

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: P647673

Luminaire Tested: **GALN-SA9D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32391.9 lumens
Efficiency: N/A
Efficacy: 58.7 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

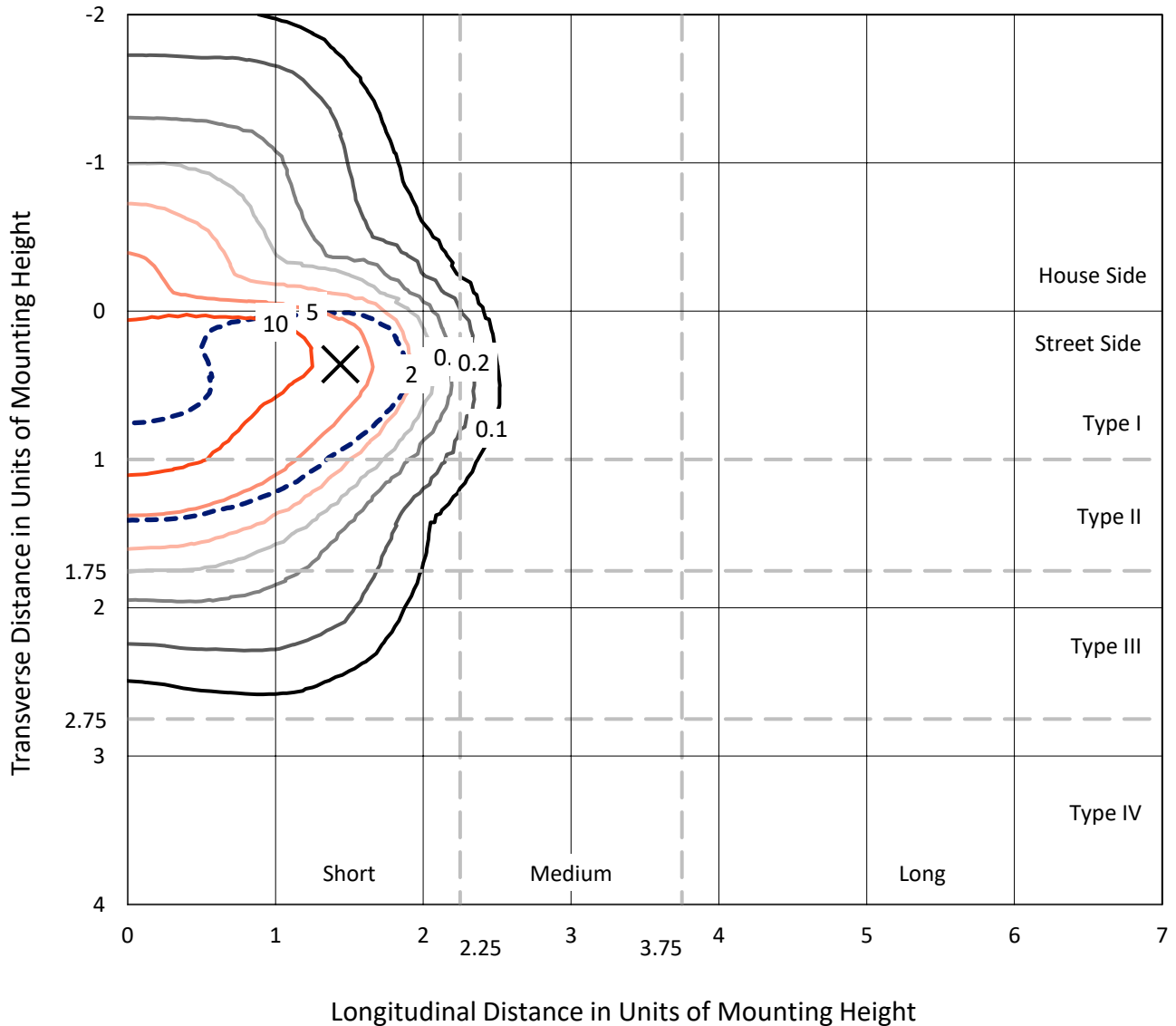
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

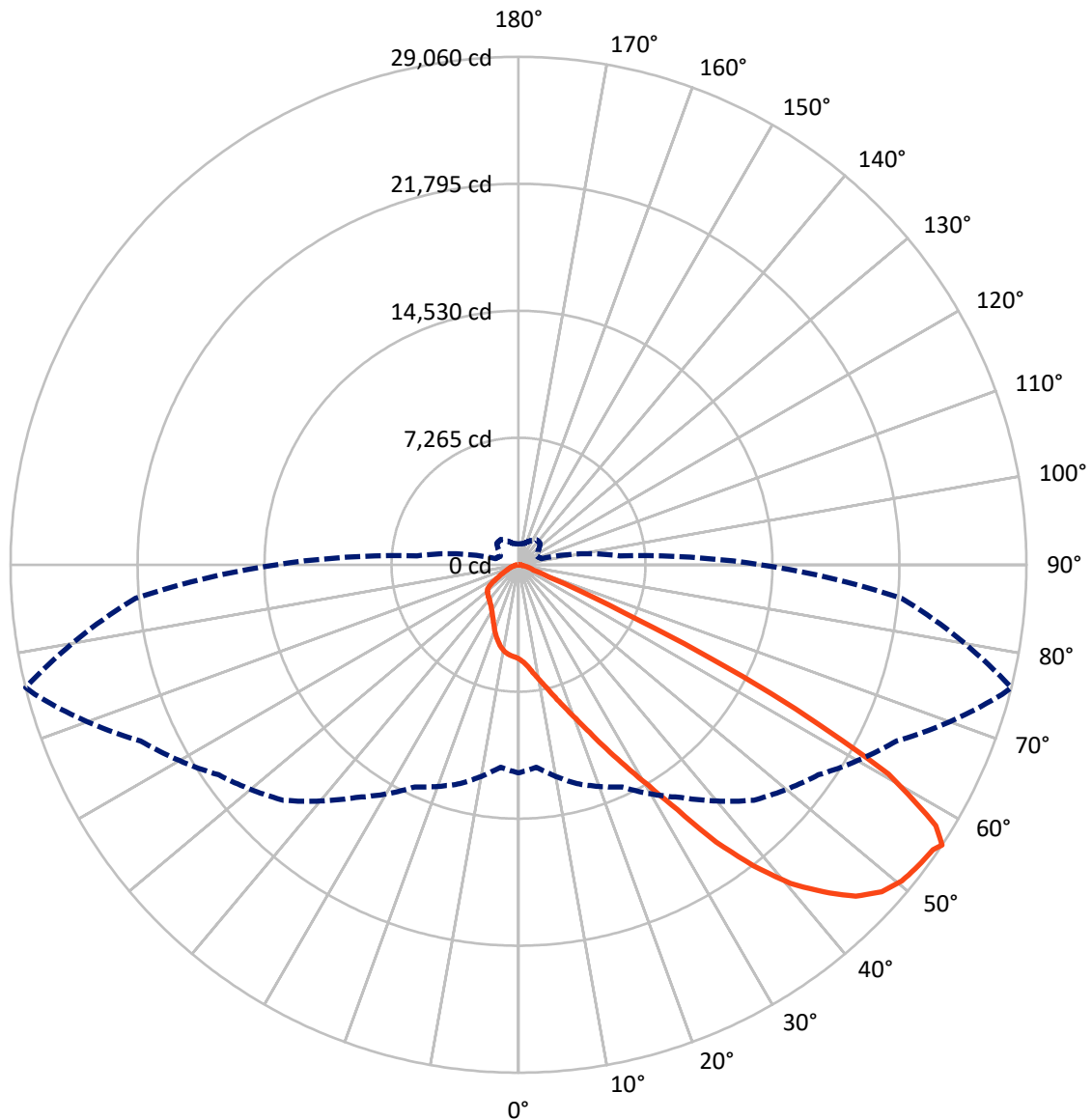
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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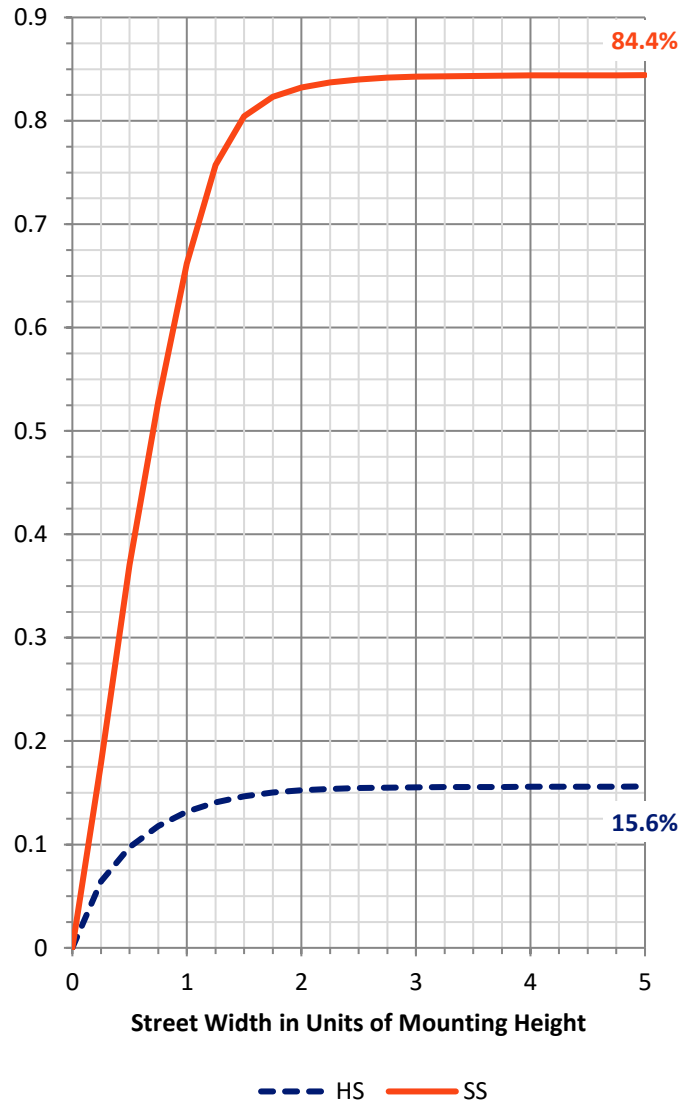
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5088.6	0.0	5088.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	27303.3	0.0	27303.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	32391.9	0.0	32391.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.1	1.7
10°-20°	1744.9	5.4
20°-30°	3164.0	9.8
30°-40°	5456.4	16.8
40°-50°	8864.1	27.4
50°-60°	9343.1	28.8
60°-70°	2854.7	8.8
70°-80°	366.0	1.1
80°-90°	55.6	0.2
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°	32391.9	100.0
0°-180°	32391.9	100.0

Coefficient of Utilization

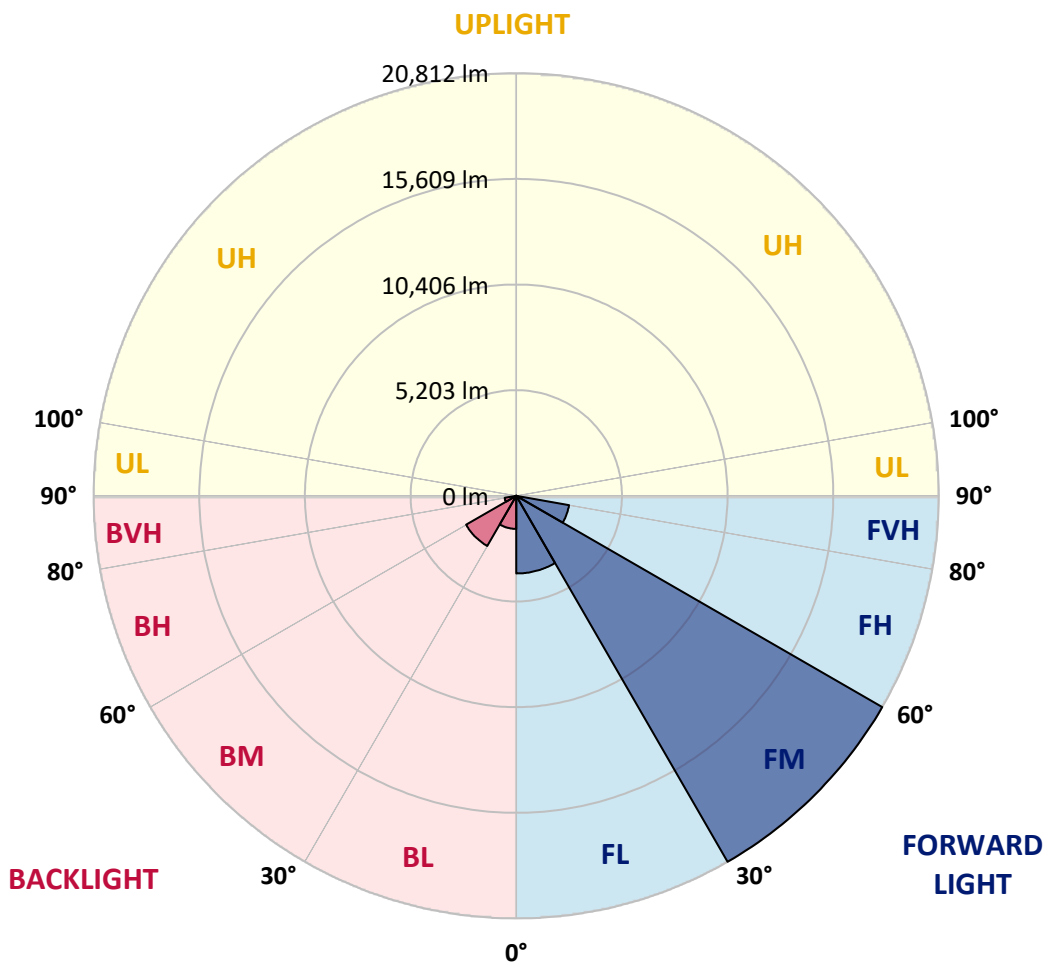


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3824.2	11.8			
FM (30°-60°)	20811.8	64.2			
FH (60°-80°)	2640.1	8.2			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	1627.8	5.0	B3/2500		
BM (30°-60°)	2851.9	8.8	B3/5000		
BH (60°-80°)	580.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	28.4	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°	76°	85°
0°	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7
2.5°	6209.7	6066.4	6072.4	6060.4	6042.5	5976.8	5779.8	5750.0	5618.6	5582.8	5463.3
5°	6956.0	6830.7	6902.3	6794.9	6693.3	6633.7	6311.2	6161.9	5952.9	5875.3	5708.1
7.5°	7421.7	7362.1	7338.2	7344.1	7248.6	7099.4	6956.0	6627.6	6347.0	6287.3	5935.1
10°	7648.7	7612.9	7648.7	7630.7	7672.5	7690.5	7439.7	7242.7	6830.7	6729.2	6179.8
12.5°	7702.4	7774.1	7803.9	7881.5	7983.1	8156.2	8138.3	7869.6	7320.3	7254.6	6556.0
15°	7833.8	7893.5	7863.6	7989.0	8180.1	8472.7	8627.9	8586.1	7995.0	7875.6	6991.9
17.5°	7953.2	7845.7	7947.2	8198.0	8389.1	8836.9	9213.0	9386.2	8729.4	8592.1	7391.9
20°	8114.4	8084.6	8066.6	8192.0	8532.4	9129.5	9875.8	10192.2	9553.4	9410.1	7965.1
22.5°	8604.0	8609.9	8598.0	8412.9	8657.7	9332.4	10455.0	11237.1	10538.6	10419.1	8616.0
25°	9248.9	9171.2	9111.5	8962.3	8932.4	9517.5	11040.1	12514.9	11720.8	11637.2	9320.5
27.5°	9929.5	9929.5	9750.4	9613.0	9422.0	9977.3	11577.5	13756.8	13147.8	13034.4	9935.5
30°	10669.9	10711.8	10687.9	10395.3	10275.9	10478.9	12126.8	15345.1	14783.8	14640.5	10950.6
32.5°	11762.6	11673.0	11774.5	11529.8	11177.5	11356.6	12992.6	16766.1	16909.4	16706.5	12282.1
35°	13207.6	13153.8	13088.2	12688.0	12270.1	12413.4	14216.6	18515.6	19578.4	19477.0	13625.5
37.5°	14503.2	14473.4	14419.6	14145.0	13661.3	13834.5	15607.9	20336.8	22181.8	21847.3	15524.2
40°	15864.6	16025.8	15852.6	15607.9	15166.0	15548.1	17243.9	21417.5	24373.1	23967.0	16975.1
42.5°	17709.6	17584.1	17661.8	17214.0	16975.1	17393.1	18885.8	22498.2	26074.8	25591.1	18515.6
45°	19674.0	19679.9	19470.9	19327.7	18706.7	19160.5	19894.9	23095.3	27430.1	27054.0	19679.9
47.5°	20933.8	20927.9	21154.8	21381.6	20742.8	20295.0	20581.5	23662.5	28128.7	27955.5	20103.9
50°	20736.8	20796.5	21089.1	21936.9	22271.3	21668.3	21226.4	23495.3	28445.1	28427.3	20468.1
52.5°	18038.0	18235.0	18724.6	19948.6	21632.4	22378.8	21901.1	23805.8	28600.4	28630.2	21011.4
55°	13733.0	13840.5	14771.9	16258.7	18121.5	20677.1	21632.4	24050.6	28719.8	28773.5	21668.3
56°	11911.9	11625.3	12968.7	14025.6	16252.7	19047.0	20951.7	23859.6	28648.2	29060.2	21996.7
57.5°	8992.1	8801.1	9887.7	11207.3	13350.9	16300.4	18838.0	22958.0	28164.5	28158.6	21524.9
60°	5469.3	5278.2	6114.1	6890.4	8090.5	10037.0	12729.9	18282.7	23811.8	24313.3	17429.0
62.5°	3254.1	3373.6	4197.5	4669.2	5057.3	5260.4	6585.9	10866.9	15888.5	16246.7	10813.2
65°	2167.4	2209.2	2830.2	3606.4	3779.5	3009.3	2680.9	4400.5	6890.4	6669.4	4460.2
67.5°	1337.4	1433.0	1898.7	2710.7	3003.4	2197.3	1271.8	1642.0	1898.7	1898.7	1289.7
70°	812.0	859.8	1265.8	1845.0	2059.9	1415.1	925.5	925.5	913.5	895.6	770.2
72.5°	388.1	418.0	644.9	949.4	967.2	746.4	716.5	782.2	764.3	758.3	638.8
75°	167.2	179.2	226.9	298.6	340.4	316.5	435.9	561.3	579.2	561.3	459.8
77.5°	53.7	59.7	83.6	107.5	113.5	137.3	185.1	232.9	268.7	250.8	226.9
80°	6.0	12.0	23.9	53.7	83.6	107.5	137.3	155.3	173.1	173.1	161.2
82.5°	6.0	6.0	23.9	47.8	77.6	101.5	131.4	149.2	173.1	179.2	167.2
85°	0.0	6.0	17.9	41.8	65.7	65.7	59.7	59.7	41.8	41.8	41.8
87.5°	0.0	0.0	6.0	6.0	6.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7	5391.7
2.5°	5439.4	5427.5	5266.3	5164.8	5111.0	5003.6	4937.9	4890.1	4854.3	4812.5	4818.5
5°	5511.1	5469.3	5200.6	5015.5	4794.6	4675.2	4573.7	4490.1	4436.3	4424.4	4400.5
7.5°	5714.1	5493.2	5087.2	4752.8	4472.2	4352.8	4263.2	4209.5	4233.4	4179.6	4221.4
10°	5869.4	5541.0	4949.8	4466.2	4185.6	4096.0	4048.3	4090.0	4149.7	4125.9	4096.0
12.5°	6060.4	5588.7	4728.9	4191.6	3928.9	3863.2	3946.7	4024.4	4143.8	4191.6	4131.8
15°	6275.4	5642.5	4448.3	3875.1	3707.9	3761.6	3905.0	4042.2	4161.7	4221.4	4257.2
17.5°	6538.1	5624.5	4173.6	3624.3	3498.9	3654.2	3827.3	3952.7	4131.8	4221.4	4197.5
20°	6782.9	5564.9	3869.1	3373.6	3379.5	3522.8	3666.1	3869.1	3964.6	4084.0	4042.2
22.5°	7015.8	5457.4	3552.6	3200.4	3200.4	3421.3	3493.0	3624.3	3707.9	3767.6	3761.6
25°	7344.1	5254.3	3289.9	3033.2	3104.8	3248.1	3307.9	3349.7	3313.8	3361.6	3367.5
27.5°	7577.0	5045.3	3075.0	2883.9	3015.3	3122.8	3104.8	3080.9	2997.4	2931.7	2973.5
30°	7827.8	4800.6	2889.9	2782.4	2854.0	2949.6	2877.9	2806.3	2675.0	2567.5	2573.4
32.5°	8186.0	4687.1	2728.7	2663.0	2758.5	2770.5	2692.9	2585.4	2454.0	2352.5	2346.6
35°	8854.8	4615.5	2591.3	2585.4	2603.3	2609.3	2531.7	2400.3	2346.6	2262.9	2292.8
37.5°	9523.6	4579.6	2495.8	2471.9	2466.0	2471.9	2382.4	2257.0	2358.5	2352.5	2364.4
40°	10377.3	4740.8	2358.5	2328.6	2334.6	2334.6	2221.1	2185.4	2364.4	2382.4	2388.3
42.5°	11243.1	4943.9	2268.9	2173.4	2197.3	2197.3	2137.6	2095.8	2221.1	2101.7	2083.8
45°	11995.5	5242.4	2173.4	2018.2	2077.8	2107.7	2089.8	2018.2	1940.5	1737.6	1737.6
47.5°	12240.2	5505.1	2059.9	1868.9	1916.6	2048.0	1994.3	1845.0	1707.6	1540.5	1528.6
50°	12670.2	5791.7	1970.4	1695.7	1797.2	1958.4	1904.7	1755.4	1600.2	1480.8	1486.8
52.5°	13112.0	6120.2	1803.2	1492.7	1618.1	1886.8	1886.8	1719.6	1480.8	1397.2	1385.2
55°	13774.8	6108.2	1504.7	1224.1	1444.9	1779.3	1809.2	1540.5	1325.5	1259.8	1259.8
56°	13870.3	5833.5	1355.4	1146.4	1367.4	1749.5	1755.4	1492.7	1265.8	1194.2	1194.2
57.5°	13153.8	5266.3	1188.2	1050.9	1271.8	1695.7	1701.7	1450.9	1218.0	1116.6	1104.6
60°	10120.6	3564.6	991.2	937.4	1152.3	1528.6	1558.4	1319.6	1068.8	991.2	985.2
62.5°	5714.1	1976.4	871.7	847.8	991.2	1301.7	1391.2	1152.3	907.6	865.8	877.7
65°	2609.3	1086.7	734.5	686.6	800.1	1003.1	1122.5	949.4	746.4	698.6	698.6
67.5°	955.3	740.4	626.9	543.3	561.3	650.8	728.4	615.0	495.6	423.9	441.8
70°	680.7	621.0	549.4	471.7	435.9	423.9	418.0	346.3	244.8	191.1	203.0
72.5°	549.4	513.5	459.8	400.0	340.4	286.6	244.8	179.2	113.5	77.6	71.6
75°	394.1	376.2	334.3	286.6	238.8	203.0	167.2	113.5	59.7	29.8	29.8
77.5°	203.0	203.0	197.0	179.2	149.2	119.4	95.5	65.7	35.9	12.0	12.0
80°	155.3	167.2	173.1	155.3	137.3	107.5	77.6	47.8	23.9	6.0	6.0
82.5°	149.2	173.1	185.1	161.2	137.3	101.5	77.6	47.8	23.9	6.0	6.0
85°	35.9	35.9	53.7	59.7	77.6	83.6	65.7	41.8	17.9	6.0	6.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	6.0	6.0	6.0	6.0	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)