

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: P648308

Luminaire Tested: **GALN-SA3B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648308
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-SA3B-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 12001.8 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

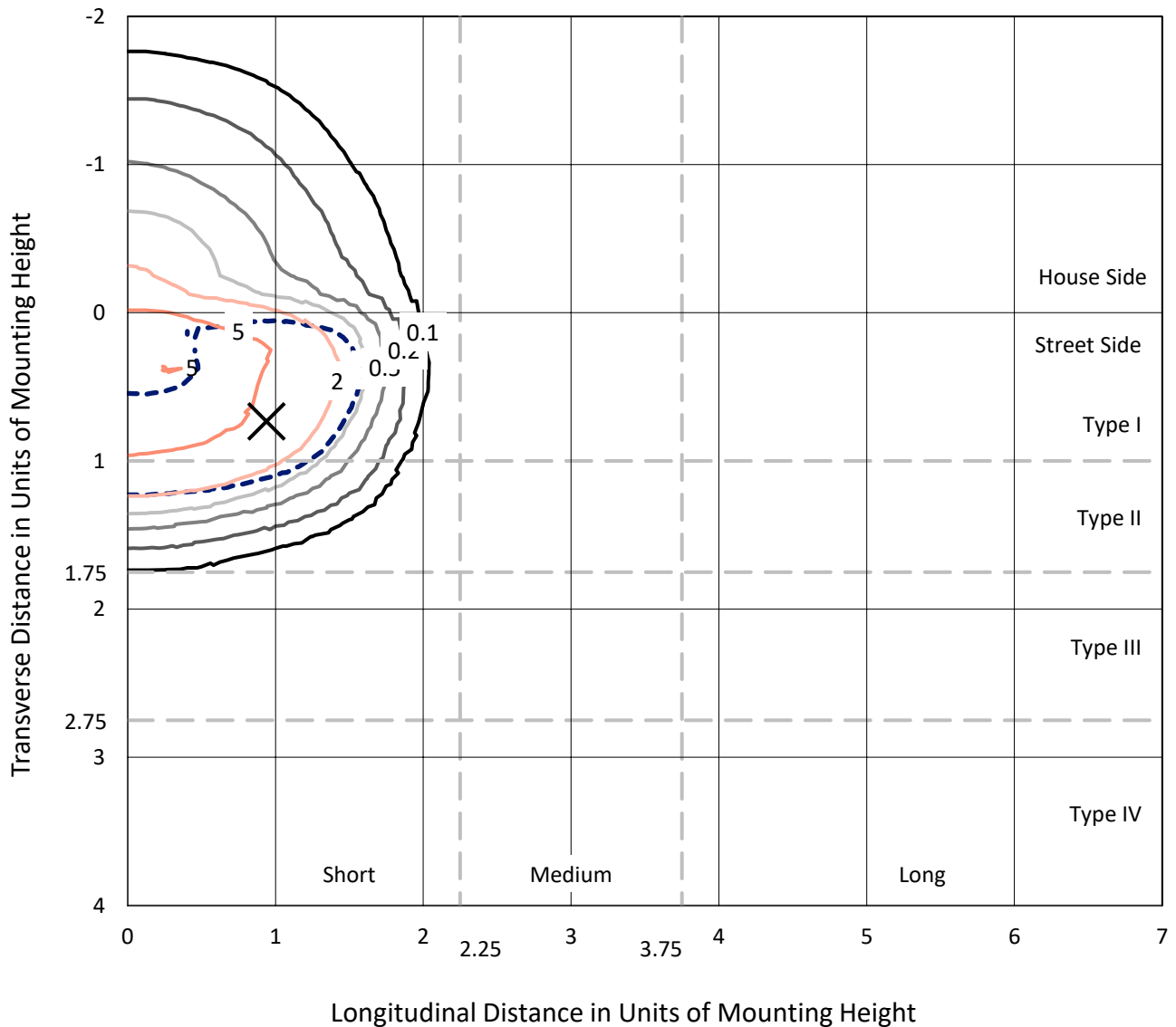
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

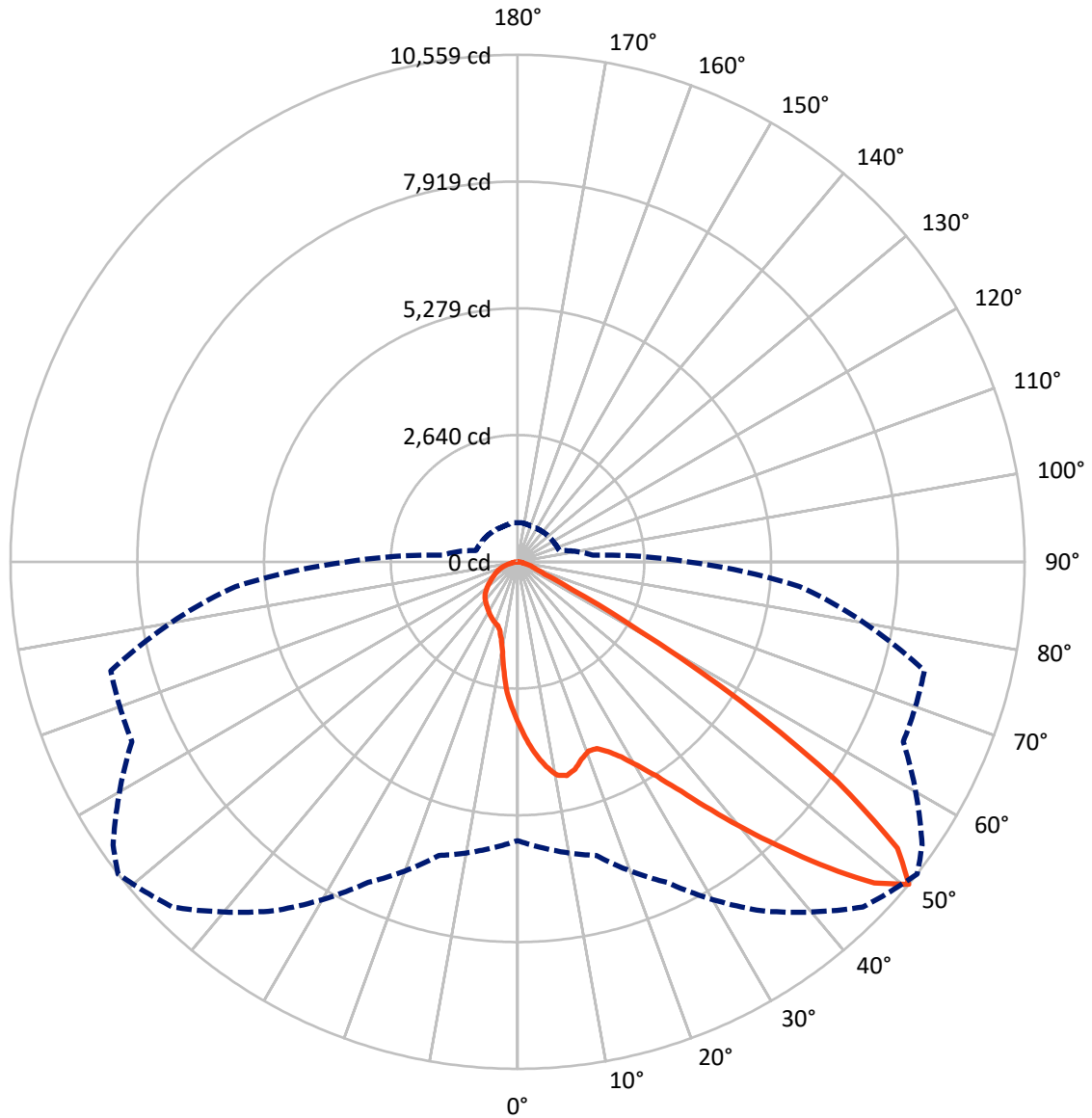
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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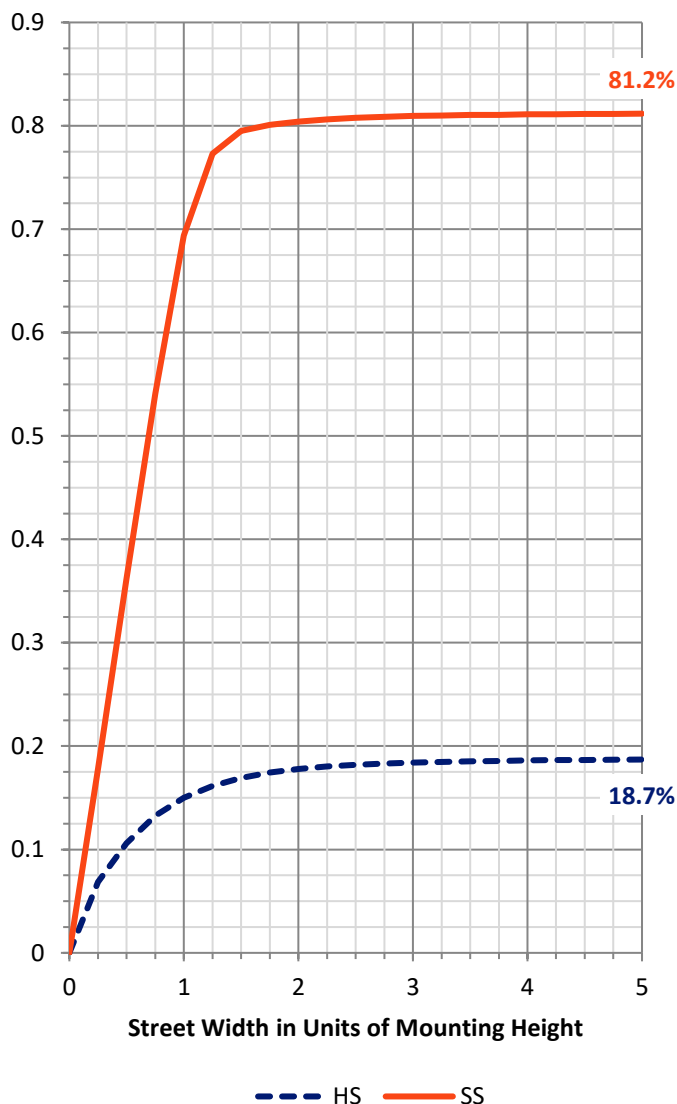
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2256.1	0.0	2256.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9745.8	0.0	9745.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	12001.8	0.0	12001.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	2.6
10°-20°	835.8	7.0
20°-30°	1407.8	11.7
30°-40°	2362.4	19.7
40°-50°	3613.9	30.1
50°-60°	2634.8	22.0
60°-70°	586.4	4.9
70°-80°	211.5	1.8
80°-90°	37.4	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°	12001.8	100.0
0°-180°	12001.8	100.0

Coefficient of Utilization



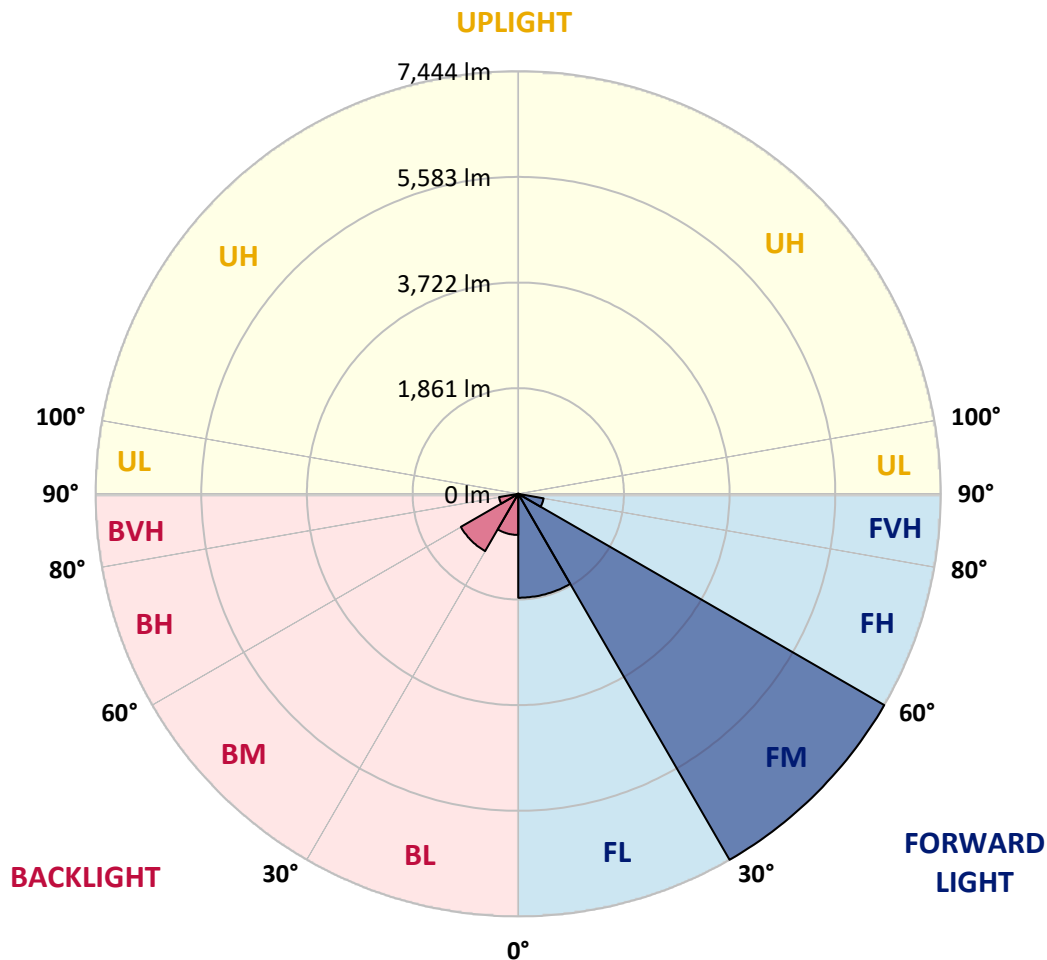
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.7	15.3			
FM (30°-60°)	7444.1	62.0			
FH (60°-80°)	454.2	3.8			G0/660
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	724.7	6.0	B2/1000		
BM (30°-60°)	1167.0	9.7	B2/2500		
BH (60°-80°)	343.7	2.9	B1/500		G1/500
BVH (80°-90°)	20.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1
2.5°	3983.4	3906.7	3915.4	3860.4	3801.2	3783.8	3723.0	3665.1	3621.8	3529.2	3443.9
5°	4353.6	4330.5	4295.8	4252.4	4207.5	4097.6	4035.4	3963.2	3804.0	3660.8	3519.1
7.5°	4407.2	4402.8	4421.6	4421.6	4437.6	4395.6	4307.4	4256.7	4087.5	3854.6	3591.4
10°	4031.1	4044.1	4135.3	4253.9	4418.7	4533.0	4518.5	4505.5	4320.4	4002.1	3676.7
12.5°	3731.7	3702.8	3756.3	3857.5	4104.9	4381.1	4567.7	4569.2	4521.4	4237.9	3738.9
15°	3562.5	3582.7	3597.2	3644.9	3831.5	4151.2	4479.5	4576.4	4786.1	4404.3	3837.2
17.5°	3670.9	3603.0	3600.1	3611.7	3707.1	3947.2	4316.1	4482.4	4930.8	4618.4	3958.8
20°	3812.7	3811.3	3770.8	3756.3	3754.9	3968.9	4209.0	4434.7	5007.4	4896.0	4081.7
22.5°	4061.5	4061.5	3994.9	3963.2	3895.1	4070.2	4223.5	4376.8	5134.7	5087.0	4141.1
25°	4478.1	4410.1	4295.8	4217.7	4178.6	4240.8	4376.8	4514.2	5246.1	5289.5	4264.0
27.5°	4862.7	4755.7	4699.3	4564.8	4512.7	4476.6	4601.0	4739.8	5376.2	5604.8	4330.5
30°	5299.6	5280.8	5179.5	5006.0	4877.2	4810.7	4925.0	5062.4	5614.9	5927.3	4483.8
32.5°	6080.6	5909.9	5772.6	5559.9	5350.2	5208.4	5321.3	5412.4	6011.2	6264.3	4651.6
35°	6923.9	6868.9	6631.7	6248.4	5927.3	5800.1	5866.5	5934.6	6472.6	6779.2	4933.7
37.5°	7752.6	7677.5	7482.2	7159.7	6769.1	6510.3	6557.9	6637.5	6990.4	7473.5	5277.9
40°	8348.6	8256.0	8157.7	8109.9	7722.3	7368.0	7340.5	7360.7	7690.5	8124.4	5659.8
42.5°	8392.0	8506.3	8536.6	8729.0	8637.9	8347.2	8177.9	8182.3	8358.7	8768.0	6045.9
45°	8300.8	8195.3	8419.4	8944.5	9245.4	9381.3	9096.3	9060.2	8772.3	9141.2	6238.3
47.5°	7344.8	7373.7	7752.6	8582.9	9452.2	10059.7	9993.1	9873.1	8993.7	9128.2	6207.9
50°	5805.8	5980.9	6332.3	7366.5	8873.7	10166.7	10558.7	10280.9	8862.1	8769.5	5898.4
52.5°	3866.2	3938.6	4169.9	5505.0	7135.1	9087.7	9907.8	9971.4	8740.6	8299.4	5506.4
55°	1721.2	1715.4	2040.9	2875.4	4476.6	6915.2	8095.4	8483.1	8273.3	7820.7	5124.6
57.5°	729.0	753.6	886.7	1242.5	2201.4	4172.8	5484.8	5824.7	6362.7	6422.0	3931.3
60°	493.2	496.1	532.3	621.9	921.4	1959.8	2876.9	3284.8	3669.5	3643.5	2085.7
62.5°	387.7	397.8	425.2	461.4	546.8	889.6	1287.3	1514.4	1539.0	1294.5	791.1
65°	331.2	332.7	360.2	390.6	428.1	517.8	620.5	632.0	639.3	616.1	581.5
67.5°	273.3	276.2	297.9	332.7	367.4	396.3	425.2	439.7	472.9	538.1	529.4
70°	217.0	221.3	240.1	269.0	300.8	318.2	354.4	367.4	397.8	448.3	468.6
72.5°	164.9	166.3	182.3	202.5	231.5	248.8	279.1	293.6	313.9	357.3	376.1
75°	118.6	122.9	134.5	144.6	149.0	160.5	189.5	205.4	234.4	253.1	254.6
77.5°	62.2	65.1	68.0	68.0	82.4	104.1	122.9	131.6	151.9	166.3	159.1
80°	24.6	26.1	33.3	44.9	57.9	75.2	88.2	92.6	109.9	118.6	122.9
82.5°	14.5	15.9	21.7	31.8	42.0	53.5	63.7	68.0	79.6	89.7	92.6
85°	7.2	8.7	13.0	20.3	27.5	33.3	31.8	30.4	30.4	28.9	30.4
87.5°	2.9	2.9	4.3	4.3	4.3	5.8	7.2	7.2	7.2	8.7	8.7
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°	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1
2.5°	3387.5	3329.6	3276.1	3177.7	3070.7	3040.3	2915.9	2871.1	2839.2	2801.7	2790.1
5°	3404.8	3328.1	3156.0	2957.9	2800.2	2597.8	2464.6	2321.4	2217.3	2191.3	2184.0
7.5°	3441.0	3309.3	3012.8	2713.4	2390.9	2116.1	1906.4	1793.5	1693.7	1687.9	1677.8
10°	3481.5	3253.0	2856.6	2386.6	1974.3	1719.8	1594.0	1544.8	1520.2	1514.4	1511.5
12.5°	3514.7	3241.4	2681.6	2068.4	1679.3	1525.9	1488.3	1484.0	1494.1	1497.0	1502.8
15°	3529.2	3195.1	2470.4	1783.4	1495.6	1439.2	1455.0	1472.4	1479.6	1498.4	1484.0
17.5°	3556.7	3135.8	2210.1	1557.8	1392.9	1403.0	1430.5	1450.7	1462.3	1475.3	1456.5
20°	3571.2	3082.3	1965.6	1423.3	1356.7	1375.5	1413.2	1429.1	1443.5	1449.3	1427.6
22.5°	3558.1	2972.3	1750.2	1314.7	1322.0	1346.6	1379.9	1397.2	1388.6	1365.4	1352.4
25°	3523.4	2817.5	1525.9	1245.4	1272.8	1316.2	1342.2	1329.2	1313.3	1300.3	1295.9
27.5°	3521.9	2628.1	1364.0	1181.7	1230.9	1290.1	1281.5	1269.9	1277.2	1267.1	1255.5
30°	3529.2	2444.4	1230.9	1145.5	1200.5	1229.5	1239.6	1228.0	1236.7	1217.9	1223.7
32.5°	3491.6	2265.1	1144.1	1103.6	1164.3	1162.9	1196.2	1204.9	1184.6	1145.5	1151.3
35°	3507.5	2120.4	1070.4	1084.8	1123.8	1123.8	1149.9	1139.7	1086.3	1063.1	1068.9
37.5°	3617.5	1978.6	1034.2	1058.8	1084.8	1096.4	1087.7	1044.3	1031.3	1031.3	1034.2
40°	3721.6	1857.2	1012.5	1053.0	1048.7	1055.9	992.2	996.6	996.6	998.0	990.8
42.5°	3814.1	1774.7	995.1	1018.3	1025.5	987.9	948.8	944.5	954.6	953.1	947.4
45°	3847.4	1706.8	970.5	979.2	985.0	922.8	904.0	895.3	906.9	911.3	917.0
47.5°	3720.1	1650.3	943.0	925.7	914.2	873.6	849.0	833.1	847.6	872.2	878.0
50°	3556.7	1576.6	899.7	866.4	841.8	824.4	807.1	791.1	801.3	818.6	814.3
52.5°	3315.1	1460.8	844.7	810.0	768.0	772.4	756.5	747.8	753.6	753.6	749.3
55°	2970.9	1200.5	752.1	727.6	692.8	704.4	707.3	695.7	684.1	694.3	685.6
57.5°	2027.8	847.6	671.1	671.1	636.4	652.3	650.9	623.4	595.9	598.8	593.0
60°	1173.0	675.5	619.0	613.2	577.1	590.1	593.0	574.3	532.3	535.2	529.4
62.5°	666.8	577.1	541.0	532.3	525.1	536.6	536.6	512.0	475.8	478.7	472.9
65°	567.0	535.2	483.1	481.6	478.7	481.6	470.1	444.0	412.2	399.2	400.7
67.5°	514.9	494.7	444.0	431.0	422.4	420.9	399.2	374.6	360.2	348.6	347.1
70°	451.2	435.3	397.8	380.4	371.7	351.5	329.8	313.9	293.6	287.8	293.6
72.5°	357.3	355.8	341.4	322.5	303.7	287.8	269.0	247.3	228.6	224.2	214.1
75°	247.3	250.2	253.1	250.2	234.4	214.1	192.4	175.0	151.9	138.8	135.9
77.5°	162.0	166.3	170.7	164.9	154.8	135.9	121.5	99.8	82.4	72.3	70.9
80°	118.6	124.4	127.3	122.9	111.3	96.9	81.0	63.7	50.7	42.0	42.0
82.5°	91.1	96.9	99.8	92.6	81.0	69.5	57.9	44.9	34.7	27.5	26.1
85°	31.8	30.4	36.2	37.6	44.9	42.0	34.7	26.1	20.3	14.5	13.0
87.5°	8.7	8.7	10.1	10.1	8.7	7.2	7.2	7.2	5.8	4.3	4.3
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)