

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: P651773

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651773  
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-SA3A-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA 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: 10359.4 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

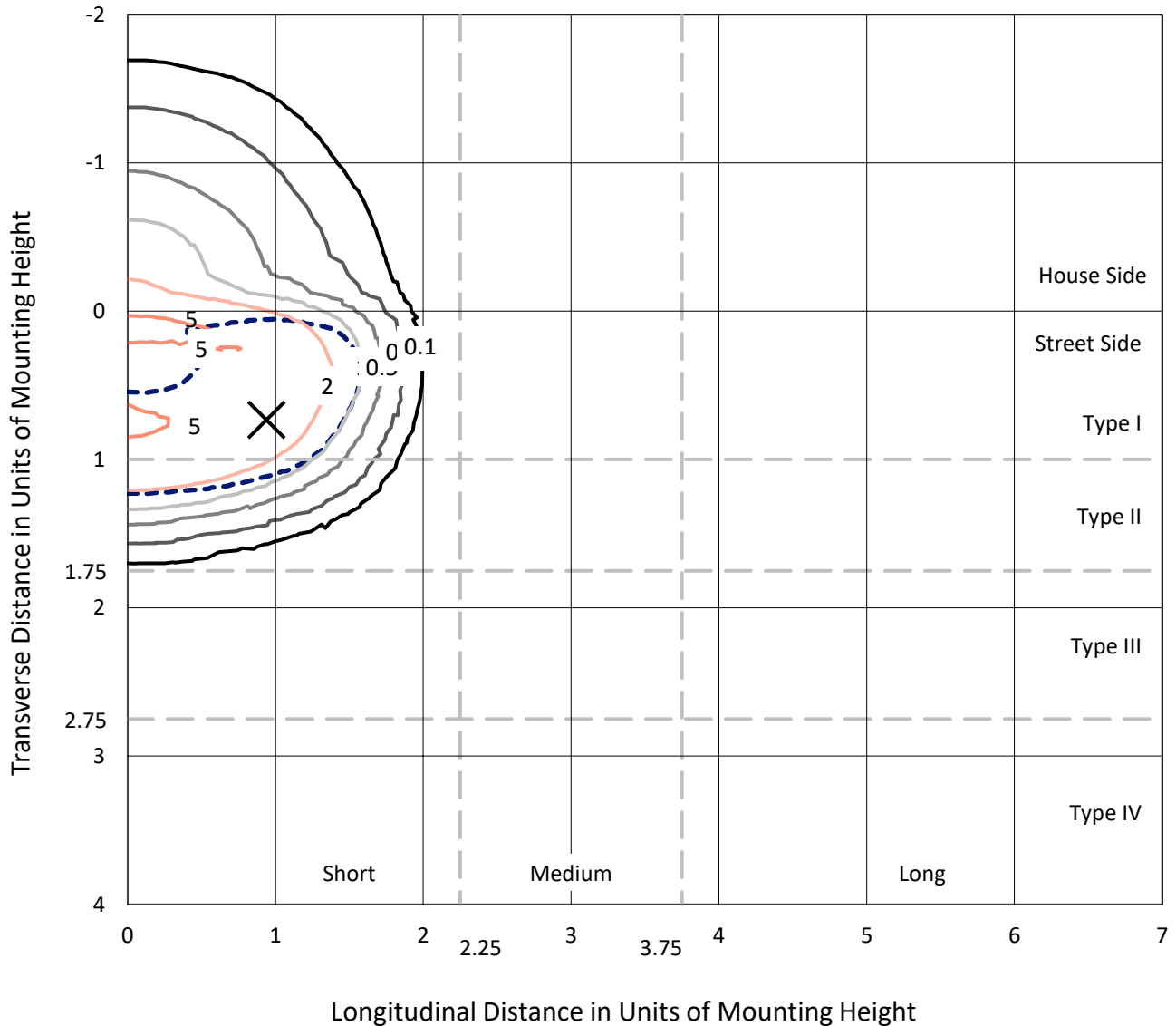
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

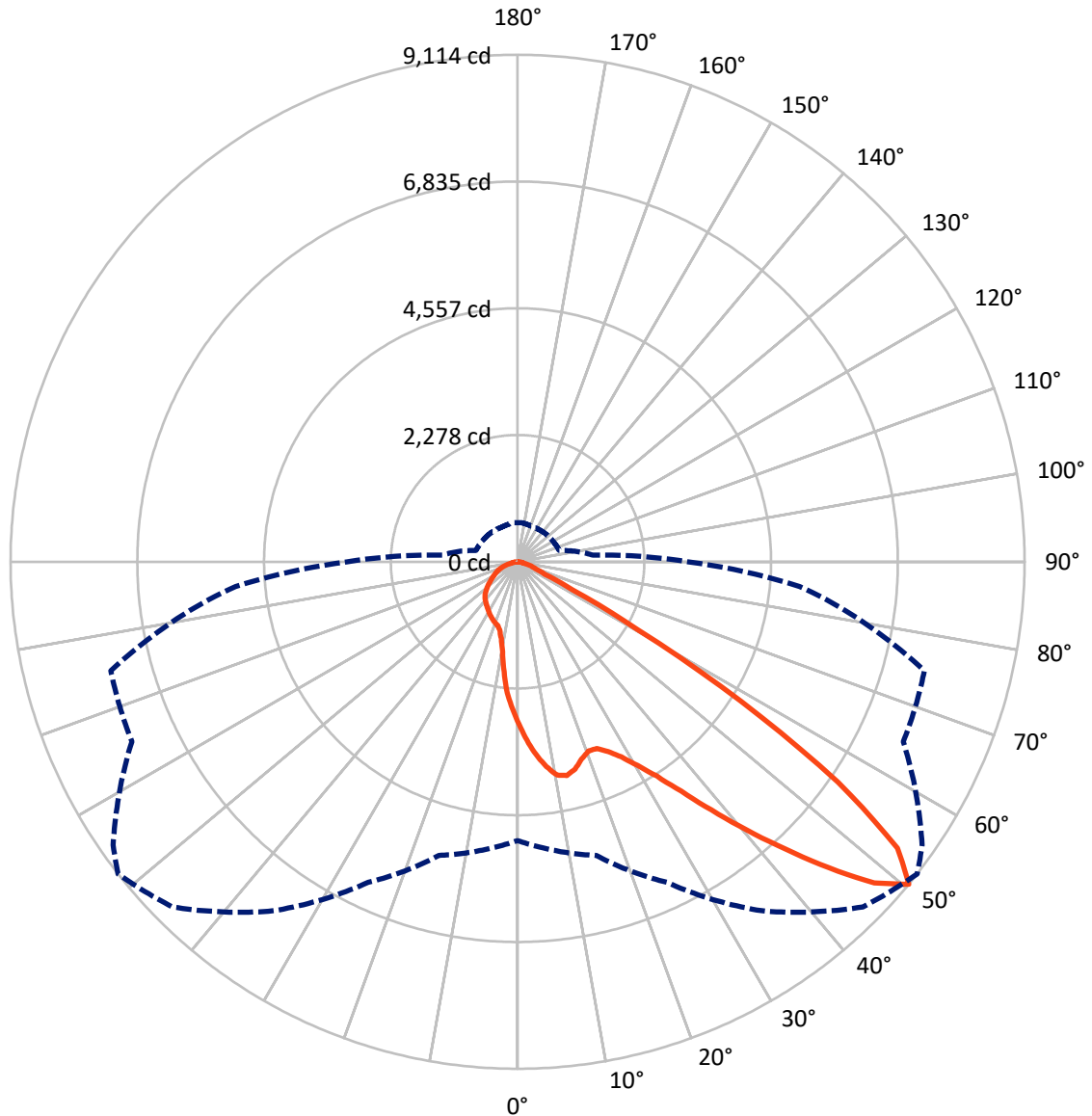
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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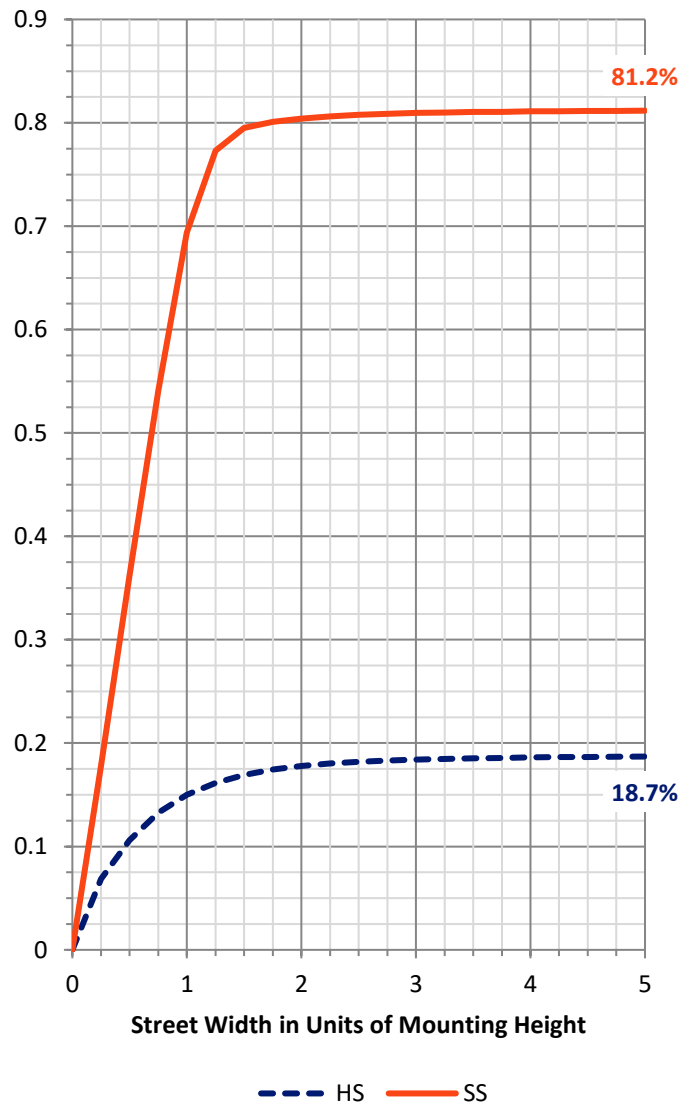
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1947.3	0.0	1947.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8412.1	0.0	8412.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	10359.4	0.0	10359.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.2	2.6
10°-20°	721.4	7.0
20°-30°	1215.2	11.7
30°-40°	2039.1	19.7
40°-50°	3119.4	30.1
50°-60°	2274.3	22.0
60°-70°	506.1	4.9
70°-80°	182.5	1.8
80°-90°	32.3	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°	10359.4	100.0
0°-180°	10359.4	100.0

**Coefficient of Utilization**

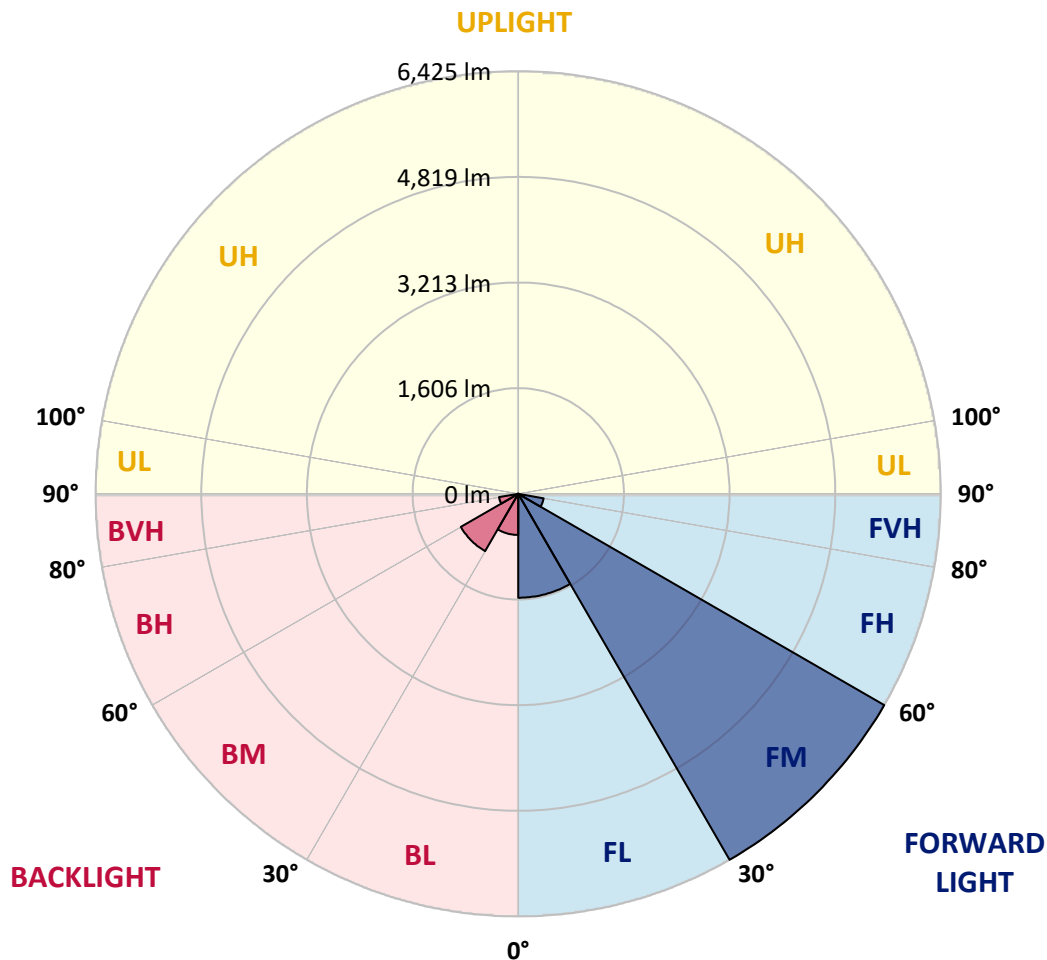


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.2	15.3			
FM (30°-60°)	6425.4	62.0			
FH (60°-80°)	392.0	3.8			G0/660
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	625.5	6.0	B2/1000		
BM (30°-60°)	1007.3	9.7	B2/2500		
BH (60°-80°)	296.7	2.9	B1/500		G1/500
BVH (80°-90°)	17.8	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°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	3438.3	3372.1	3379.6	3332.1	3281.0	3265.9	3213.5	3163.6	3126.2	3046.3	2972.6
5°	3757.8	3737.9	3708.0	3670.5	3631.8	3536.9	3483.2	3420.8	3283.4	3159.9	3037.5
7.5°	3804.1	3800.3	3816.5	3816.5	3830.3	3794.1	3717.9	3674.2	3528.2	3327.2	3099.9
10°	3479.5	3490.7	3569.4	3671.7	3814.0	3912.7	3900.2	3889.0	3729.2	3454.5	3173.6
12.5°	3221.0	3196.1	3242.2	3329.7	3543.1	3781.6	3942.6	3943.9	3902.7	3658.0	3227.3
15°	3074.9	3092.4	3104.9	3146.1	3307.1	3583.1	3866.5	3950.2	4131.2	3801.6	3312.2
17.5°	3168.6	3109.9	3107.4	3117.4	3199.8	3407.1	3725.4	3869.0	4256.0	3986.3	3417.1
20°	3290.9	3289.7	3254.8	3242.2	3241.0	3425.8	3633.0	3827.8	4322.2	4226.0	3523.2
22.5°	3505.7	3505.7	3448.3	3420.8	3362.1	3513.2	3645.5	3777.9	4432.1	4390.9	3574.3
25°	3865.2	3806.5	3708.0	3640.5	3606.8	3660.5	3777.9	3896.4	4528.2	4565.6	3680.5
27.5°	4197.3	4104.9	4056.2	3940.2	3895.2	3864.0	3971.4	4091.2	4640.6	4837.8	3737.9
30°	4574.4	4558.1	4470.8	4320.9	4209.8	4152.4	4251.0	4369.6	4846.5	5116.2	3870.2
32.5°	5248.5	5101.3	4982.6	4799.1	4618.1	4495.7	4593.1	4671.8	5188.6	5407.1	4015.0
35°	5976.4	5929.0	5724.2	5393.3	5116.2	5006.3	5063.7	5122.4	5586.8	5851.5	4258.5
37.5°	6691.8	6626.8	6458.3	6179.9	5842.8	5619.3	5660.5	5729.2	6033.8	6450.8	4555.6
40°	7206.1	7126.2	7041.4	7000.1	6665.5	6359.6	6335.9	6353.4	6638.1	7012.6	4885.2
42.5°	7243.6	7342.2	7368.4	7534.4	7455.8	7204.8	7058.8	7062.5	7214.9	7568.2	5218.6
45°	7164.9	7073.8	7267.3	7720.5	7980.2	8097.6	7851.6	7820.4	7571.9	7890.3	5384.6
47.5°	6339.7	6364.7	6691.8	7408.4	8158.7	8683.1	8625.6	8522.0	7762.9	7879.1	5358.4
50°	5011.4	5162.4	5465.7	6358.4	7659.3	8775.4	9113.7	8874.1	7649.3	7569.4	5091.2
52.5°	3337.2	3399.6	3599.3	4751.6	6158.6	7844.1	8552.0	8606.9	7544.4	7163.6	4752.9
55°	1485.7	1480.7	1761.6	2482.0	3864.0	5968.9	6987.6	7322.3	7141.2	6750.5	4423.3
57.5°	629.2	650.4	765.3	1072.4	1900.2	3601.8	4734.2	5027.6	5492.0	5543.2	3393.4
60°	425.7	428.2	459.4	536.8	795.2	1691.7	2483.2	2835.3	3167.4	3144.8	1800.2
62.5°	334.5	343.3	367.0	398.3	471.9	767.8	1111.1	1307.2	1328.4	1117.4	682.9
65°	285.9	287.1	310.8	337.1	369.5	447.0	535.5	545.6	551.8	531.8	501.9
67.5°	236.0	238.4	257.2	287.1	317.1	342.1	367.0	379.5	408.2	464.4	456.9
70°	187.3	191.0	207.2	232.2	259.7	274.7	305.9	317.1	343.3	387.0	404.5
72.5°	142.3	143.6	157.3	174.8	199.7	214.7	240.9	253.5	270.9	308.4	324.6
75°	102.3	106.1	116.1	124.8	128.6	138.6	163.6	177.3	202.3	218.5	219.8
77.5°	53.7	56.2	58.7	58.7	71.1	89.9	106.1	113.6	131.1	143.6	137.3
80°	21.2	22.5	28.7	38.7	50.0	64.9	76.2	79.9	94.9	102.3	106.1
82.5°	12.4	13.7	18.8	27.5	36.2	46.2	54.9	58.7	68.6	77.4	79.9
85°	6.2	7.5	11.3	17.5	23.7	28.7	27.5	26.2	26.2	25.0	26.2
87.5°	2.5	2.5	3.8	3.8	3.8	5.0	6.2	6.2	6.2	7.5	7.5
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°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2923.9	2873.9	2827.8	2742.8	2650.5	2624.3	2516.9	2478.2	2450.8	2418.3	2408.3
5°	2938.9	2872.7	2724.2	2553.1	2417.0	2242.3	2127.4	2003.8	1913.9	1891.4	1885.2
7.5°	2970.1	2856.5	2600.5	2342.1	2063.7	1826.5	1645.5	1548.1	1461.9	1456.9	1448.2
10°	3005.1	2807.8	2465.7	2059.9	1704.1	1484.4	1375.8	1333.3	1312.1	1307.2	1304.6
12.5°	3033.7	2797.8	2314.7	1785.3	1449.5	1317.1	1284.6	1280.9	1289.7	1292.2	1297.2
15°	3046.3	2757.9	2132.4	1539.4	1290.9	1242.2	1255.9	1270.9	1277.1	1293.4	1280.9
17.5°	3070.0	2706.7	1907.6	1344.6	1202.3	1211.0	1234.8	1252.2	1262.2	1273.4	1257.2
20°	3082.4	2660.5	1696.6	1228.4	1171.1	1187.3	1219.8	1233.5	1245.9	1251.0	1232.2
22.5°	3071.2	2565.6	1510.6	1134.8	1141.1	1162.3	1191.0	1206.0	1198.5	1178.6	1167.3
25°	3041.2	2432.0	1317.1	1075.0	1098.7	1136.1	1158.6	1147.4	1133.6	1122.4	1118.6
27.5°	3040.0	2268.4	1177.3	1020.0	1062.4	1113.7	1106.2	1096.2	1102.4	1093.6	1083.6
30°	3046.3	2109.9	1062.4	988.8	1036.2	1061.2	1069.9	1059.9	1067.4	1051.2	1056.2
32.5°	3013.8	1955.1	987.5	952.6	1005.0	1003.7	1032.5	1040.0	1022.5	988.8	993.8
35°	3027.5	1830.3	923.8	936.4	970.1	970.1	992.5	983.8	937.6	917.6	922.6
37.5°	3122.4	1707.9	892.6	913.9	936.4	946.3	938.8	901.4	890.1	890.1	892.6
40°	3212.3	1603.0	873.9	908.9	905.2	911.4	856.5	860.2	860.2	861.4	855.2
42.5°	3292.2	1531.9	858.9	878.9	885.2	852.7	819.0	815.3	824.0	822.8	817.7
45°	3320.9	1473.2	837.7	845.2	850.2	796.5	780.3	772.8	782.8	786.5	791.5
47.5°	3211.0	1424.5	814.0	799.0	789.0	754.0	732.8	719.1	731.6	752.9	757.8
50°	3070.0	1360.8	776.6	747.8	726.6	711.7	696.6	682.9	691.6	706.6	702.9
52.5°	2861.5	1260.9	729.1	699.1	663.0	666.7	653.0	645.5	650.4	650.4	646.7
55°	2564.4	1036.2	649.2	628.0	598.0	608.0	610.5	600.5	590.6	599.3	591.8
57.5°	1750.4	731.6	579.3	579.3	549.3	563.0	561.8	538.1	514.4	516.9	511.8
60°	1012.5	583.1	534.4	529.3	498.1	509.4	511.8	495.6	459.4	462.0	456.9
62.5°	575.6	498.1	466.9	459.4	453.2	463.1	463.1	441.9	410.7	413.3	408.2
65°	489.4	462.0	417.0	415.7	413.3	415.7	405.8	383.2	355.8	344.6	345.8
67.5°	444.5	427.0	383.2	372.1	364.6	363.3	344.6	323.4	310.8	300.9	299.6
70°	389.6	375.8	343.3	328.3	320.8	303.3	284.7	270.9	253.5	248.4	253.5
72.5°	308.4	307.1	294.6	278.4	262.1	248.4	232.2	213.4	197.3	193.5	184.8
75°	213.4	216.0	218.5	216.0	202.3	184.8	166.0	151.0	131.1	119.8	117.3
77.5°	139.9	143.6	147.3	142.3	133.6	117.3	104.9	86.1	71.1	62.4	61.1
80°	102.3	107.4	109.8	106.1	96.1	83.7	69.9	54.9	43.7	36.2	36.2
82.5°	78.6	83.7	86.1	79.9	69.9	60.0	50.0	38.7	29.9	23.7	22.5
85°	27.5	26.2	31.2	32.5	38.7	36.2	29.9	22.5	17.5	12.4	11.3
87.5°	7.5	7.5	8.7	8.7	7.5	6.2	6.2	6.2	5.0	3.8	3.8
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)