

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: P651094

Luminaire Tested: **GALN-SA8C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29037.2 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

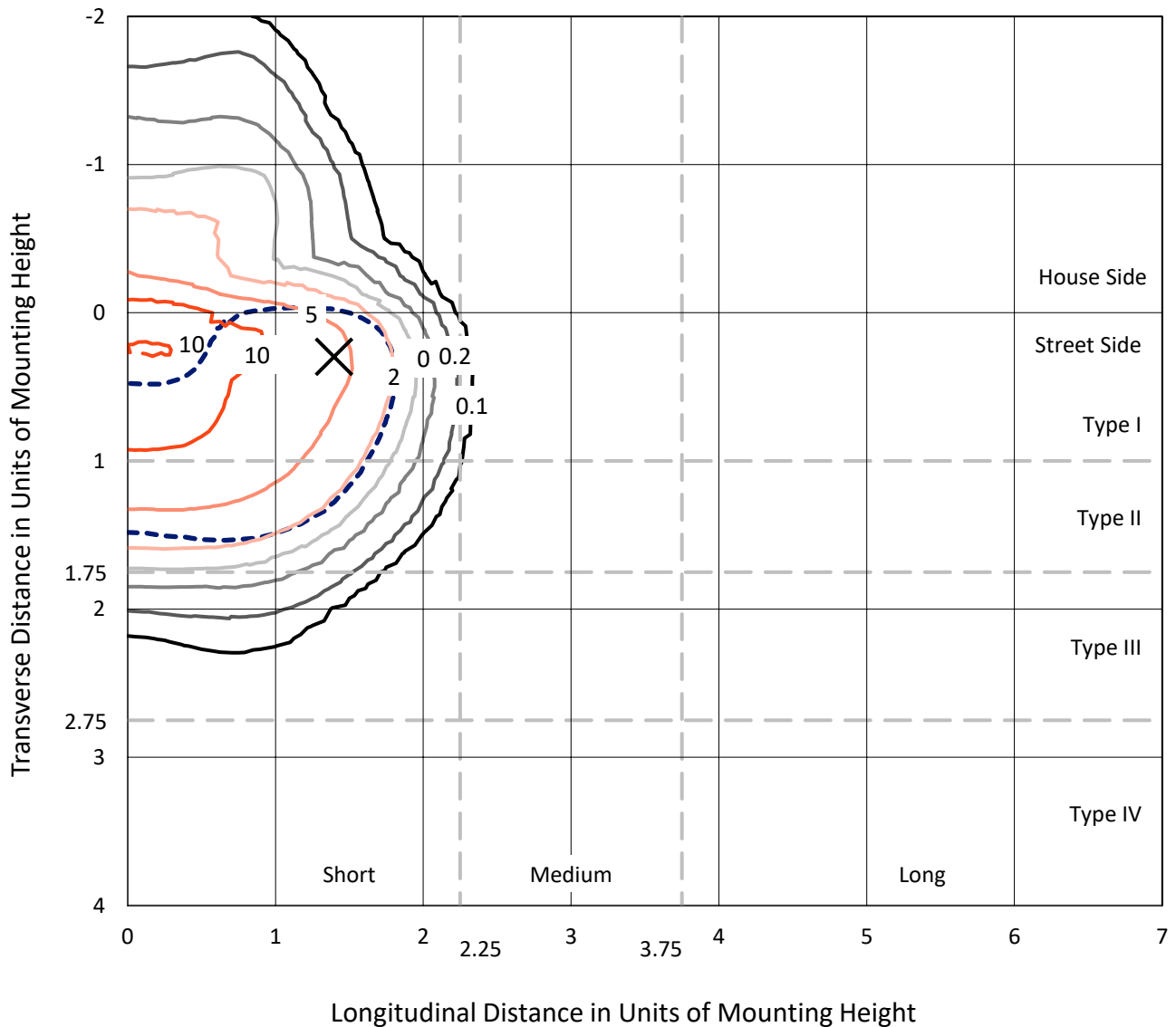
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

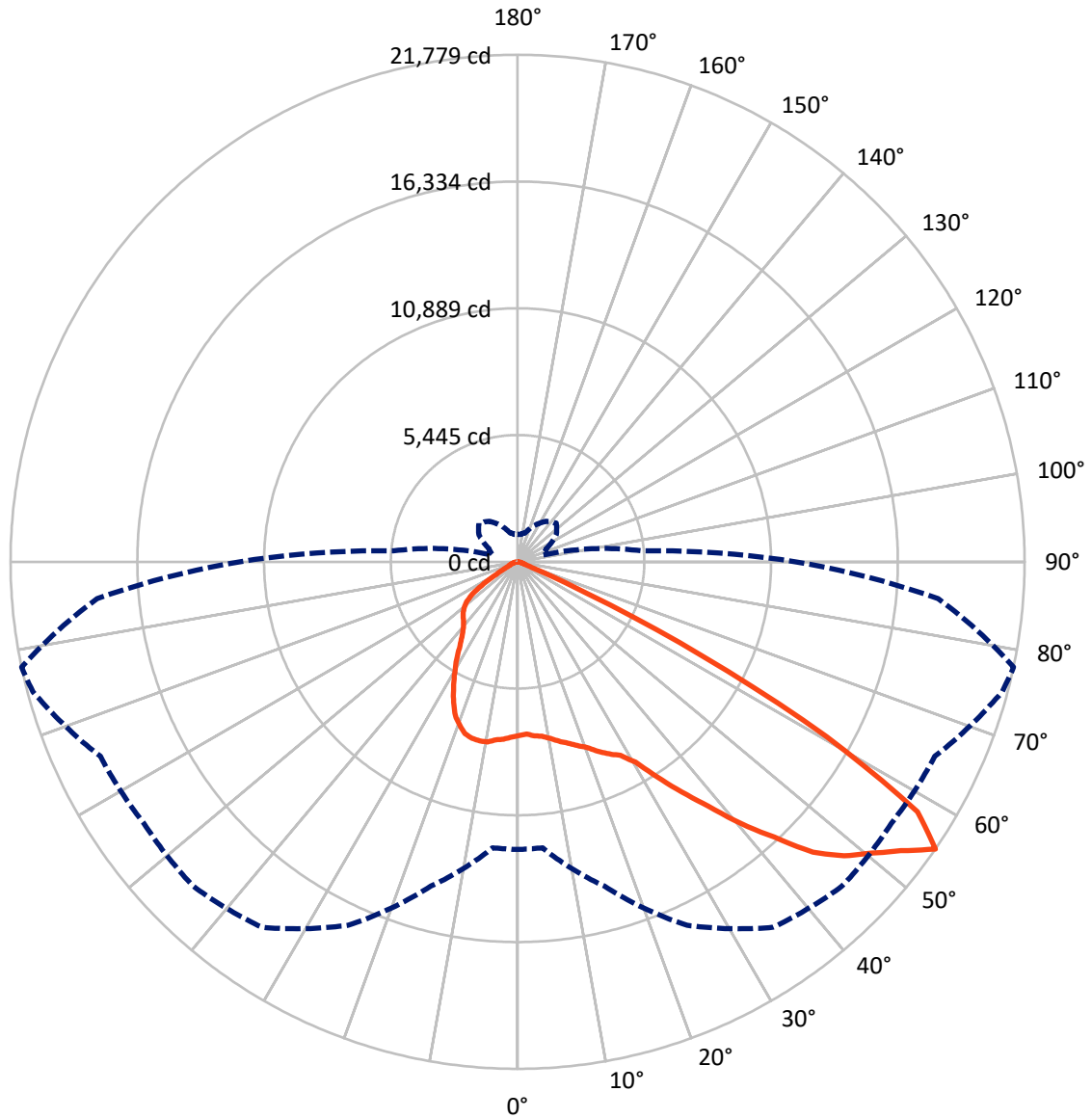
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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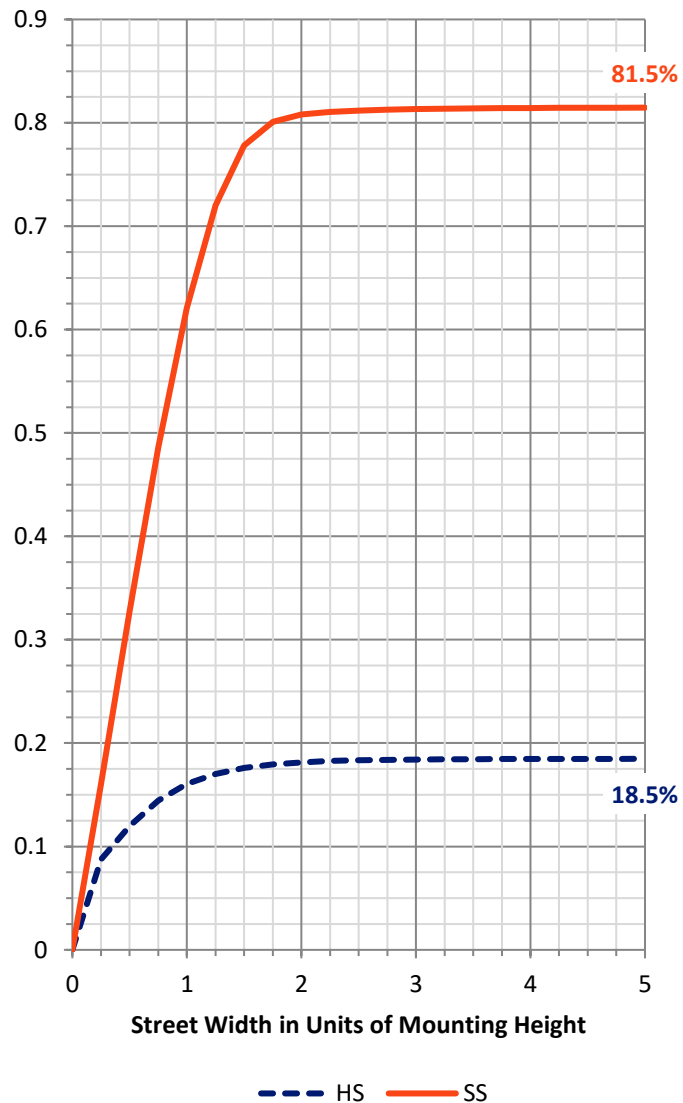
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5393.3	0.0	5393.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23643.8	0.0	23643.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	29037.2	0.0	29037.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.7	2.3
10°-20°	1761.7	6.1
20°-30°	3088.0	10.6
30°-40°	5091.8	17.5
40°-50°	7409.1	25.5
50°-60°	8395.3	28.9
60°-70°	2400.4	8.3
70°-80°	186.4	0.6
80°-90°	38.8	0.1
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°	29037.2	100.0
0°-180°	29037.2	100.0

Coefficient of Utilization



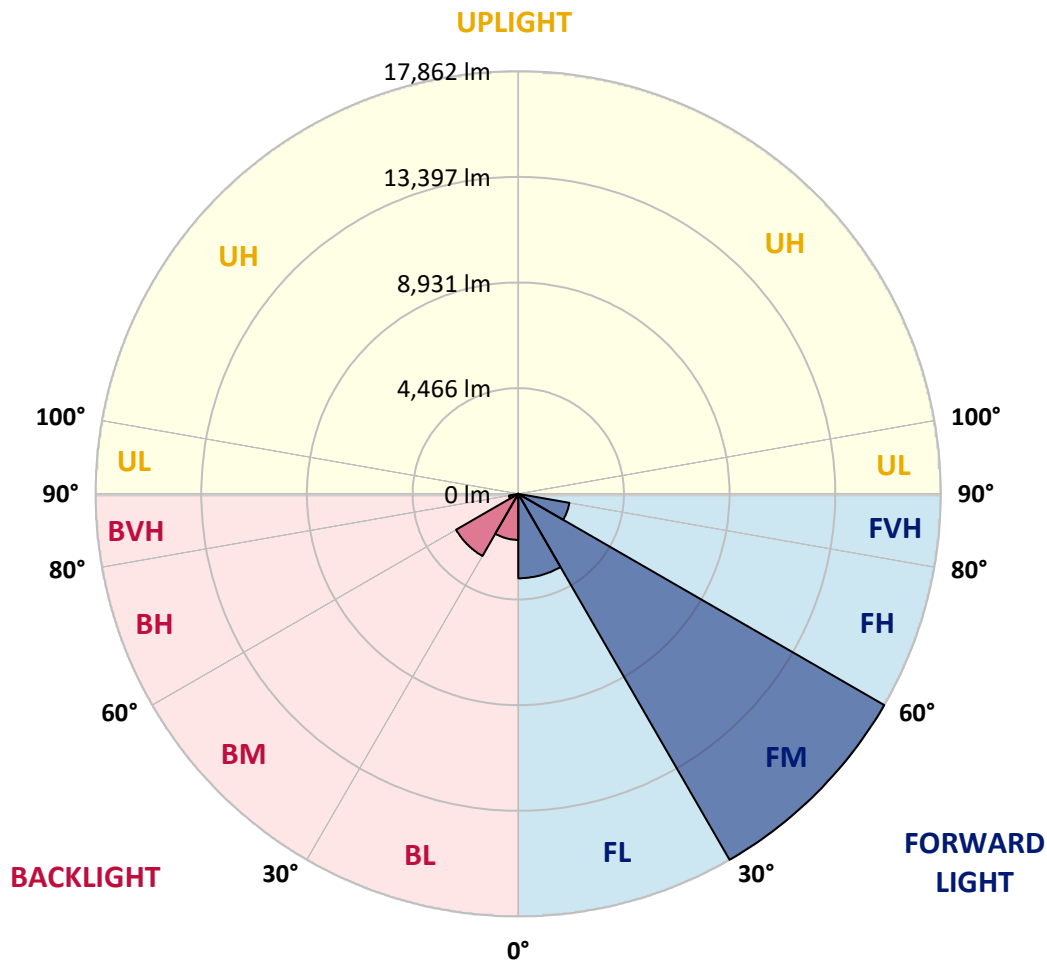
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3569.5	12.3			
FM	(30°-60°)	17862.4	61.5			
FH	(60°-80°)	2193.1	7.6			G2/5000
FVH	(80°-90°)	18.9	0.1			G1/100
BL	(0°-30°)	1945.9	6.7	B3/2500		
BM	(30°-60°)	3033.8	10.4	B3/5000		
BH	(60°-80°)	393.7	1.4	B1/500		G1/500
BVH	(80°-90°)	19.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5
2.5°	7019.0	7086.5	7096.9	7180.0	7174.7	7314.9	7356.5	7361.7	7455.1	7408.4	7527.8
5°	6821.7	6785.4	6769.8	6915.2	6956.7	7081.3	7185.2	7247.4	7439.5	7507.0	7631.7
7.5°	6645.2	6645.2	6655.6	6785.4	6769.8	6930.8	7039.8	7231.8	7512.2	7569.3	7719.9
10°	6473.9	6411.6	6489.5	6624.5	6738.7	6811.3	7039.8	7221.5	7548.6	7714.7	7922.3
12.5°	6385.6	6416.7	6427.2	6525.8	6650.4	6868.4	6993.1	7294.2	7808.1	7906.7	8130.0
15°	6941.1	6878.9	6728.3	6640.0	6743.9	6847.7	7159.2	7465.5	7943.1	8083.3	8332.5
17.5°	7584.9	7533.0	7408.4	7169.5	6936.0	7128.1	7372.0	7652.3	8088.5	8296.1	8664.7
20°	8425.9	8342.9	8218.3	7751.0	7548.6	7340.9	7600.5	7932.7	8327.2	8514.2	8893.2
22.5°	9427.9	9427.9	9147.6	8581.6	8161.1	7963.8	8072.9	8265.0	8592.1	8846.5	9220.2
25°	10471.4	10440.3	10185.9	9599.3	8887.9	8654.4	8778.9	8913.9	9002.1	9142.3	9391.5
27.5°	11665.4	11483.8	11161.9	10512.9	9884.8	9433.1	9568.1	9448.6	9339.6	9412.3	9770.6
30°	12475.3	12589.6	12179.4	11556.4	10964.6	10461.0	10487.0	10383.2	9884.8	9988.6	10201.4
32.5°	13316.4	13389.1	13160.6	12818.0	12226.1	11639.5	11426.7	11338.4	10964.6	11011.3	10803.7
35°	14017.3	14157.4	13955.0	13804.4	13633.0	13160.6	12574.0	12859.6	12257.3	12143.1	11603.2
37.5°	14661.0	14619.4	14858.3	14702.5	14666.2	14333.9	13690.2	13747.3	13342.4	13316.4	12693.4
40°	15237.2	15247.7	15574.7	15647.4	15502.1	14910.2	13975.7	14427.4	14754.4	14785.6	13986.1
42.5°	15714.9	15855.0	16135.4	16722.0	16504.0	15517.6	14271.6	14764.8	15979.7	16171.8	15211.3
45°	16130.2	16415.7	16763.6	17287.9	17163.4	16379.4	15008.8	15460.5	17287.9	17791.5	16363.8
47.5°	16156.2	16529.9	16909.0	17687.7	17843.4	16841.4	15772.0	16561.1	18326.2	18871.4	17204.8
50°	16052.3	16249.6	17007.6	17853.8	18206.8	17594.2	16841.4	17485.2	19333.4	19676.0	17630.6
52.5°	14822.0	14972.5	16493.6	18009.6	18861.0	18445.7	18258.8	18772.7	20361.4	20615.8	18030.4
55°	12356.0	12330.0	14422.2	17225.6	19162.1	19707.2	19593.0	19774.7	21550.2	21778.6	18129.0
57.5°	8451.9	8924.4	10731.0	14344.3	17319.0	19411.3	19530.7	19229.5	20164.1	20252.3	15803.1
60°	4558.2	4755.5	6209.1	9573.3	13186.6	15818.7	16130.2	15585.1	15512.4	15263.2	11281.3
62.5°	1811.9	1910.5	2735.9	4739.9	7185.2	9614.8	10284.5	10061.3	9583.6	8929.5	5840.5
65°	861.8	924.1	1360.2	2216.8	3187.6	4007.9	4677.6	4885.3	3602.9	3244.7	1926.1
67.5°	586.7	633.4	991.6	1266.7	1136.9	1188.8	1547.1	1438.0	846.2	721.7	534.7
70°	446.5	477.6	794.3	861.8	508.8	358.2	399.7	373.8	347.8	353.1	347.8
72.5°	316.7	342.6	581.5	508.8	223.2	166.1	212.9	254.4	254.4	254.4	249.2
75°	192.1	218.1	337.5	197.3	88.2	88.2	135.0	171.3	181.7	186.9	176.5
77.5°	98.6	124.6	114.2	57.1	57.1	67.5	98.6	119.4	129.8	129.8	124.6
80°	20.8	20.8	20.8	31.1	57.1	72.7	98.6	109.0	124.6	124.6	114.2
82.5°	0.0	5.2	15.6	31.1	51.9	67.5	93.4	109.0	124.6	129.8	119.4
85°	0.0	5.2	10.3	20.8	36.3	41.5	36.3	31.1	31.1	31.1	31.1
87.5°	0.0	0.0	5.2	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3
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°	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5	7465.5
2.5°	7538.1	7553.8	7527.8	7522.6	7501.8	7564.1	7413.6	7377.3	7470.7	7382.4	7403.2
5°	7636.8	7673.1	7626.4	7548.6	7434.4	7257.8	7107.3	6910.0	6816.6	6749.0	6738.7
7.5°	7709.4	7735.4	7688.8	7439.5	7096.9	6650.4	6318.2	6074.1	5882.0	5824.9	5731.5
10°	8005.4	8010.6	7777.0	7226.6	6556.9	5970.3	5461.5	5087.7	4895.6	4776.2	4724.3
12.5°	8202.7	8192.3	7719.9	6806.1	5913.2	5134.5	4553.0	4101.3	3924.9	3867.8	3831.3
15°	8451.9	8394.8	7584.9	6375.3	5082.6	4241.5	3717.1	3405.7	3390.1	3353.7	3390.1
17.5°	8649.2	8488.2	7387.6	5591.3	4288.3	3493.9	3151.3	3172.1	3213.5	3250.0	3255.1
20°	8971.0	8638.8	6936.0	4906.1	3551.0	2995.6	2990.3	3083.8	3187.6	3229.2	3270.7
22.5°	9215.0	8701.1	6453.2	4174.1	2948.8	2793.0	2881.4	3021.5	3099.3	3140.9	3203.2
25°	9303.3	8529.8	5809.4	3442.0	2658.1	2699.6	2834.6	2928.0	3026.7	3073.4	3047.4
27.5°	9391.5	8441.5	5041.0	2834.6	2502.3	2637.3	2751.5	2845.0	2876.1	2938.5	2980.0
30°	9604.4	8135.2	4350.6	2450.4	2424.4	2595.7	2678.8	2710.0	2793.0	2829.4	2829.4
32.5°	9775.7	8015.8	3618.5	2268.7	2414.1	2616.5	2626.9	2626.9	2637.3	2611.4	2601.0
35°	10128.8	7605.7	2964.4	2159.7	2408.9	2621.7	2647.7	2559.4	2320.7	2227.2	2201.2
37.5°	10564.9	7340.9	2481.5	2133.7	2445.2	2684.1	2725.6	2393.3	2081.8	1931.3	1905.3
40°	11094.4	7154.0	2164.9	2123.4	2528.3	2829.4	2704.8	2263.6	1858.6	1640.5	1630.2
42.5°	11712.2	6982.7	1952.0	2118.1	2632.2	2980.0	2684.1	2154.5	1630.2	1484.8	1505.6
45°	12205.3	6889.2	1806.6	2081.8	2668.5	3068.2	2699.6	1962.4	1536.7	1443.2	1453.7
47.5°	12589.6	6691.9	1687.3	2019.5	2663.3	3099.3	2559.4	1884.5	1490.0	1515.9	1541.9
50°	12599.9	6427.2	1536.7	1884.5	2585.4	3042.2	2398.5	1811.9	1479.6	1588.6	1640.5
52.5°	12459.8	6053.3	1375.8	1692.4	2403.7	2845.0	2253.1	1780.7	1432.9	1422.5	1484.8
55°	11961.4	5352.5	1105.8	1370.6	2029.9	2346.6	2123.4	1723.6	1292.7	1173.3	1183.7
57.5°	9666.7	3836.6	815.1	981.2	1438.0	1718.4	1915.7	1697.6	1162.9	996.8	1002.0
60°	5985.9	2175.2	597.0	669.7	887.8	1043.5	1552.3	1578.2	1038.3	841.0	830.7
62.5°	3073.4	1074.6	462.0	472.5	545.1	612.6	1064.3	1323.8	939.6	799.5	799.5
65°	1028.0	529.6	404.9	363.4	363.4	379.0	643.8	918.9	794.3	669.7	669.7
67.5°	441.3	394.6	353.1	316.7	290.7	275.2	363.4	534.7	591.8	508.8	488.0
70°	342.6	332.3	306.3	264.7	228.4	207.6	212.9	275.2	337.5	327.1	316.7
72.5°	254.4	254.4	244.0	207.6	176.5	150.5	140.2	145.3	161.0	166.1	171.3
75°	176.5	181.7	181.7	161.0	129.8	109.0	93.4	77.9	62.3	51.9	46.8
77.5°	119.4	124.6	135.0	119.4	98.6	72.7	57.1	41.5	26.0	10.3	10.3
80°	103.9	119.4	129.8	119.4	103.9	77.9	57.1	31.1	15.6	0.0	0.0
82.5°	109.0	119.4	135.0	114.2	98.6	72.7	57.1	36.3	15.6	5.2	0.0
85°	26.0	26.0	31.1	36.3	46.8	51.9	41.5	26.0	15.6	5.2	0.0
87.5°	10.3	10.3	10.3	10.3	10.3	5.2	5.2	5.2	5.2	0.0	0.0
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)