

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: P647428

Luminaire Tested: **GALN-SA5D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27372.1 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

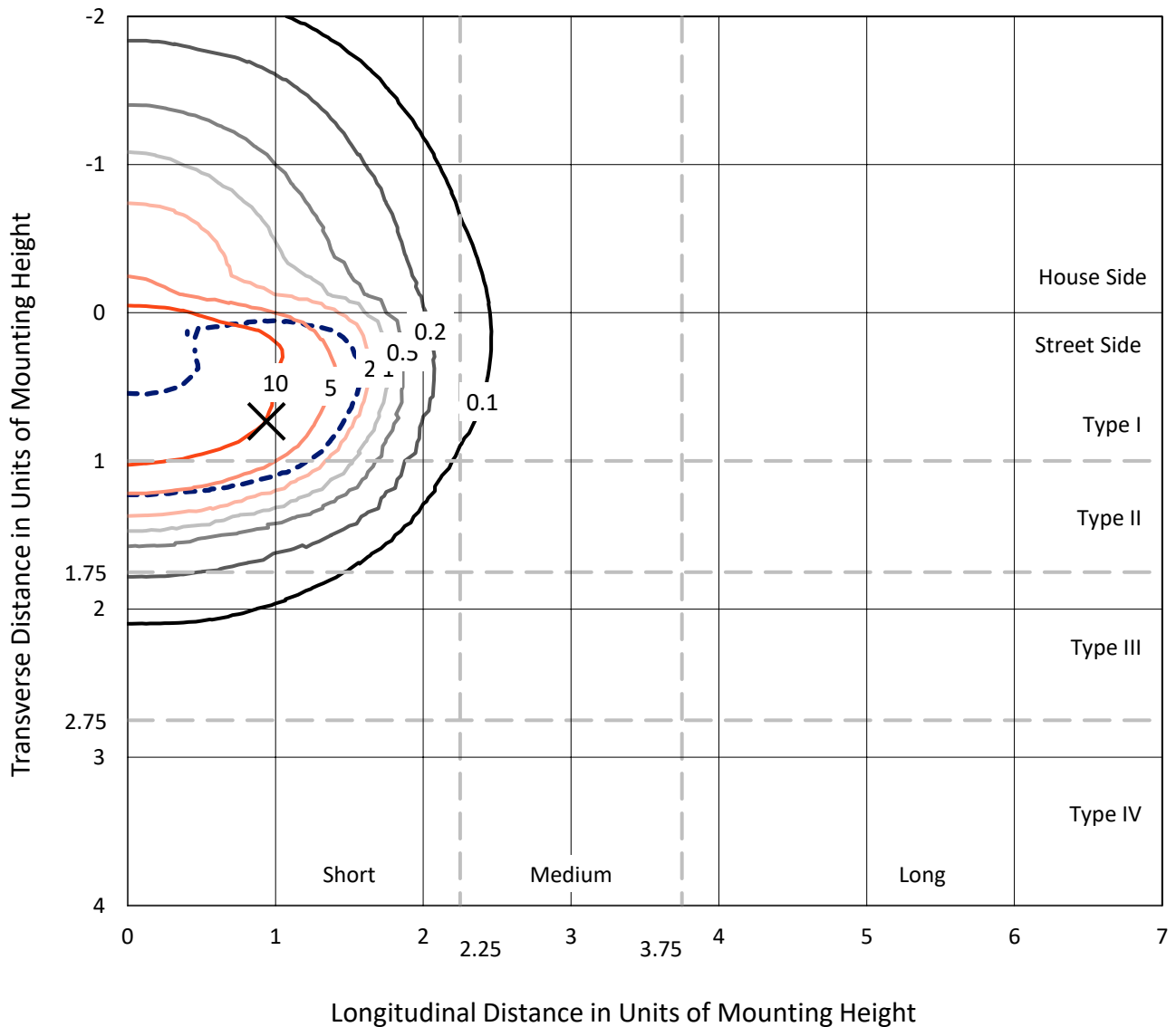
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

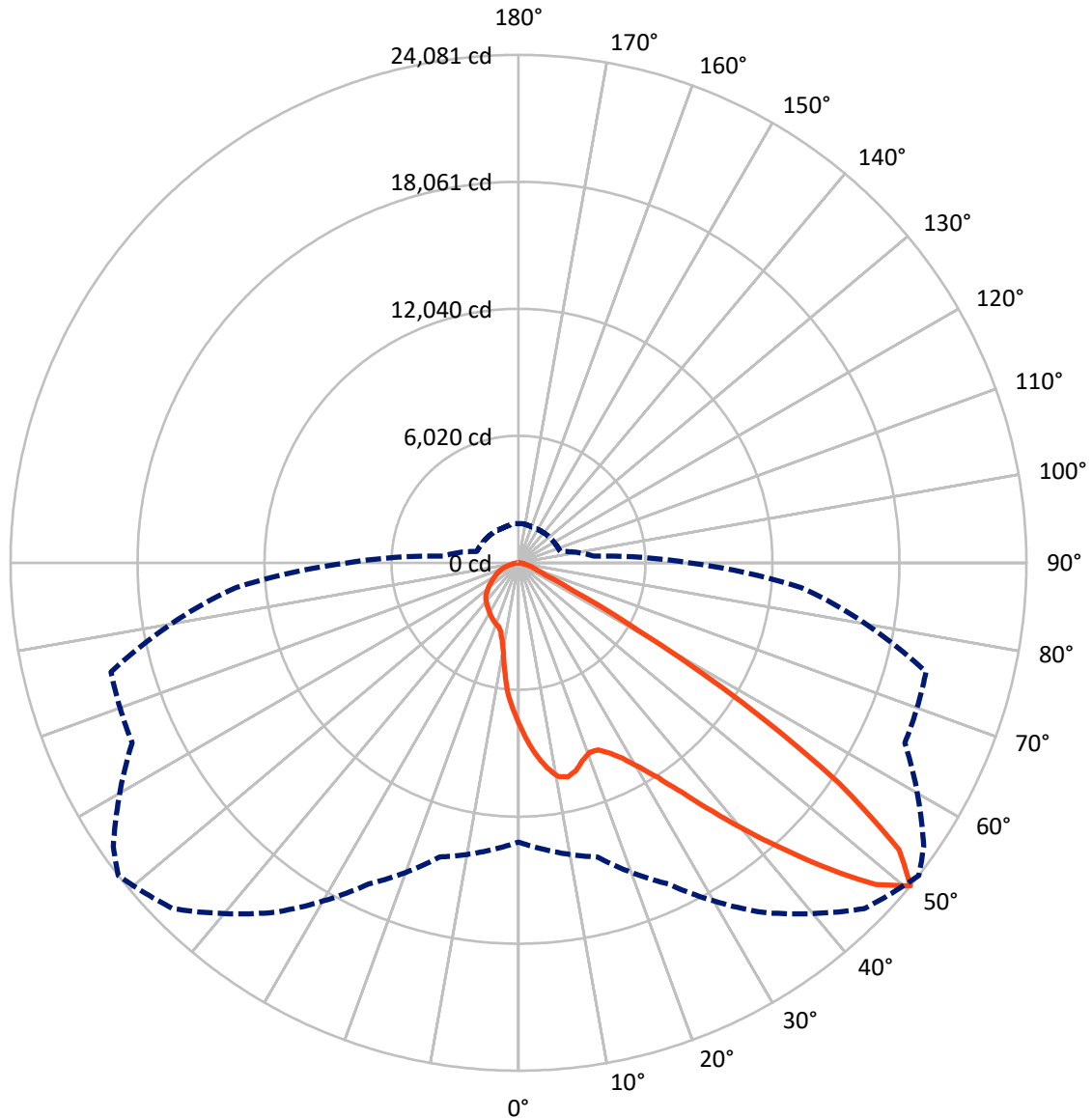
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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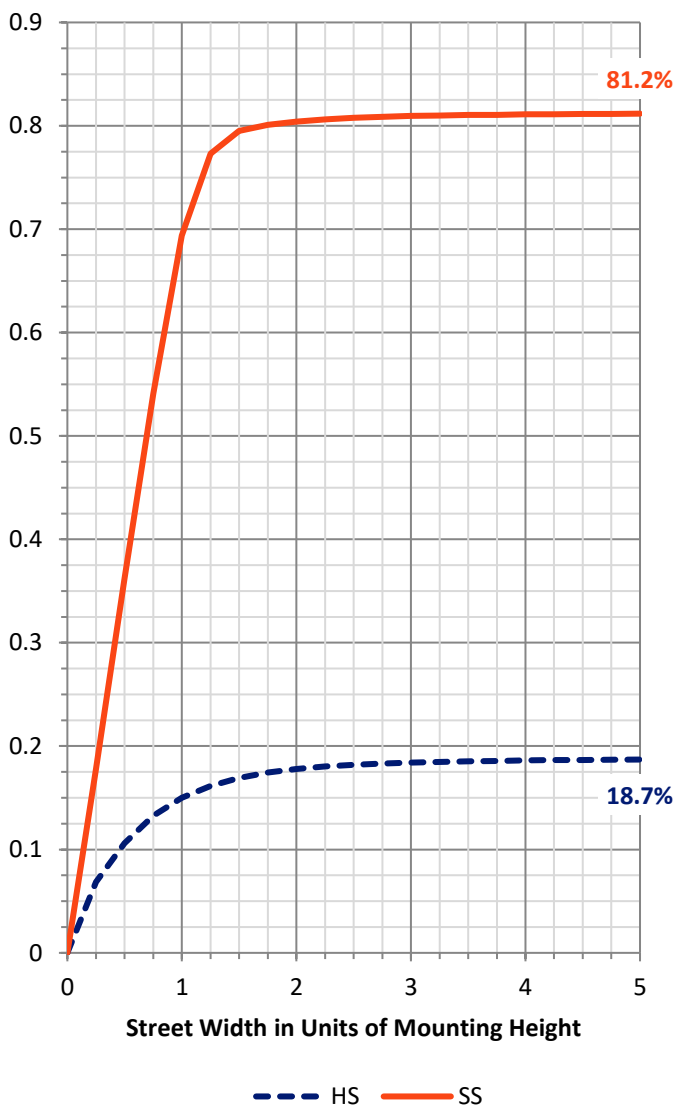
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.3	0.0	5145.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22226.8	0.0	22226.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	27372.1	0.0	27372.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.2	2.6
10°-20°	1906.1	7.0
20°-30°	3210.7	11.7
30°-40°	5387.9	19.7
40°-50°	8242.1	30.1
50°-60°	6009.1	22.0
60°-70°	1337.3	4.9
70°-80°	482.4	1.8
80°-90°	85.4	0.3
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°	27372.1	100.0
0°-180°	27372.1	100.0

Coefficient of Utilization

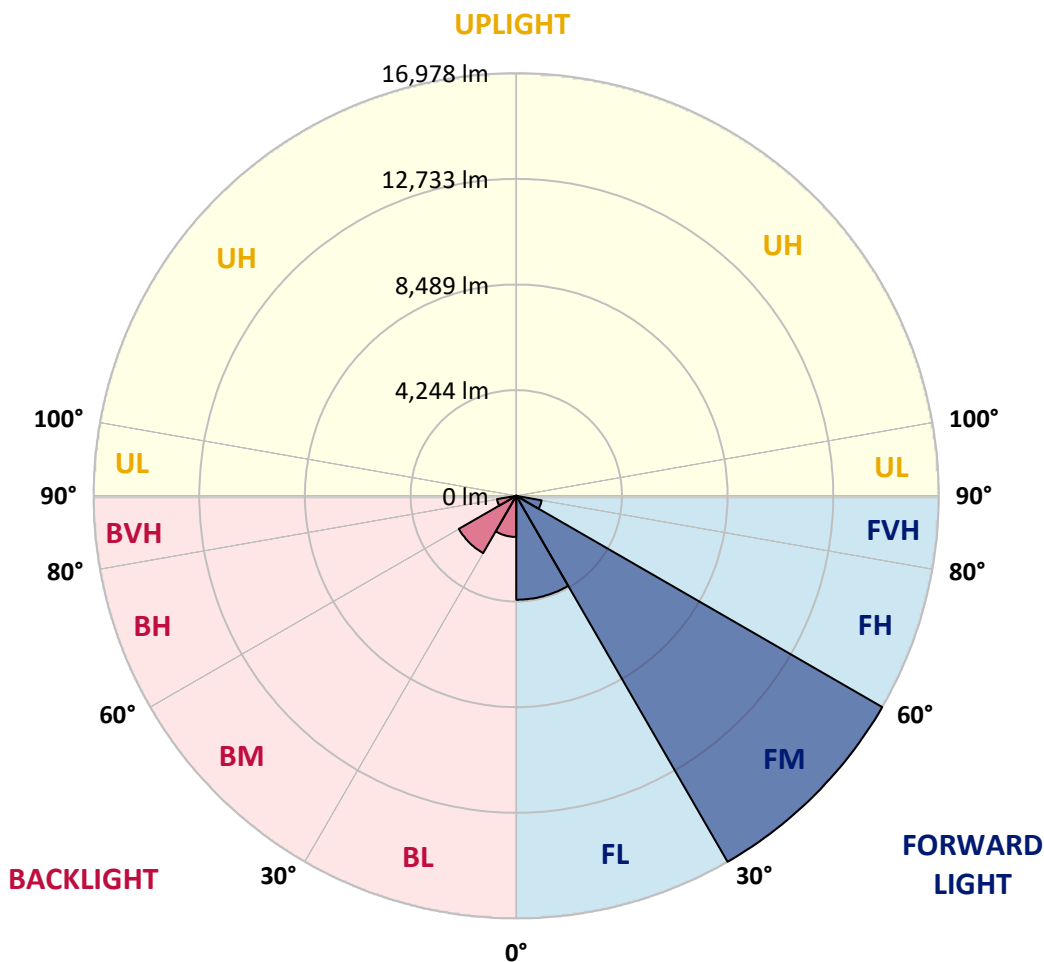


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4175.2	15.3			
FM (30°-60°)	16977.6	62.0			
FH (60°-80°)	1035.8	3.8			G1/1800
FVH (80°-90°)	38.3	0.1			G1/100
BL (0°-30°)	1652.8	6.0	B3/2500		
BM (30°-60°)	2661.5	9.7	B3/5000		
BH (60°-80°)	783.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.2			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°	52°	55°	65°	75°	85°
0°	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8
2.5°	9084.8	8909.9	8929.6	8804.4	8669.1	8629.5	8490.9	8359.0	8260.0	8048.9	7854.3
5°	9929.2	9876.4	9797.2	9698.3	9596.1	9345.3	9203.5	9038.6	8675.6	8349.1	8025.8
7.5°	10051.2	10041.3	10084.3	10084.3	10120.5	10024.8	9823.7	9708.2	9322.2	8791.1	8190.7
10°	9193.6	9223.3	9431.1	9701.6	10077.6	10338.3	10305.2	10275.5	9853.4	9127.6	8385.4
12.5°	8510.7	8444.7	8566.8	8797.7	9361.8	9991.9	10417.4	10420.7	10311.9	9665.3	8527.3
15°	8124.8	8171.0	8204.0	8312.8	8738.4	9467.4	10216.2	10437.2	10915.5	10044.6	8751.5
17.5°	8372.2	8217.1	8210.5	8236.9	8454.7	9002.2	9843.4	10222.8	11245.4	10532.8	9028.6
20°	8695.4	8692.2	8599.8	8566.8	8563.5	9051.7	9599.3	10113.9	11420.2	11166.2	9309.0
22.5°	9262.9	9262.9	9111.1	9038.6	8883.5	9282.6	9632.3	9982.0	11710.5	11601.6	9444.3
25°	10212.9	10057.9	9797.2	9619.2	9530.0	9671.9	9982.0	10295.4	11964.6	12063.4	9724.7
27.5°	11090.3	10846.3	10717.6	10410.8	10292.1	10209.6	10493.3	10809.9	12261.4	12782.6	9876.4
30°	12086.5	12043.7	11812.8	11416.9	11123.4	10971.6	11232.2	11545.6	12805.7	13518.3	10226.1
32.5°	13867.9	13478.6	13165.3	12680.4	12202.0	11878.7	12136.0	12343.8	13709.5	14286.9	10608.7
35°	15791.1	15665.7	15124.7	14250.5	13518.3	13227.9	13379.7	13534.7	14761.8	15461.2	11252.0
37.5°	17681.2	17509.7	17064.4	16328.8	15438.1	14847.6	14956.5	15137.9	15942.8	17044.6	12037.1
40°	19040.3	18829.2	18604.9	18496.0	17611.9	16803.7	16741.1	16787.3	17539.4	18529.0	12908.0
42.5°	19139.3	19399.8	19469.1	19907.9	19700.0	19037.0	18651.1	18660.9	19063.4	19997.0	13788.7
45°	18931.5	18690.7	19202.0	20399.4	21085.6	21395.6	20745.7	20663.3	20006.8	20848.0	14227.4
47.5°	16751.0	16817.0	17681.2	19574.7	21557.2	22942.7	22790.9	22517.2	20511.5	20818.3	14158.2
50°	13241.2	13640.3	14441.9	16800.4	20237.7	23186.8	24080.8	23447.4	20211.3	20000.2	13452.3
52.5°	8817.5	8982.5	9510.2	12555.0	16272.7	20725.9	22596.4	22741.5	19934.2	18928.2	12558.3
55°	3925.5	3912.3	4654.5	6557.9	10209.6	15771.3	18463.1	19347.1	18868.8	17836.3	11687.4
57.5°	1662.5	1718.6	2022.1	2833.6	5020.7	9516.8	12508.8	13284.0	14511.1	14646.4	8966.0
60°	1124.9	1131.4	1214.0	1418.5	2101.3	4469.8	6561.1	7491.4	8368.9	8309.5	4756.8
62.5°	884.1	907.2	969.8	1052.3	1246.9	2028.8	2935.9	3453.8	3509.9	2952.4	1804.4
65°	755.4	758.7	821.4	890.7	976.4	1180.9	1415.2	1441.6	1458.0	1405.3	1326.1
67.5°	623.4	630.1	679.6	758.7	837.9	903.8	969.8	1002.8	1078.7	1227.1	1207.3
70°	494.8	504.7	547.6	613.6	686.1	725.7	808.2	837.9	907.2	1022.6	1068.8
72.5°	376.1	379.4	415.6	461.8	527.8	567.4	636.7	669.6	715.8	814.8	857.7
75°	270.5	280.4	306.8	329.9	339.7	366.1	432.1	468.4	534.4	577.3	580.6
77.5°	141.9	148.5	155.0	155.0	188.0	237.5	280.4	300.2	346.4	379.4	362.8
80°	56.1	59.4	75.9	102.3	131.9	171.6	201.2	211.1	250.7	270.5	280.4
82.5°	33.0	36.3	49.5	72.6	95.7	122.1	145.2	155.0	181.4	204.5	211.1
85°	16.5	19.8	29.7	46.2	62.6	75.9	72.6	69.3	69.3	66.0	69.3
87.5°	6.6	6.6	9.9	9.9	9.9	13.2	16.5	16.5	16.5	19.8	19.8
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°	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8
2.5°	7725.6	7593.7	7471.6	7247.3	7003.2	6933.9	6650.3	6548.0	6475.4	6389.7	6363.3
5°	7765.2	7590.4	7197.8	6745.9	6386.4	5924.6	5621.1	5294.5	5056.9	4997.6	4981.1
7.5°	7847.7	7547.5	6871.3	6188.4	5452.8	4826.0	4347.8	4090.5	3862.9	3849.6	3826.5
10°	7940.1	7418.8	6515.0	5442.9	4502.8	3922.2	3635.2	3523.0	3467.0	3453.8	3447.2
12.5°	8016.0	7392.5	6115.9	4717.2	3829.8	3480.2	3394.4	3384.5	3407.6	3414.2	3427.4
15°	8048.9	7286.9	5634.2	4067.4	3410.9	3282.3	3318.5	3358.1	3374.6	3417.5	3384.5
17.5°	8111.6	7151.7	5040.5	3552.7	3176.7	3199.8	3262.4	3308.6	3335.0	3364.7	3321.8
20°	8144.6	7029.6	4483.0	3245.9	3094.2	3137.1	3222.8	3259.2	3292.1	3305.4	3255.9
22.5°	8114.9	6778.9	3991.5	2998.6	3015.0	3071.2	3147.0	3186.6	3166.8	3114.0	3084.3
25°	8035.7	6425.9	3480.2	2840.2	2902.9	3001.9	3061.2	3031.5	2995.3	2965.5	2955.7
27.5°	8032.4	5993.8	3110.7	2695.1	2807.2	2942.4	2922.7	2896.3	2912.8	2889.7	2863.3
30°	8048.9	5574.9	2807.2	2612.6	2737.9	2803.9	2827.0	2800.6	2820.4	2777.5	2790.8
32.5°	7963.2	5165.8	2609.3	2517.0	2655.5	2652.2	2728.1	2747.9	2701.7	2612.6	2625.8
35°	7999.4	4836.0	2441.1	2474.0	2563.2	2563.2	2622.5	2599.4	2477.3	2424.6	2437.8
37.5°	8250.2	4512.7	2358.6	2414.7	2474.0	2500.4	2480.6	2381.7	2352.0	2352.0	2358.6
40°	8487.6	4235.6	2309.1	2401.5	2391.6	2408.1	2262.9	2272.8	2272.8	2276.1	2259.7
42.5°	8698.7	4047.6	2269.5	2322.3	2338.8	2253.0	2164.0	2154.1	2177.1	2173.8	2160.7
45°	8774.6	3892.5	2213.5	2233.3	2246.4	2104.6	2061.7	2041.9	2068.3	2078.2	2091.4
47.5°	8484.4	3763.9	2150.7	2111.2	2084.8	1992.4	1936.4	1900.1	1933.1	1989.1	2002.4
50°	8111.6	3595.6	2051.9	1976.0	1919.8	1880.3	1840.7	1804.4	1827.5	1867.1	1857.2
52.5°	7560.7	3331.7	1926.5	1847.3	1751.6	1761.5	1725.3	1705.5	1718.6	1718.6	1708.7
55°	6775.6	2737.9	1715.3	1659.3	1580.1	1606.5	1613.1	1586.7	1560.3	1583.4	1563.6
57.5°	4624.9	1933.1	1530.6	1530.6	1451.4	1487.7	1484.4	1421.8	1359.1	1365.7	1352.5
60°	2675.3	1540.5	1411.8	1398.7	1316.2	1345.9	1352.5	1309.6	1214.0	1220.5	1207.3
62.5°	1520.7	1316.2	1233.7	1214.0	1197.4	1223.8	1223.8	1167.8	1085.3	1091.9	1078.7
65°	1293.1	1220.5	1101.8	1098.5	1091.9	1098.5	1072.1	1012.7	940.1	910.5	913.8
67.5°	1174.3	1128.1	1012.7	983.1	963.2	960.0	910.5	854.4	821.4	795.0	791.7
70°	1029.2	992.9	907.2	867.6	847.8	801.6	752.1	715.8	669.6	656.5	669.6
72.5°	814.8	811.5	778.5	735.6	692.7	656.5	613.6	564.1	521.2	511.3	488.2
75°	564.1	570.7	577.3	570.7	534.4	488.2	438.7	399.2	346.4	316.6	310.1
77.5°	369.4	379.4	389.2	376.1	353.0	310.1	277.1	227.6	188.0	164.9	161.6
80°	270.5	283.7	290.3	280.4	254.0	221.0	184.7	145.2	115.5	95.7	95.7
82.5°	207.8	221.0	227.6	211.1	184.7	158.3	131.9	102.3	79.2	62.6	59.4
85°	72.6	69.3	82.4	85.7	102.3	95.7	79.2	59.4	46.2	33.0	29.7
87.5°	19.8	19.8	23.1	23.1	19.8	16.5	16.5	16.5	13.2	9.9	9.9
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)