960.0	2139.0	2473.8	2618.1	2684.5	2522.9	2289.1	2188.0	2190.9
60°	5441.2	2742.3	1757.9	1884.9	2049.5	2164.9	2473.8	2442.1	2144.7	2075.5	2049.5
62.5°	3354.2	2003.3	1613.6	1662.7	1746.4	1841.6	2159.2	2211.1	1991.7	1916.7	1899.4
65°	1879.2	1532.8	1503.9	1524.1	1564.5	1613.6	1792.6	1908.0	1757.9	1642.5	1636.7
67.5°	1374.0	1371.1	1394.2	1411.5	1428.9	1428.9	1472.2	1518.3	1498.1	1405.8	1397.1
70°	1221.0	1229.7	1247.0	1249.9	1255.7	1235.5	1200.8	1186.4	1209.5	1151.7	1140.2
72.5°	1007.4	1036.3	1056.5	1059.4	1027.6	1001.6	955.5	906.4	889.1	877.5	874.6
75°	773.6	793.8	802.5	799.6	788.0	750.5	695.7	646.6	614.8	580.2	597.5
77.5°	522.5	551.3	565.8	565.8	548.5	490.7	464.7	427.2	395.5	357.9	363.7
80°	366.6	386.8	409.9	407.0	378.1	349.3	311.8	277.1	251.1	222.3	219.4
82.5°	274.2	285.8	297.3	291.5	271.3	242.5	216.5	184.7	155.9	135.7	135.7
85°	98.1	106.8	129.9	135.7	147.2	147.2	124.1	103.9	83.7	69.3	69.3
87.5°	28.9	28.9	31.8	31.8	28.9	31.8	26.0	28.9	31.8	20.2	20.2
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)