

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: P651775

Luminaire Tested: **GALN-SA3A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11593.2 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

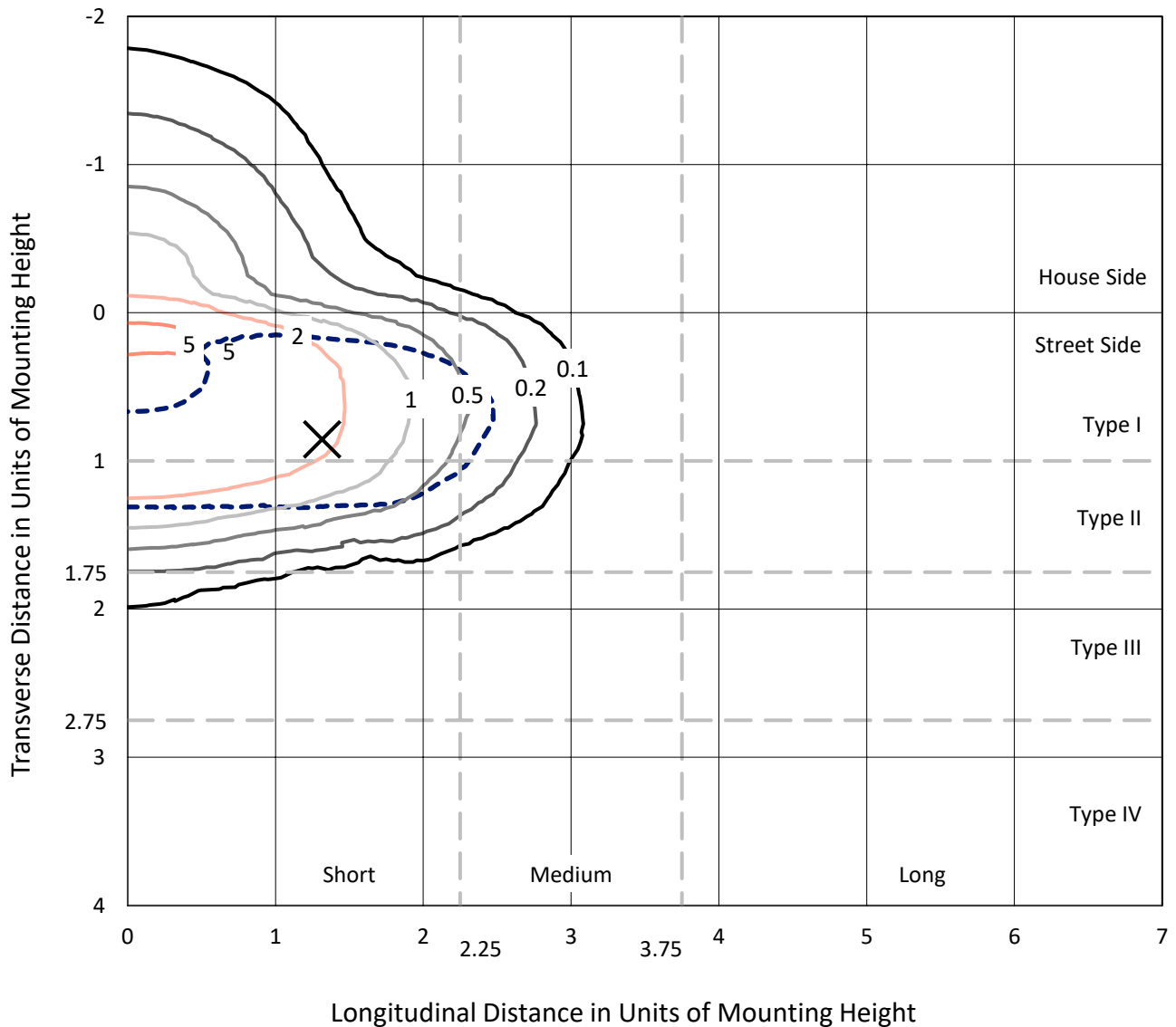
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

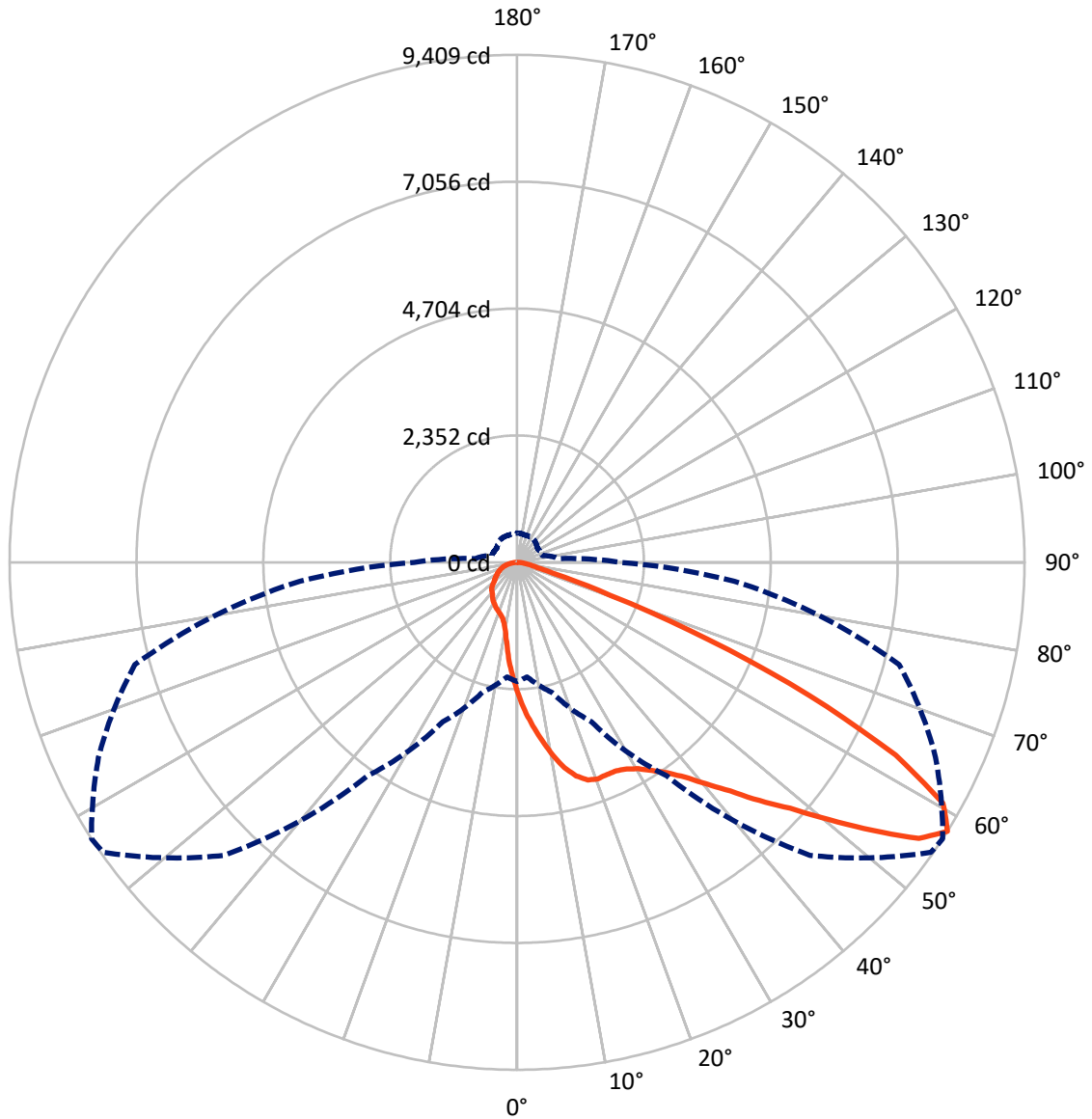
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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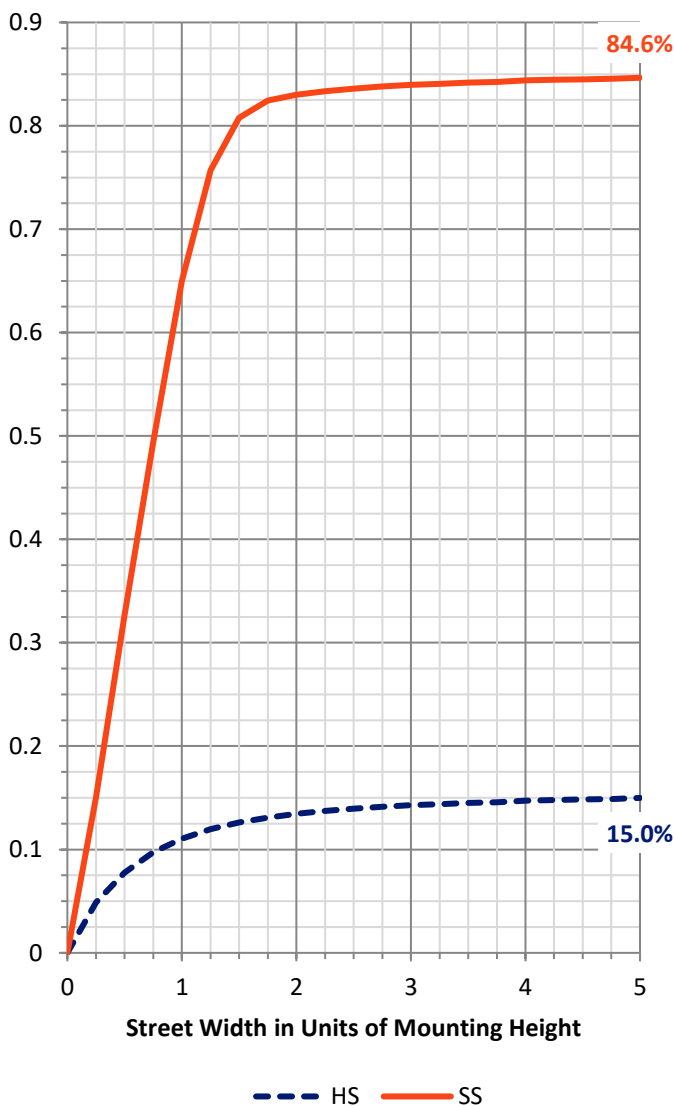
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.0	0.0	1763.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9830.2	0.0	9830.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	11593.2	0.0	11593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	2.0
10°-20°	689.9	6.0
20°-30°	1145.5	9.9
30°-40°	1725.5	14.9
40°-50°	2590.7	22.3
50°-60°	2903.8	25.0
60°-70°	1699.5	14.7
70°-80°	502.7	4.3
80°-90°	101.6	0.9
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°	11593.2	100.0
0°-180°	11593.2	100.0

Coefficient of Utilization

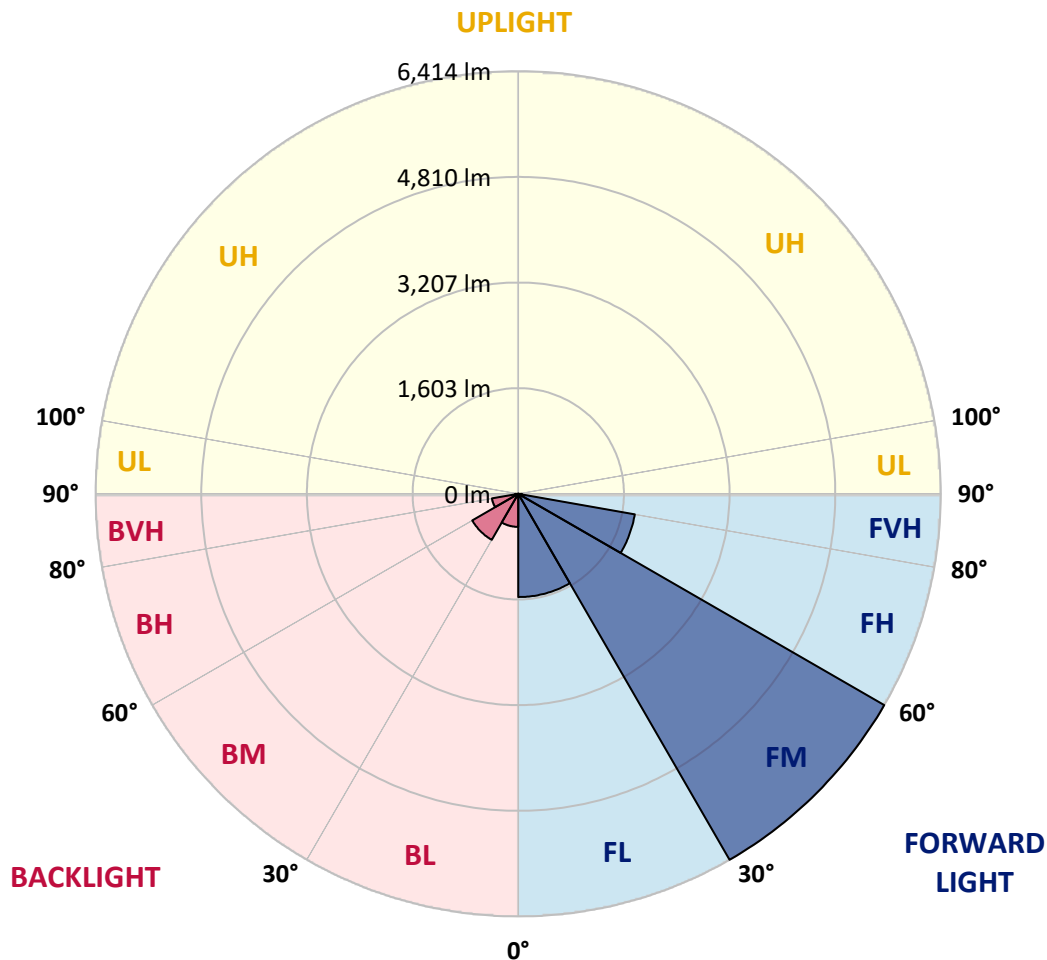


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.1	13.5			
FM (30°-60°)	6413.9	55.3			
FH (60°-80°)	1796.5	15.5			G1/1800
FVH (80°-90°)	52.7	0.5			G1/100
BL (0°-30°)	502.3	4.3	B2/1000		
BM (30°-60°)	806.1	7.0	B1/1000		
BH (60°-80°)	405.7	3.5	B1/500		G1/500
BVH (80°-90°)	48.9	0.4			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°	55°	57°	65°	75°	85°
0°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	3026.4	2993.4	2967.4	2944.5	2914.7	2834.1	2753.5	2752.3	2688.2	2589.2	2487.6
5°	3519.5	3475.1	3480.8	3409.7	3338.6	3221.9	3051.1	3042.2	2905.8	2720.6	2532.1
7.5°	3840.6	3841.3	3823.4	3782.8	3706.0	3573.4	3379.9	3336.1	3146.3	2865.2	2582.8
10°	3824.1	3841.3	3871.0	3905.9	3929.4	3864.1	3687.7	3634.4	3387.5	3040.4	2639.3
12.5°	3604.5	3631.2	3673.7	3761.3	3902.8	4010.6	3950.3	3907.2	3666.8	3214.9	2701.5
15°	3467.4	3483.3	3506.8	3565.8	3718.1	3976.4	4132.5	4109.6	3930.1	3412.3	2771.3
17.5°	3425.6	3441.5	3449.0	3485.2	3593.8	3858.3	4204.2	4244.9	4163.6	3593.8	2841.7
20°	3467.4	3475.1	3475.1	3496.6	3581.7	3789.2	4201.0	4282.9	4355.3	3811.4	2907.8
22.5°	3577.3	3580.4	3575.9	3583.6	3647.1	3808.2	4171.2	4272.8	4510.1	3996.1	2959.1
25°	3755.6	3760.6	3731.4	3713.7	3760.0	3892.0	4187.8	4281.0	4631.3	4172.5	2993.4
27.5°	3958.0	3964.3	3928.8	3887.5	3909.1	3995.4	4252.4	4336.2	4722.0	4346.4	3015.0
30°	4206.1	4208.7	4149.0	4099.5	4085.6	4149.7	4362.9	4440.9	4835.0	4551.3	3047.4
32.5°	4460.0	4479.0	4402.2	4332.4	4308.9	4328.6	4526.0	4601.4	4969.6	4771.6	3099.4
35°	4805.2	4808.3	4716.3	4631.3	4553.9	4579.2	4734.7	4789.3	5155.5	5026.1	3173.0
37.5°	5236.1	5265.2	5138.3	4979.7	4884.5	4847.7	4987.3	5047.0	5416.3	5338.2	3284.0
40°	5714.6	5725.4	5616.9	5517.9	5344.0	5237.3	5333.8	5398.5	5738.1	5710.7	3412.9
42.5°	6015.3	6038.9	6047.1	6037.0	5906.3	5727.3	5764.0	5794.6	6118.8	6060.4	3544.9
45°	6116.9	6151.8	6269.8	6519.9	6533.8	6357.5	6271.8	6300.9	6533.8	6413.3	3671.1
47.5°	5948.7	6008.4	6226.1	6738.8	7122.8	7136.1	6877.8	6813.7	6912.1	6705.8	3762.5
50°	5514.0	5526.7	5859.9	6602.4	7398.8	7880.5	7613.3	7494.0	7271.3	6922.2	3825.4
52.5°	4841.4	4855.9	5135.1	5968.4	7228.7	8400.8	8473.8	8260.6	7636.1	7090.4	3866.6
55°	3593.8	3678.1	3985.3	4790.6	6422.8	8352.0	9157.9	9036.7	8077.2	7223.7	3931.3
57.5°	2209.6	2132.3	2496.5	3259.3	4830.5	7680.6	9369.2	9408.6	8562.6	7335.4	4039.8
60°	1016.6	1031.8	1182.3	1681.1	2944.5	6008.4	8824.8	9073.5	8831.1	7331.5	4067.2
62.5°	700.6	686.7	648.6	738.1	1342.8	3800.0	7454.0	7875.4	8292.9	7103.7	3958.7
65°	626.4	612.4	538.7	514.0	616.8	1656.3	5418.8	5950.7	6982.5	6528.8	3688.3
67.5°	585.1	566.1	489.9	441.7	440.4	659.3	3195.2	3835.5	5179.0	5519.7	3195.9
70°	541.9	526.7	451.2	397.9	375.1	414.4	1404.4	1838.4	3362.7	3977.7	2489.5
72.5°	498.8	481.1	413.1	356.0	326.2	310.3	538.2	700.0	1900.0	2384.8	1526.2
75°	436.0	427.1	369.4	322.4	290.0	250.7	341.4	389.6	908.8	1095.3	766.0
77.5°	381.4	371.9	328.1	281.7	258.3	203.7	242.4	264.7	383.3	444.2	345.8
80°	279.2	288.7	276.7	248.8	230.3	160.0	163.1	181.5	227.8	252.0	211.3
82.5°	177.0	194.9	213.2	191.7	174.5	126.3	112.9	119.9	155.5	165.0	93.9
85°	74.3	75.5	123.7	116.7	99.7	74.8	67.9	71.7	83.1	87.0	43.8
87.5°	28.6	27.9	43.8	40.6	31.1	21.6	21.6	24.1	33.0	30.4	14.0
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°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	2443.9	2398.8	2309.3	2198.3	2117.0	2025.6	1945.1	1887.3	1865.8	1855.6	1836.5
5°	2441.9	2353.1	2167.8	1973.6	1817.5	1657.6	1522.4	1434.8	1427.2	1368.8	1363.1
7.5°	2442.6	2306.8	2011.7	1726.2	1488.1	1324.4	1212.7	1183.5	1148.6	1139.7	1144.2
10°	2444.5	2247.7	1844.1	1481.2	1250.8	1143.5	1101.6	1090.3	1091.5	1095.3	1096.0
12.5°	2447.1	2190.6	1670.2	1295.2	1117.5	1073.1	1068.7	1078.8	1089.6	1097.8	1099.8
15°	2450.2	2125.3	1500.8	1145.4	1050.9	1047.1	1061.7	1078.8	1094.1	1106.1	1108.0
17.5°	2446.4	2049.1	1358.7	1053.4	1014.1	1032.5	1056.6	1078.2	1092.1	1103.6	1104.8
20°	2437.5	1964.1	1221.6	988.7	991.3	1021.1	1047.1	1067.4	1082.6	1088.3	1092.8
22.5°	2403.2	1862.6	1102.3	938.6	964.0	1005.2	1036.3	1048.4	1031.2	1019.2	1022.3
25°	2344.9	1730.5	991.3	897.9	939.2	983.0	1014.8	985.6	971.6	966.5	969.0
27.5°	2271.9	1585.9	907.4	855.5	907.4	958.2	949.3	944.3	938.0	929.7	931.6
30°	2193.2	1444.3	836.4	822.4	873.2	902.4	906.2	914.4	907.4	894.8	899.9
32.5°	2120.2	1311.1	782.5	794.5	849.1	844.6	873.2	882.7	850.3	807.9	809.7
35°	2058.0	1187.3	741.8	767.2	807.9	809.7	838.3	805.3	770.4	750.1	751.3
37.5°	2011.1	1090.9	715.2	743.8	755.1	779.3	764.0	746.9	742.5	728.6	729.1
40°	1983.2	1006.5	698.0	725.4	723.4	739.9	691.0	708.2	714.6	710.1	710.7
42.5°	1955.2	946.8	680.3	700.0	699.3	667.0	656.1	670.8	687.3	689.2	687.9
45°	1933.0	900.5	661.9	661.3	674.0	623.2	620.0	628.9	652.4	663.8	663.1
47.5°	1908.2	861.8	633.9	616.2	620.0	595.8	590.8	594.6	623.2	641.6	646.6
50°	1877.1	823.1	599.0	574.9	559.1	570.5	571.8	572.4	601.0	621.9	626.4
52.5°	1852.4	793.9	559.1	541.4	522.3	547.7	557.2	558.4	575.6	592.7	595.8
55°	1867.0	777.4	519.7	507.0	489.9	524.2	542.6	545.1	548.9	561.6	563.6
57.5°	1910.8	781.2	488.0	471.5	458.8	496.3	527.4	529.2	526.7	541.9	544.5
60°	1924.1	779.3	464.6	432.2	424.5	466.4	505.1	509.0	508.3	530.5	535.0
62.5°	1868.3	755.1	441.0	399.1	394.1	436.0	474.1	489.3	492.5	524.2	529.9
65°	1736.9	705.7	410.0	364.2	364.2	403.6	444.2	465.2	474.1	516.5	522.9
67.5°	1563.7	647.3	378.2	334.5	333.2	372.5	412.5	434.0	448.0	505.8	509.6
70°	1297.7	568.6	338.8	302.1	302.1	337.6	373.7	399.8	420.1	485.5	485.5
72.5°	889.1	472.8	291.3	265.3	265.9	298.9	335.7	364.9	389.0	444.9	446.2
75°	562.3	369.4	239.3	225.9	228.4	259.5	297.6	328.1	376.3	439.8	441.7
77.5°	298.9	259.5	190.4	187.2	190.4	218.9	261.5	303.3	377.6	381.4	375.1
80°	193.5	184.0	150.4	144.1	145.3	176.4	232.9	288.1	303.3	307.1	293.2
82.5°	105.4	116.7	106.6	100.2	100.2	137.7	198.6	229.1	217.7	180.9	172.6
85°	45.1	54.6	55.2	48.2	46.3	85.0	133.3	125.1	116.1	111.1	109.8
87.5°	12.7	17.7	17.7	13.3	10.2	23.5	26.7	7.7	0.0	0.7	1.3
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)