

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: P648310

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648310
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-SA3B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13430.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

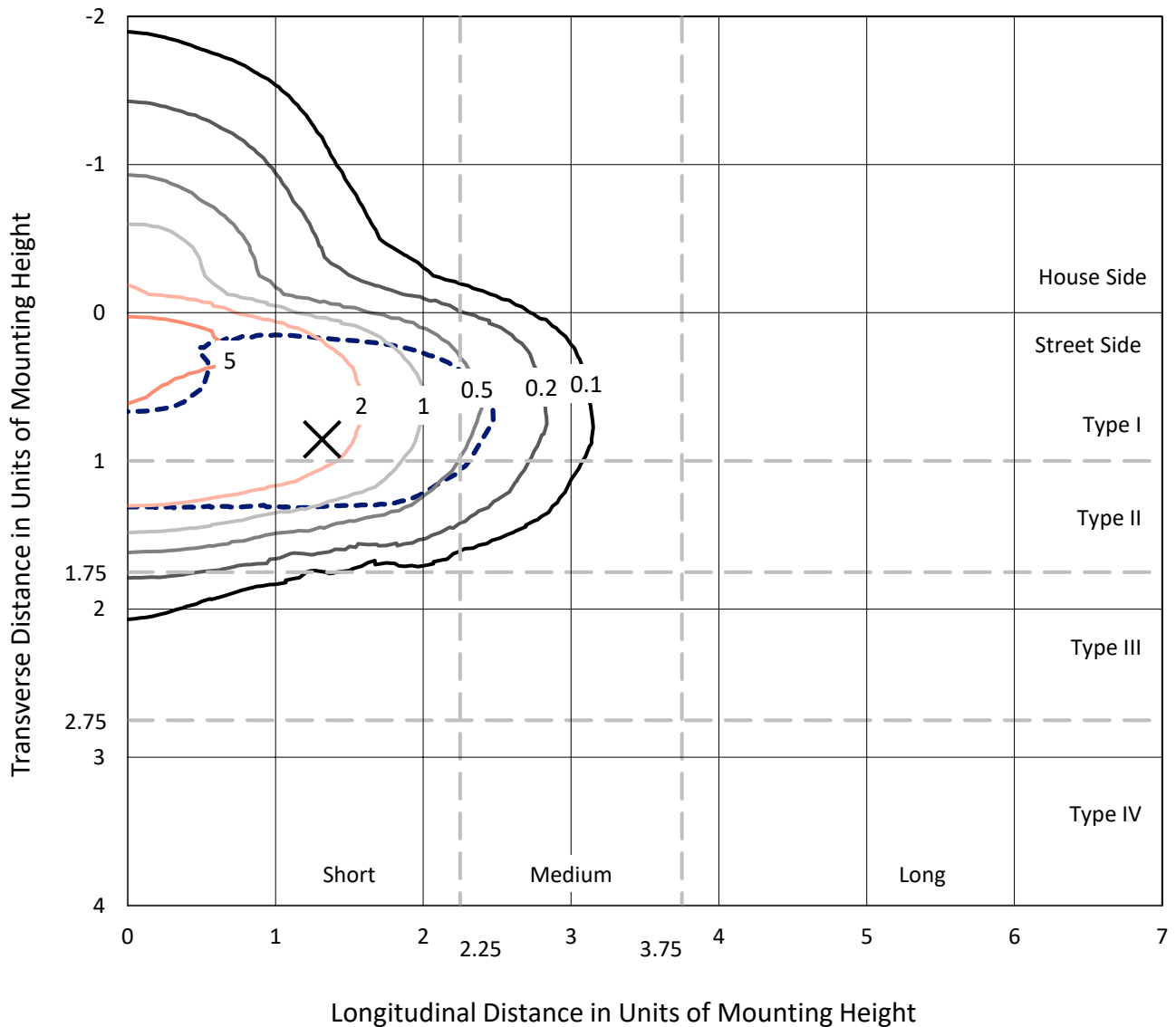
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

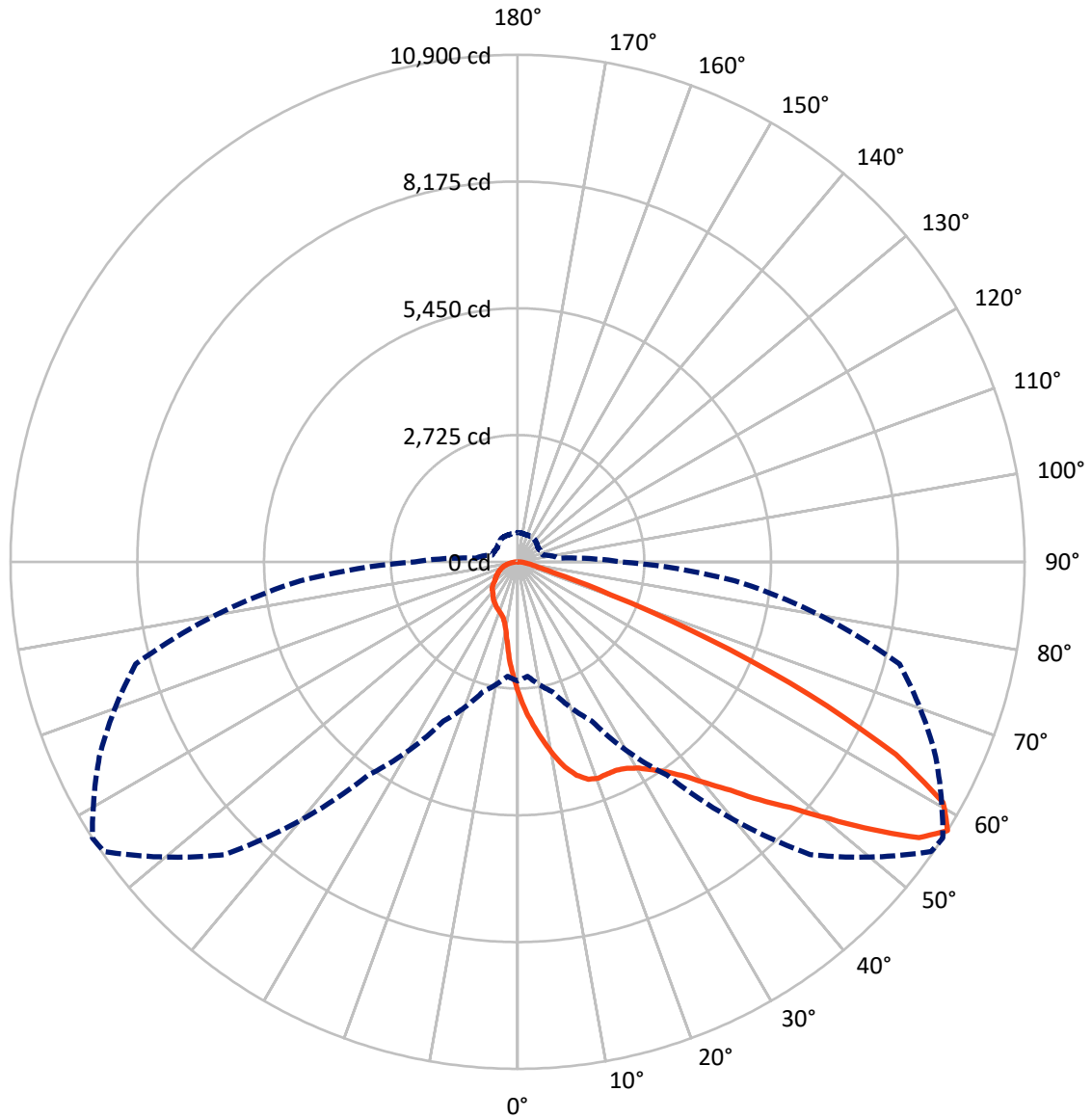
✕ Max cd
 - - - 1/2 Max cd



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

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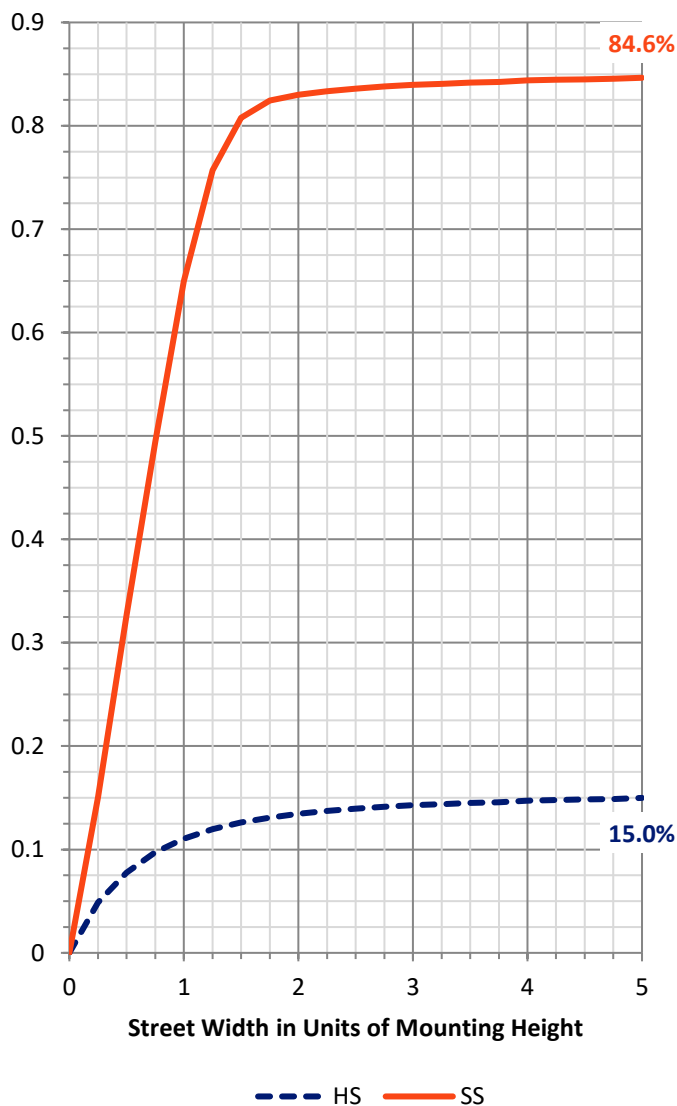
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.4	0.0	2042.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	11388.4	0.0	11388.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	13430.8	0.0	13430.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	2.0
10°-20°	799.2	6.0
20°-30°	1327.1	9.9
30°-40°	1999.0	14.9
40°-50°	3001.3	22.3
50°-60°	3364.1	25.0
60°-70°	1968.8	14.7
70°-80°	582.4	4.3
80°-90°	117.7	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°	13430.8	100.0
0°-180°	13430.8	100.0

Coefficient of Utilization

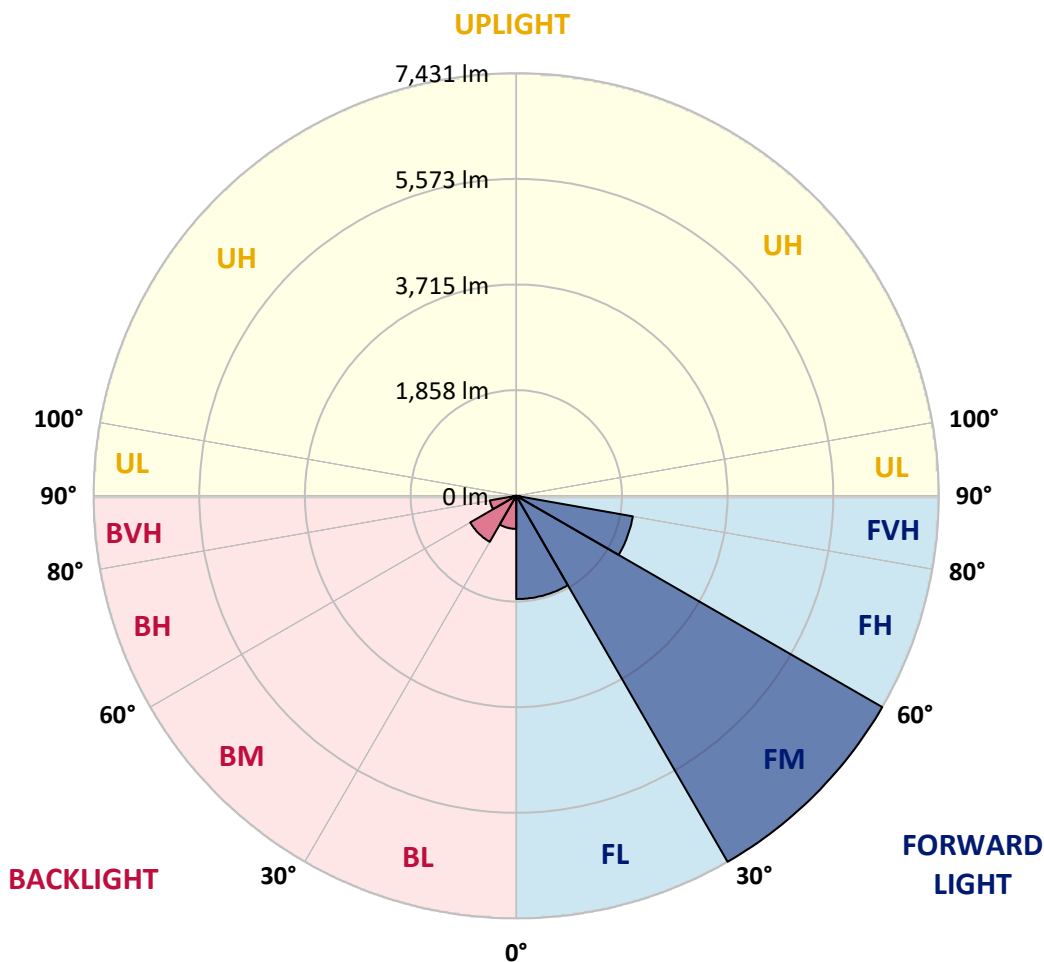


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.5	13.5			
FM (30°-60°)	7430.5	55.3			
FH (60°-80°)	2081.2	15.5			G2/5000
FVH (80°-90°)	61.1	0.5			G1/100
BL (0°-30°)	582.0	4.3	B2/1000		
BM (30°-60°)	933.9	7.0	B1/1000		
BH (60°-80°)	470.0	3.5	B1/500		G1/500
BVH (80°-90°)	56.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6
2.5°	3506.1	3467.9	3437.8	3411.3	3376.7	3283.4	3190.0	3188.5	3114.2	2999.6	2881.9
5°	4077.4	4025.9	4032.5	3950.2	3867.9	3732.6	3534.8	3524.5	3366.4	3151.7	2933.4
7.5°	4449.4	4450.1	4429.5	4382.5	4293.5	4139.9	3915.6	3864.9	3645.1	3319.4	2992.2
10°	4430.2	4450.1	4484.6	4525.1	4552.3	4476.6	4272.2	4210.4	3924.5	3522.3	3057.6
12.5°	4175.9	4206.7	4256.0	4357.5	4521.4	4646.4	4576.6	4526.5	4247.9	3724.5	3129.7
15°	4017.1	4035.4	4062.7	4131.0	4307.4	4606.7	4787.6	4761.1	4553.1	3953.1	3210.5
17.5°	3968.6	3987.0	3995.7	4037.7	4163.4	4470.0	4870.7	4917.7	4823.6	4163.4	3292.2
20°	4017.1	4025.9	4025.9	4050.9	4149.4	4389.8	4867.0	4961.8	5045.6	4415.6	3368.6
22.5°	4144.3	4147.9	4142.8	4151.6	4225.1	4411.9	4832.4	4950.0	5225.0	4629.5	3428.2
25°	4350.8	4356.8	4322.9	4302.4	4356.0	4508.9	4851.5	4959.6	5365.4	4833.9	3467.9
27.5°	4585.4	4592.8	4551.6	4503.7	4528.8	4628.8	4926.5	5023.6	5470.5	5035.3	3492.9
30°	4872.8	4875.7	4806.7	4749.3	4733.2	4807.4	5054.4	5144.9	5601.4	5272.8	3530.4
32.5°	5166.9	5188.9	5100.0	5019.1	4991.9	5014.7	5243.4	5330.8	5757.2	5527.9	3590.7
35°	5566.8	5570.5	5463.9	5365.4	5275.7	5305.1	5485.2	5548.5	5972.6	5822.7	3676.0
37.5°	6066.1	6099.9	5952.8	5769.1	5658.7	5616.1	5777.8	5847.0	6274.8	6184.4	3804.6
40°	6620.3	6632.9	6507.2	6392.5	6191.0	6067.5	6179.3	6254.3	6647.6	6616.0	3953.8
42.5°	6968.9	6996.0	7005.7	6993.8	6842.4	6635.1	6677.7	6713.1	7088.7	7021.1	4106.8
45°	7086.5	7126.9	7263.7	7553.4	7569.5	7365.1	7265.8	7299.7	7569.5	7429.8	4253.1
47.5°	6891.7	6960.8	7212.9	7807.0	8251.8	8267.2	7968.0	7893.7	8007.7	7768.8	4359.0
50°	6388.0	6402.7	6788.8	7648.9	8571.6	9129.5	8820.1	8681.8	8423.8	8019.4	4431.7
52.5°	5608.8	5625.7	5949.2	6914.4	8374.6	9732.5	9817.0	9570.0	8846.6	8214.3	4479.5
55°	4163.4	4261.2	4617.0	5550.0	7440.8	9675.8	10609.5	10469.1	9357.5	8368.6	4554.5
57.5°	2559.9	2470.2	2892.2	3775.9	5596.3	8898.0	10854.3	10899.9	9919.9	8498.1	4680.2
60°	1177.8	1195.4	1369.6	1947.6	3411.3	6960.8	10223.6	10511.8	10230.9	8493.7	4711.9
62.5°	811.7	795.4	751.4	855.0	1555.7	4402.3	8635.6	9123.7	9607.5	8229.7	4586.1
65°	725.6	709.5	624.2	595.5	714.6	1918.8	6277.8	6893.8	8089.3	7563.6	4272.9
67.5°	677.8	655.8	567.6	511.7	510.2	763.9	3701.7	4443.4	5999.9	6394.7	3702.4
70°	627.9	610.2	522.7	461.0	434.5	480.1	1627.0	2129.8	3895.7	4608.2	2884.2
72.5°	577.9	557.3	478.6	412.4	377.9	359.5	623.4	811.0	2201.2	2762.8	1768.1
75°	505.1	494.8	427.9	373.5	336.0	290.4	395.5	451.4	1052.8	1268.9	887.4
77.5°	441.8	430.8	380.1	326.4	299.2	236.0	280.9	306.5	444.0	514.7	400.7
80°	323.5	334.5	320.6	288.2	266.8	185.3	188.9	210.2	263.9	291.9	244.8
82.5°	205.1	225.7	247.0	222.1	202.2	146.3	130.8	139.0	180.1	191.1	108.8
85°	86.1	87.5	143.4	135.3	115.4	86.8	78.7	83.1	96.3	100.7	50.7
87.5°	33.1	32.3	50.7	47.1	36.0	25.0	25.0	28.0	38.2	35.3	16.2
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°	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6
2.5°	2831.2	2779.0	2675.4	2546.7	2452.6	2346.7	2253.3	2186.4	2161.5	2149.7	2127.6
5°	2829.0	2726.1	2511.4	2286.4	2105.6	1920.3	1763.7	1662.2	1653.5	1585.8	1579.2
7.5°	2829.8	2672.4	2330.5	1999.7	1724.0	1534.4	1404.9	1371.1	1330.7	1320.4	1325.5
10°	2832.0	2604.0	2136.5	1715.9	1449.0	1324.8	1276.3	1263.1	1264.5	1268.9	1269.6
12.5°	2834.9	2537.9	1935.0	1500.5	1294.7	1243.2	1238.1	1249.8	1262.4	1271.9	1274.1
15°	2838.5	2462.1	1738.7	1327.0	1217.5	1213.0	1229.9	1249.8	1267.4	1281.5	1283.7
17.5°	2834.1	2373.9	1574.1	1220.4	1174.8	1196.2	1224.1	1249.1	1265.2	1278.5	1280.0
20°	2823.9	2275.4	1415.3	1145.5	1148.3	1183.0	1213.0	1236.6	1254.2	1260.9	1266.0
22.5°	2784.2	2157.8	1277.0	1087.4	1116.7	1164.6	1200.6	1214.5	1194.7	1180.7	1184.4
25°	2716.5	2004.9	1148.3	1040.3	1088.1	1138.8	1175.6	1141.8	1125.6	1119.7	1122.7
27.5°	2632.0	1837.2	1051.3	991.0	1051.3	1110.1	1099.9	1093.9	1086.6	1077.0	1079.3
30°	2540.8	1673.3	969.0	952.8	1011.6	1045.5	1049.8	1059.4	1051.3	1036.6	1042.5
32.5°	2456.3	1518.9	906.5	920.5	983.7	978.5	1011.6	1022.7	985.2	935.9	938.1
35°	2384.2	1375.6	859.4	888.9	935.9	938.1	971.2	932.9	892.5	869.0	870.5
37.5°	2329.8	1263.8	828.6	861.6	874.8	902.8	885.2	865.3	860.2	844.0	844.7
40°	2297.5	1166.0	808.7	840.3	838.1	857.2	800.6	820.5	827.8	822.7	823.4
42.5°	2265.1	1096.9	788.1	811.0	810.2	772.7	760.2	777.1	796.2	798.4	796.9
45°	2239.4	1043.3	766.8	766.1	780.8	721.9	718.2	728.6	755.8	769.0	768.3
47.5°	2210.7	998.4	734.5	713.9	718.2	690.4	684.5	688.9	721.9	743.3	749.2
50°	2174.7	953.5	694.1	666.1	647.7	660.9	662.4	663.1	696.2	720.5	725.6
52.5°	2146.0	919.7	647.7	627.1	605.0	634.5	645.5	647.0	666.8	686.7	690.4
55°	2163.0	900.6	602.1	587.4	567.6	607.3	628.6	631.5	636.0	650.7	652.9
57.5°	2213.6	905.0	565.3	546.2	531.6	575.0	611.0	613.2	610.2	627.9	630.8
60°	2229.1	902.8	538.2	500.7	491.9	540.3	585.2	589.6	588.9	614.7	619.7
62.5°	2164.4	874.8	511.0	462.4	456.6	505.1	549.2	566.8	570.5	607.3	613.9
65°	2012.2	817.5	475.0	422.0	422.0	467.6	514.7	538.9	549.2	598.4	605.8
67.5°	1811.5	749.9	438.2	387.4	385.9	431.6	477.9	502.8	519.1	585.9	590.4
70°	1503.4	658.7	392.6	349.9	349.9	391.1	433.0	463.1	486.7	562.4	562.4
72.5°	1030.0	547.7	337.5	307.3	308.0	346.2	388.9	422.7	450.7	515.4	516.9
75°	651.4	427.9	277.2	261.8	264.7	300.7	344.8	380.1	436.0	509.5	511.7
77.5°	346.2	300.7	220.6	216.9	220.6	253.6	302.9	351.4	437.5	441.8	434.5
80°	224.3	213.2	174.2	166.9	168.3	204.4	269.8	333.8	351.4	355.8	339.7
82.5°	122.1	135.3	123.5	116.2	116.2	159.5	230.1	265.4	252.2	209.5	200.0
85°	52.2	63.2	64.0	55.9	53.6	98.5	154.4	144.9	134.5	128.6	127.2
87.5°	14.7	20.6	20.6	15.4	11.7	27.2	30.9	8.8	0.0	0.7	1.5
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)