

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: P652267

Luminaire Tested: **GALN-SA3B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10657.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

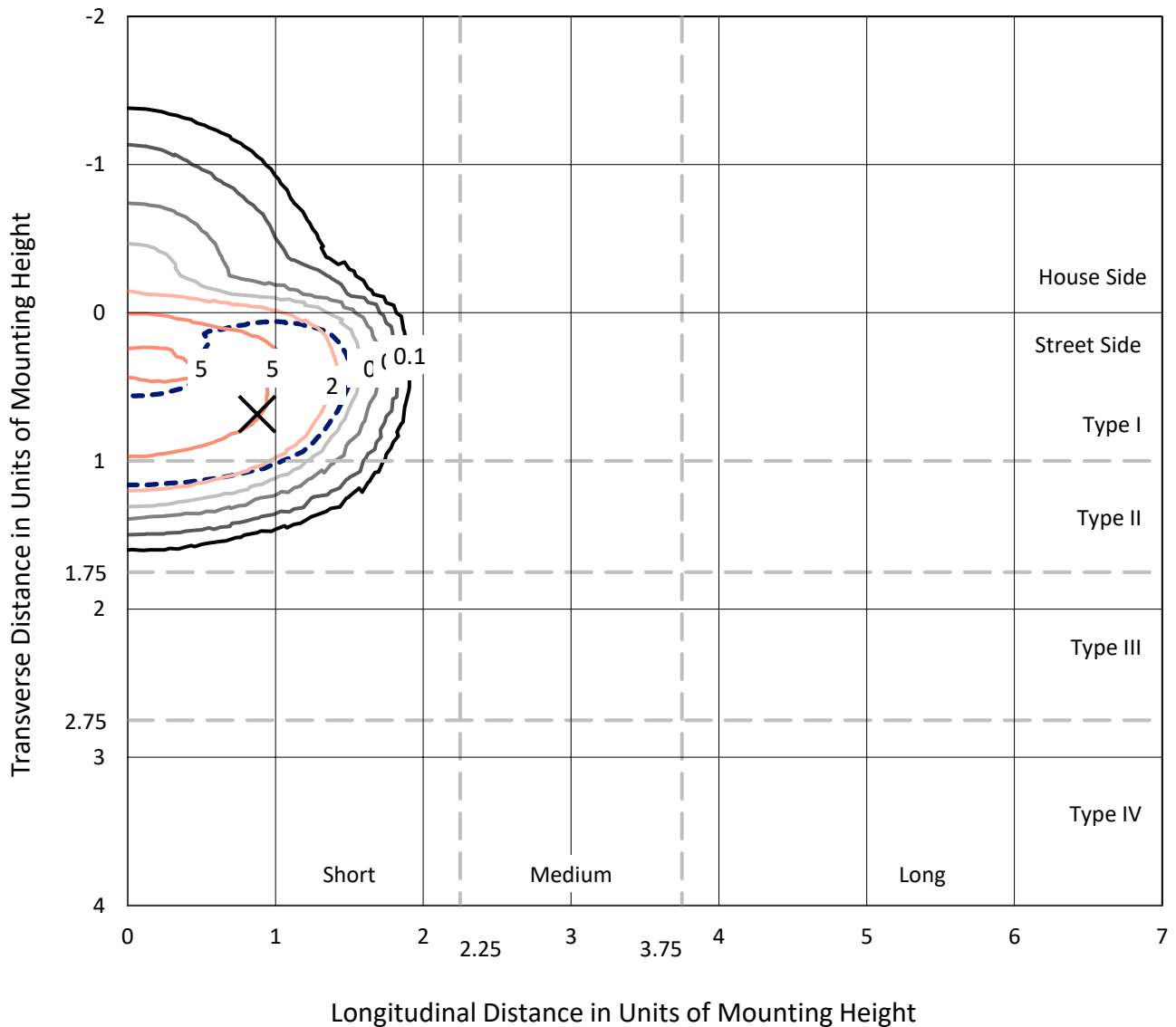
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

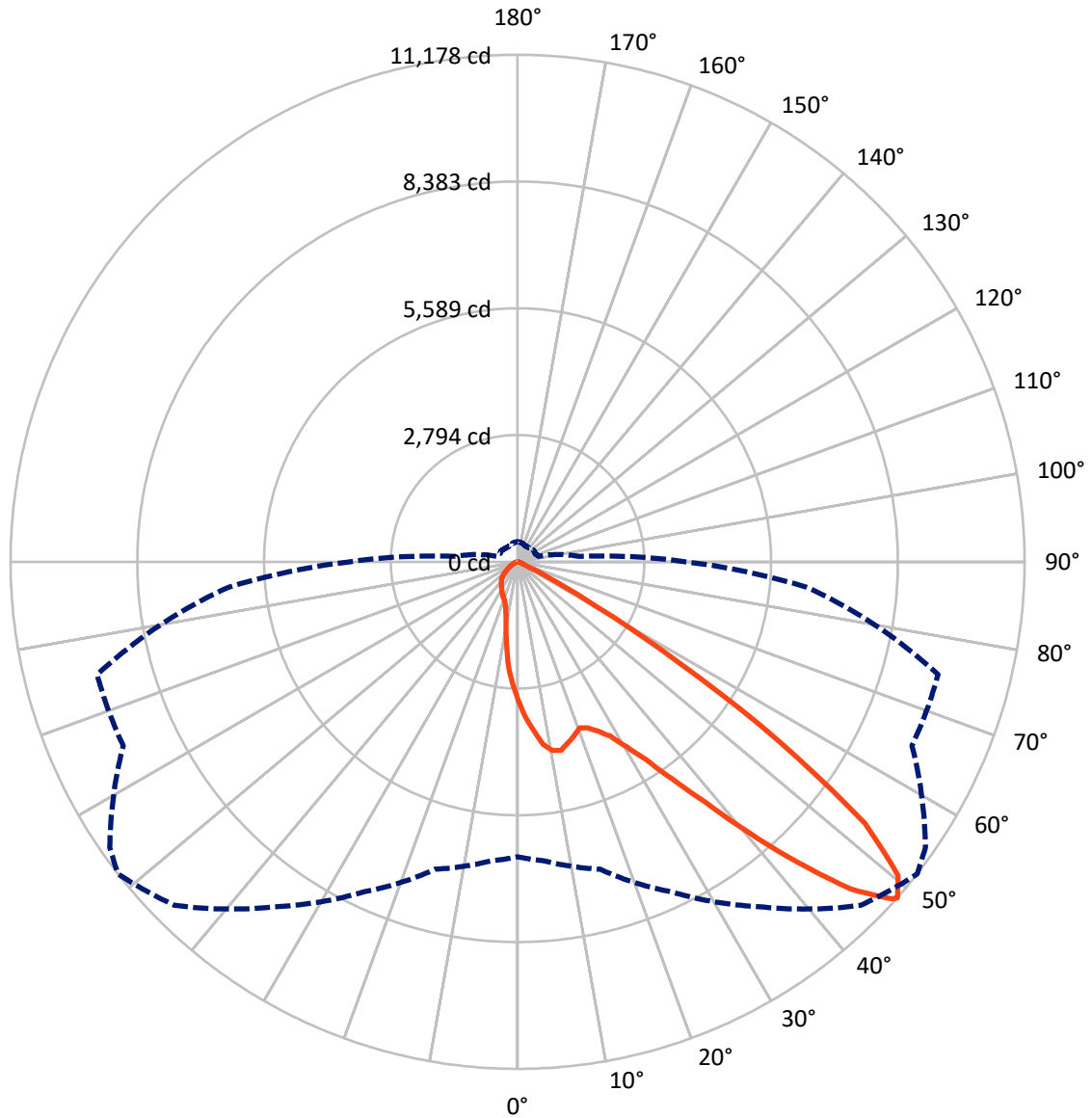
× Max cd
 - - - 1/2 Max cd



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 48-Deg Vertical

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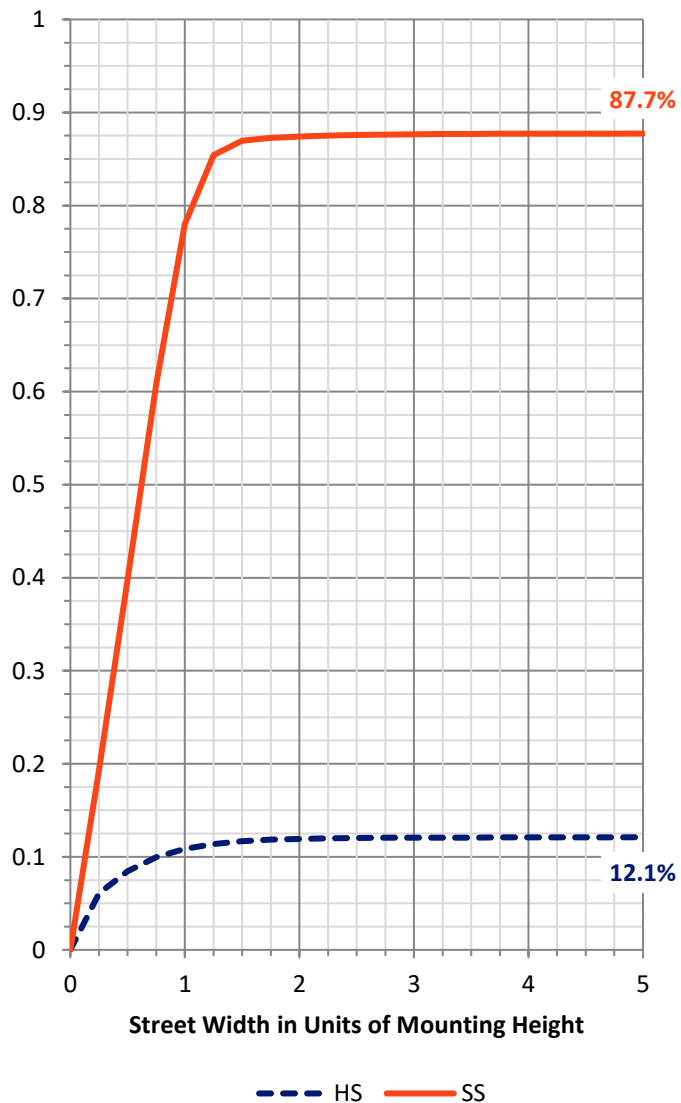
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1297.6	0.0	1297.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9359.5	0.0	9359.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	10657.1	0.0	10657.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	2.6
10°-20°	736.2	6.9
20°-30°	1256.9	11.8
30°-40°	2314.6	21.7
40°-50°	3594.6	33.7
50°-60°	2163.3	20.3
60°-70°	250.2	2.3
70°-80°	48.4	0.5
80°-90°	11.2	0.1
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°	10657.1	100.0
0°-180°	10657.1	100.0

Coefficient of Utilization

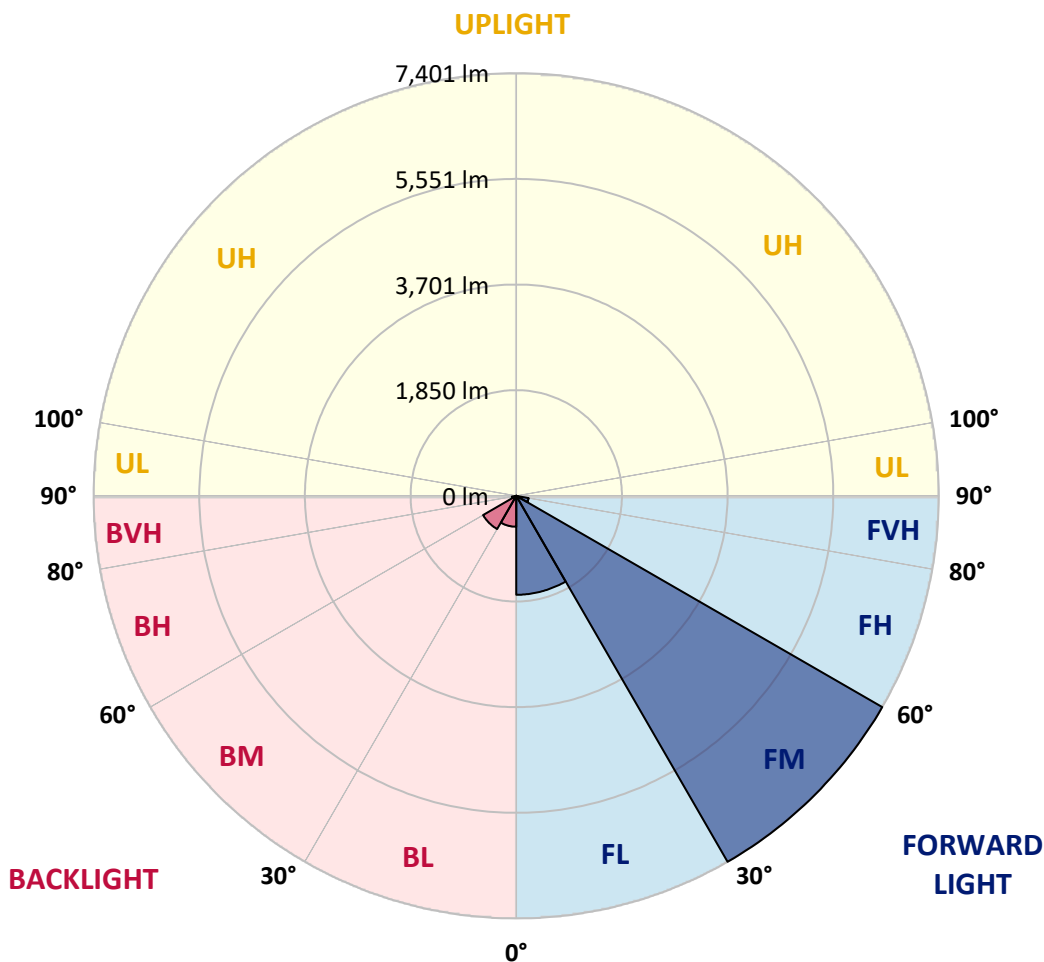


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.7	16.3			
FM (30°-60°)	7401.2	69.4			
FH (60°-80°)	220.3	2.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	542.0	5.1	B2/1000		
BM (30°-60°)	671.4	6.3	B1/1000		
BH (60°-80°)	78.3	0.7	B0/110		G0/110
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6
2.5°	3730.1	3644.6	3652.5	3596.5	3563.9	3511.1	3439.6	3425.6	3347.9	3242.3	3135.1
5°	4065.6	4045.5	4071.9	3991.1	3994.2	3907.2	3739.4	3742.5	3563.9	3391.4	3225.2
7.5°	4087.4	4040.8	4067.2	4138.7	4180.6	4165.1	4070.4	3988.0	3818.6	3565.4	3323.0
10°	3660.2	3748.8	3776.7	3894.8	4062.5	4239.6	4228.8	4233.4	4092.1	3761.2	3407.0
12.5°	3403.9	3344.8	3439.6	3511.1	3764.3	4107.6	4264.5	4298.7	4309.6	3950.7	3490.8
15°	3287.3	3287.3	3302.9	3323.0	3506.4	3823.4	4143.4	4242.8	4477.4	4199.3	3622.9
17.5°	3360.4	3357.3	3379.0	3337.1	3405.4	3649.4	4031.5	4144.9	4665.4	4443.2	3727.0
20°	3582.5	3593.4	3579.4	3458.2	3462.9	3646.2	3907.2	4085.8	4792.8	4654.5	3865.2
22.5°	3891.6	3897.9	3818.6	3686.6	3647.8	3737.9	3978.7	4115.3	4895.3	4907.7	3907.2
25°	4249.0	4224.2	4208.6	4022.2	3904.1	3981.8	4140.2	4219.5	4959.0	5125.2	4026.9
27.5°	4744.6	4694.9	4600.1	4433.8	4346.9	4236.5	4350.0	4480.5	5140.8	5429.7	4157.3
30°	5476.3	5432.8	5247.9	5033.6	4805.1	4696.4	4732.1	4803.6	5468.5	5782.4	4329.8
32.5°	6577.8	6486.1	6218.9	5810.3	5499.6	5199.7	5190.5	5266.6	5762.2	6270.2	4534.8
35°	7791.1	7763.2	7370.1	6949.1	6347.9	5884.9	5892.6	5933.1	6324.6	6910.2	4803.6
37.5°	8597.5	8751.2	8501.1	8049.0	7544.1	6882.3	6714.5	6728.5	7096.7	7668.4	5288.3
40°	9220.4	9089.9	9119.4	9013.8	8668.9	8218.3	7847.0	7774.0	7990.0	8507.3	5769.9
42.5°	8948.5	8954.7	9136.5	9386.7	9472.1	9439.5	9060.3	8922.1	8754.3	9194.0	6228.2
45°	8181.1	8341.1	8577.2	9239.1	9820.1	10365.4	10290.8	10060.9	9282.5	9737.8	6492.4
47.5°	6956.8	6950.6	7337.5	8198.2	9489.2	10766.2	11104.9	10943.3	9657.0	9677.1	6437.9
48°	6504.8	6616.7	7015.9	8028.8	9279.4	10707.2	11177.9	10974.4	9593.3	9596.4	6391.3
50°	4808.2	4788.1	5285.2	6528.1	8288.2	10060.9	10870.3	11028.7	9591.7	9187.8	6065.1
52.5°	2540.1	2627.1	2989.1	4104.5	5860.0	8233.9	9588.6	9835.6	9253.0	8519.8	5595.9
55°	1079.8	975.6	1253.8	1853.4	3296.6	5501.1	7034.5	7584.5	7823.7	7539.5	4895.3
57.5°	385.3	421.0	484.8	697.5	1385.8	3010.8	4194.7	4621.9	5420.4	5532.3	3335.5
60°	247.0	251.7	271.9	320.0	520.4	1160.5	1990.1	2330.3	2692.3	2779.3	1556.7
62.5°	191.1	192.7	201.9	209.7	247.0	450.5	747.2	885.6	919.7	790.8	408.6
65°	160.0	161.6	164.7	164.7	175.5	211.3	261.0	287.4	279.6	276.5	231.4
67.5°	122.7	125.8	132.0	132.0	138.3	128.9	144.5	153.8	174.0	211.3	197.3
70°	96.3	97.9	102.5	105.6	105.6	93.2	104.1	113.5	127.4	156.9	155.3
72.5°	74.6	77.7	80.8	80.8	76.1	63.7	74.6	82.3	91.7	108.7	105.6
75°	57.4	57.4	59.0	48.2	37.3	32.6	45.1	54.4	68.4	71.5	59.0
77.5°	15.6	17.1	15.6	14.0	15.6	23.3	29.5	34.1	43.5	43.5	38.9
80°	0.0	1.5	4.6	9.3	15.6	21.8	26.4	29.5	34.1	37.3	35.7
82.5°	0.0	1.5	4.6	9.3	14.0	17.1	23.3	24.9	28.0	32.6	32.6
85°	0.0	1.5	3.1	6.2	9.3	10.8	10.8	9.3	9.3	7.7	6.2
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
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°	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6
2.5°	3093.1	3045.0	2971.9	2857.0	2746.7	2675.2	2606.8	2530.7	2488.8	2485.7	2462.4
5°	3130.5	3021.7	2847.7	2650.4	2439.1	2257.3	2074.0	1954.4	1847.2	1788.1	1777.3
7.5°	3150.6	3009.3	2728.0	2397.2	2036.7	1740.0	1534.9	1384.2	1325.2	1281.7	1280.2
10°	3192.6	2987.5	2549.4	2061.5	1615.7	1315.8	1174.5	1106.2	1073.5	1061.1	1042.4
12.5°	3223.6	2947.1	2366.1	1716.6	1277.1	1090.6	1028.5	1012.9	1014.5	1020.7	1012.9
15°	3267.1	2911.4	2119.1	1409.1	1071.9	981.9	981.9	985.0	1006.7	1009.8	1008.3
17.5°	3264.0	2841.5	1864.2	1160.5	947.6	935.3	939.9	969.4	983.4	988.1	977.2
20°	3301.3	2776.2	1601.7	991.2	877.8	896.4	927.5	935.3	952.3	955.5	943.0
22.5°	3290.4	2613.1	1357.8	857.6	824.9	860.7	891.7	901.0	896.4	887.1	885.6
25°	3270.2	2473.3	1134.1	769.0	786.1	824.9	854.5	837.4	828.0	829.6	831.2
27.5°	3234.5	2296.2	949.2	706.9	733.3	790.8	789.2	783.0	792.3	784.6	792.3
30°	3228.3	2119.1	797.0	650.9	694.4	736.4	739.5	750.3	761.3	747.2	761.3
32.5°	3237.6	1924.9	688.2	616.8	671.1	672.7	706.9	717.7	710.0	678.9	682.1
35°	3309.1	1775.7	609.0	598.1	633.9	635.4	668.0	654.0	619.9	601.2	612.1
37.5°	3459.8	1651.5	571.7	581.0	584.2	604.3	605.9	577.9	581.0	579.4	585.7
40°	3652.5	1556.7	545.3	565.5	562.4	576.3	520.4	536.0	549.9	554.6	557.8
42.5°	3784.5	1488.3	528.2	540.7	534.5	509.6	478.5	494.0	504.9	522.0	525.1
45°	3843.5	1433.9	508.0	497.1	497.1	452.1	439.7	442.8	467.6	486.3	483.2
47.5°	3747.2	1381.1	472.3	439.7	450.5	413.3	399.3	399.3	425.7	449.0	444.3
48°	3709.9	1359.4	473.8	427.2	435.0	407.0	393.1	390.0	419.5	441.2	441.2
50°	3525.1	1278.6	433.5	393.1	377.5	374.4	365.1	368.2	386.9	407.0	407.0
52.5°	3164.6	1104.6	366.7	337.2	309.2	327.8	332.4	326.2	335.6	354.2	352.6
55°	2641.1	848.2	293.6	279.6	257.9	278.1	287.4	279.6	270.3	284.3	284.3
57.5°	1691.8	456.7	234.6	237.7	216.0	236.2	243.9	225.3	208.1	219.1	217.5
60°	762.8	273.4	192.7	188.0	174.0	197.3	209.7	188.0	164.7	172.4	180.2
62.5°	285.9	194.2	146.0	142.9	139.9	161.6	167.8	150.7	127.4	132.0	133.6
65°	209.7	170.9	116.5	105.6	111.9	127.4	124.3	107.2	91.7	91.7	94.8
67.5°	178.6	149.1	94.8	82.3	82.3	83.9	77.7	68.4	63.7	66.8	69.9
70°	139.9	118.1	74.6	63.7	57.4	51.3	45.1	43.5	38.9	43.5	42.0
72.5°	90.1	79.2	57.4	48.2	43.5	35.7	29.5	28.0	23.3	21.8	21.8
75°	48.2	48.2	45.1	38.9	34.1	28.0	23.3	18.7	12.4	9.3	9.3
77.5°	34.1	37.3	40.4	37.3	31.0	23.3	18.7	12.4	6.2	3.1	3.1
80°	32.6	37.3	40.4	35.7	31.0	23.3	17.1	9.3	4.6	1.5	1.5
82.5°	29.5	34.1	37.3	32.6	28.0	20.2	15.6	9.3	4.6	1.5	1.5
85°	6.2	7.7	9.3	9.3	10.8	14.0	10.8	7.7	3.1	1.5	1.5
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	1.5	1.5	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)