

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: P530897

Luminaire Tested: **GALN-SA6A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12124 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

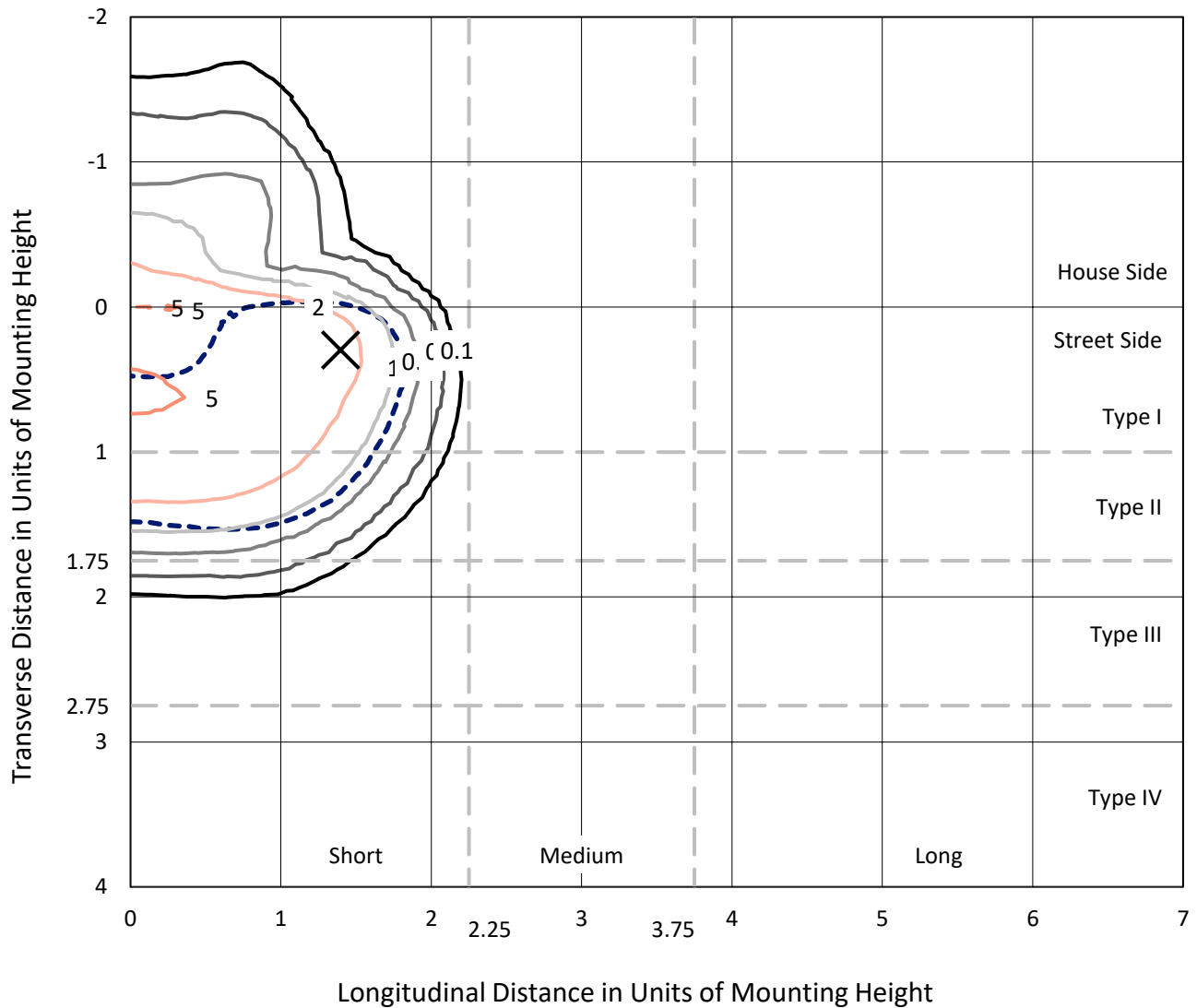
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

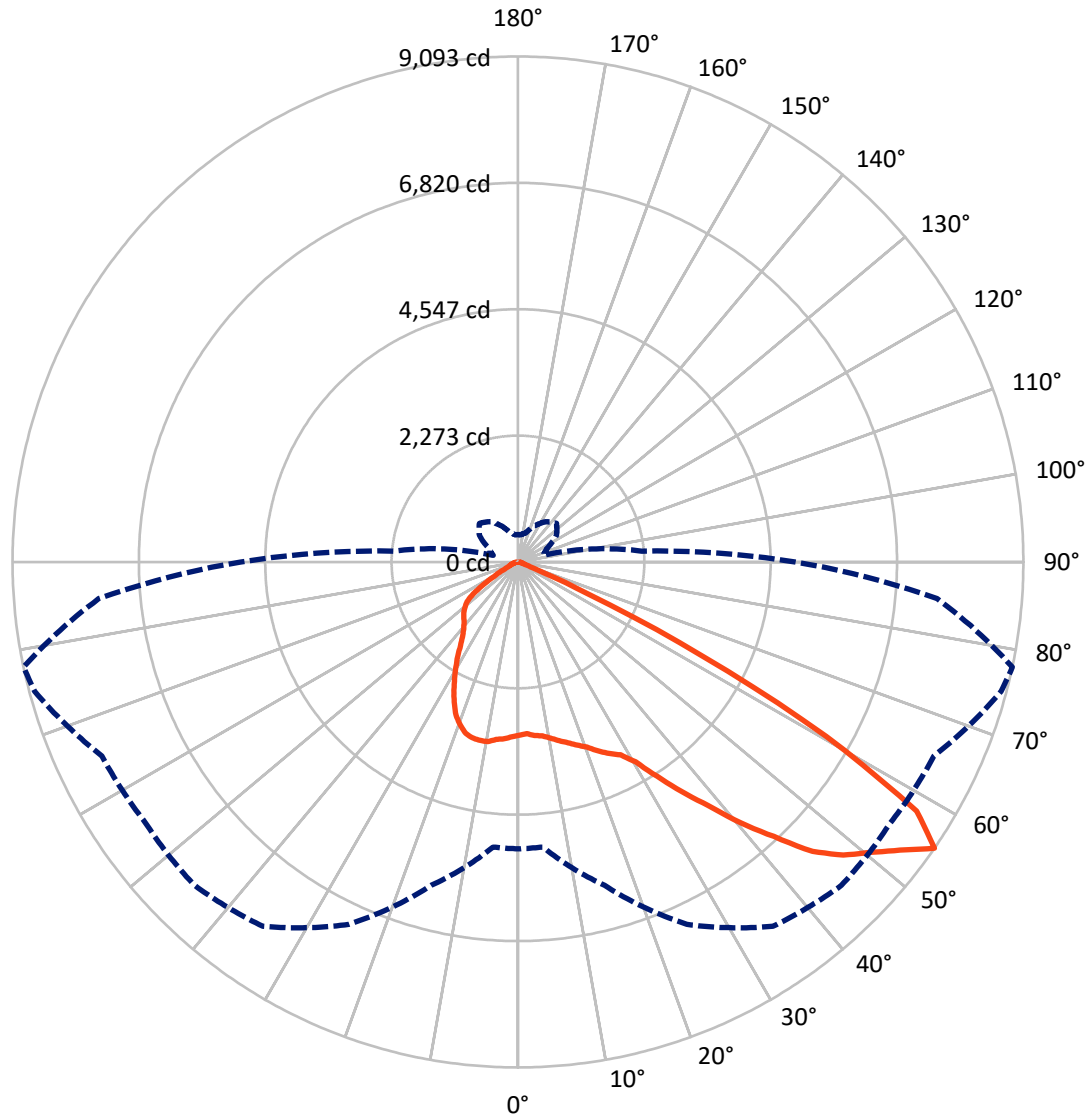
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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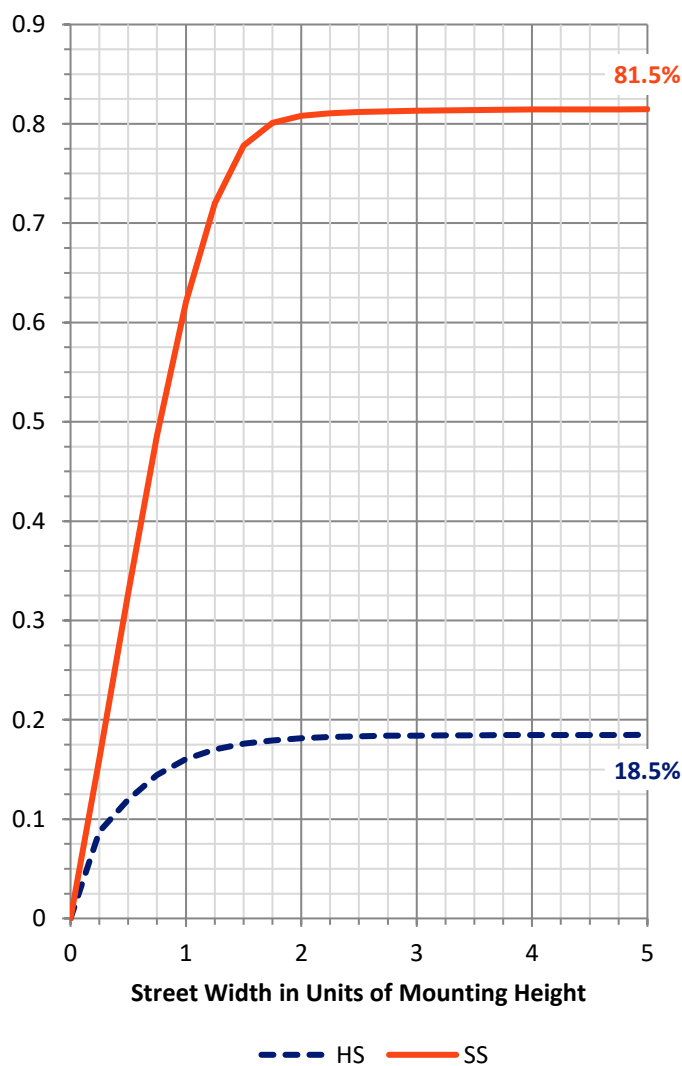
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.9	0.0	2251.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9872.1	0.0	9872.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	12124.0	0.0	12124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	2.3
10°-20°	735.6	6.1
20°-30°	1289.4	10.6
30°-40°	2126.0	17.5
40°-50°	3093.6	25.5
50°-60°	3505.3	28.9
60°-70°	1002.2	8.3
70°-80°	77.8	0.6
80°-90°	16.2	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°	12124.0	100.0
0°-180°	12124.0	100.0

Coefficient of Utilization



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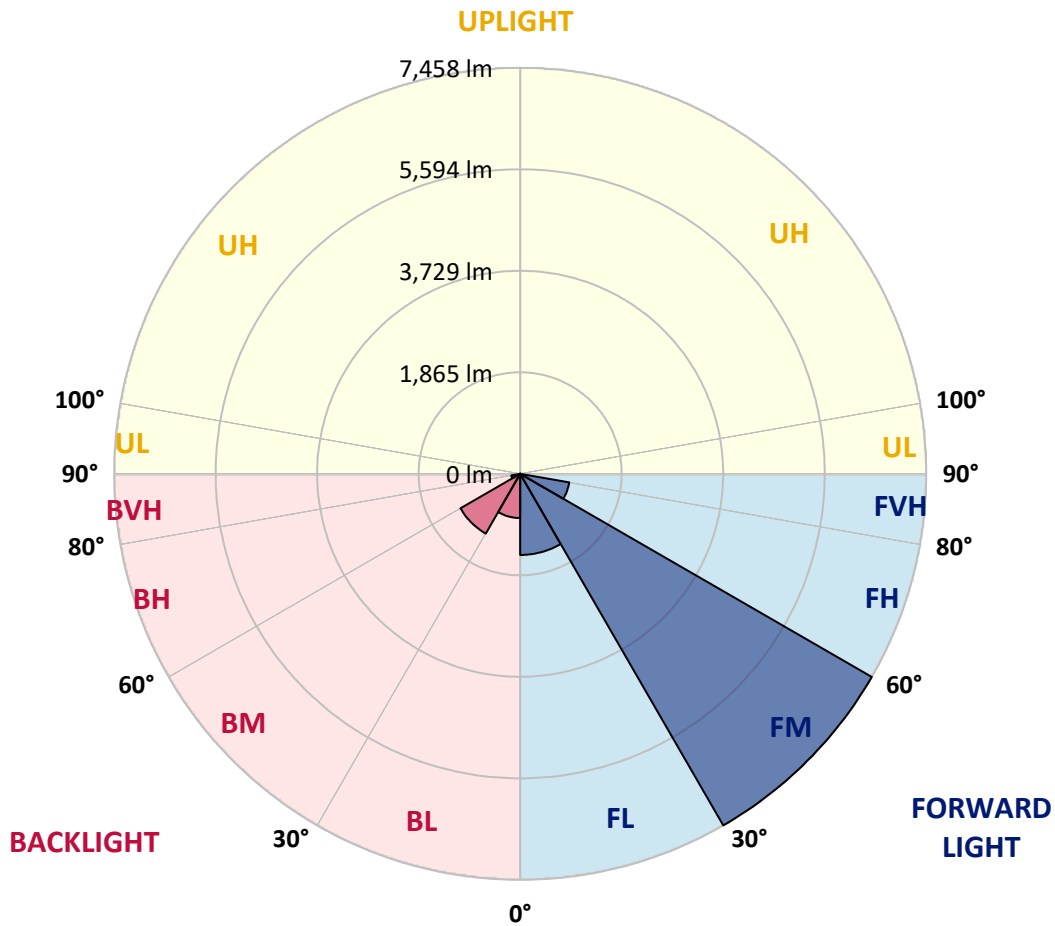
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.4	12.3			
FM (30°-60°)	7458.1	61.5			
FH (60°-80°)	915.7	7.6			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	812.5	6.7	B2/1000		
BM (30°-60°)	1266.7	10.4	B2/2500		
BH (60°-80°)	164.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1
2.5°	2930.7	2958.8	2963.2	2997.9	2995.7	3054.2	3071.6	3073.7	3112.8	3093.2	3143.1
5°	2848.3	2833.1	2826.6	2887.3	2904.7	2956.7	3000.0	3026.0	3106.2	3134.4	3186.5
7.5°	2774.6	2774.6	2778.9	2833.1	2826.6	2893.8	2939.3	3019.5	3136.6	3160.4	3223.3
10°	2703.1	2677.1	2709.6	2765.9	2813.6	2844.0	2939.3	3015.2	3151.8	3221.1	3307.8
12.5°	2666.2	2679.2	2683.6	2724.7	2776.8	2867.8	2919.8	3045.6	3260.2	3301.3	3394.5
15°	2898.2	2872.1	2809.3	2772.4	2815.8	2859.1	2989.2	3117.1	3316.5	3375.0	3479.1
17.5°	3166.9	3145.3	3093.2	2993.5	2896.0	2976.2	3078.1	3195.1	3377.2	3463.9	3617.8
20°	3518.1	3483.4	3431.4	3236.3	3151.8	3065.1	3173.4	3312.2	3476.9	3555.0	3713.2
22.5°	3936.5	3936.5	3819.4	3583.1	3407.6	3325.2	3370.7	3450.9	3587.5	3693.7	3849.8
25°	4372.2	4359.2	4252.9	4008.0	3711.0	3613.5	3665.5	3721.9	3758.7	3817.2	3921.3
27.5°	4870.7	4794.9	4660.5	4389.5	4127.2	3938.6	3995.0	3945.1	3899.6	3930.0	4079.5
30°	5208.9	5256.6	5085.3	4825.2	4578.1	4367.8	4378.7	4335.3	4127.2	4170.6	4259.4
32.5°	5560.0	5590.4	5495.0	5351.9	5104.8	4859.9	4771.0	4734.2	4578.1	4597.6	4510.9
35°	5852.7	5911.2	5826.7	5763.8	5692.3	5495.0	5250.1	5369.3	5117.8	5070.1	4844.7
37.5°	6121.5	6104.1	6203.8	6138.8	6123.6	5984.9	5716.1	5739.9	5570.9	5560.0	5299.9
40°	6362.1	6366.4	6503.0	6533.3	6472.6	6225.5	5835.3	6023.9	6160.5	6173.5	5839.7
42.5°	6561.5	6620.0	6737.1	6982.0	6891.0	6479.1	5958.9	6164.8	6672.0	6752.2	6351.2
45°	6734.9	6854.1	6999.4	7218.3	7166.3	6839.0	6266.7	6455.3	7218.3	7428.6	6832.4
47.5°	6745.7	6901.8	7060.1	7385.2	7450.2	7031.9	6585.3	6914.8	7651.8	7879.4	7183.6
50°	6702.4	6784.8	7101.2	7454.6	7602.0	7346.2	7031.9	7300.7	8072.3	8215.4	7361.4
52.5°	6188.7	6251.5	6886.6	7519.6	7875.1	7701.7	7623.6	7838.2	8501.5	8607.8	7528.3
55°	5159.0	5148.2	6021.7	7192.3	8000.8	8228.4	8180.7	8256.6	8997.9	9093.3	7569.5
57.5°	3528.9	3726.2	4480.5	5989.2	7231.3	8104.9	8154.7	8029.0	8419.2	8456.0	6598.3
60°	1903.2	1985.6	2592.5	3997.2	5505.8	6604.8	6734.9	6507.3	6477.0	6372.9	4710.3
62.5°	756.5	797.7	1142.4	1979.1	3000.0	4014.5	4294.1	4200.9	4001.5	3728.4	2438.6
65°	359.8	385.8	567.9	925.6	1330.9	1673.4	1953.1	2039.8	1504.4	1354.8	804.2
67.5°	244.9	264.5	414.0	528.9	474.7	496.4	646.0	600.4	353.3	301.3	223.3
70°	186.4	199.4	331.7	359.8	212.4	149.6	166.9	156.1	145.2	147.4	145.2
72.5°	132.2	143.1	242.8	212.4	93.2	69.4	88.9	106.2	106.2	106.2	104.0
75°	80.2	91.0	140.9	82.4	36.9	36.9	56.4	71.5	75.9	78.0	73.7
77.5°	41.2	52.0	47.7	23.8	23.8	28.2	41.2	49.9	54.2	54.2	52.0
80°	8.7	8.7	8.7	13.0	23.8	30.3	41.2	45.5	52.0	52.0	47.7
82.5°	0.0	2.2	6.5	13.0	21.7	28.2	39.0	45.5	52.0	54.2	49.9
85°	0.0	2.2	4.3	8.7	15.2	17.3	15.2	13.0	13.0	13.0	13.0
87.5°	0.0	0.0	2.2	2.2	2.2	4.3	4.3	4.3	4.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1
2.5°	3147.4	3153.9	3143.1	3140.9	3132.3	3158.3	3095.4	3080.2	3119.3	3082.4	3091.1
5°	3188.6	3203.8	3184.3	3151.8	3104.1	3030.4	2967.5	2885.1	2846.1	2818.0	2813.6
7.5°	3219.0	3229.8	3210.3	3106.2	2963.2	2776.8	2638.0	2536.2	2456.0	2432.1	2393.1
10°	3342.5	3344.7	3247.1	3017.4	2737.7	2492.8	2280.4	2124.3	2044.1	1994.2	1972.6
12.5°	3424.9	3420.6	3223.3	2841.8	2469.0	2143.8	1901.0	1712.4	1638.7	1614.9	1599.7
15°	3528.9	3505.1	3166.9	2661.9	2122.1	1771.0	1552.0	1422.0	1415.5	1400.3	1415.5
17.5°	3611.3	3544.1	3084.6	2334.6	1790.5	1458.8	1315.8	1324.4	1341.8	1357.0	1359.1
20°	3745.7	3607.0	2896.0	2048.4	1482.7	1250.7	1248.6	1287.6	1330.9	1348.3	1365.6
22.5°	3847.6	3633.0	2694.4	1742.8	1231.2	1166.2	1203.0	1261.6	1294.1	1311.4	1337.4
25°	3884.4	3561.5	2425.6	1437.2	1109.8	1127.2	1183.5	1222.6	1263.7	1283.3	1272.4
27.5°	3921.3	3524.6	2104.8	1183.5	1044.8	1101.2	1148.9	1187.9	1200.9	1226.9	1244.2
30°	4010.2	3396.7	1816.5	1023.1	1012.3	1083.8	1118.5	1131.5	1166.2	1181.4	1181.4
32.5°	4081.7	3346.9	1510.9	947.3	1008.0	1092.5	1096.8	1096.8	1101.2	1090.3	1086.0
35°	4229.1	3175.6	1237.7	901.7	1005.8	1094.7	1105.5	1068.7	968.9	929.9	919.1
37.5°	4411.2	3065.1	1036.1	890.9	1021.0	1120.7	1138.0	999.3	869.2	806.4	795.5
40°	4632.3	2987.0	903.9	886.6	1055.6	1181.4	1129.3	945.1	776.0	685.0	680.6
42.5°	4890.2	2915.5	815.0	884.4	1099.0	1244.2	1120.7	899.6	680.6	619.9	628.6
45°	5096.2	2876.5	754.3	869.2	1114.2	1281.1	1127.2	819.4	641.6	602.6	606.9
47.5°	5256.6	2794.1	704.5	843.2	1112.0	1294.1	1068.7	786.9	622.1	633.0	643.8
50°	5260.9	2683.6	641.6	786.9	1079.5	1270.2	1001.5	756.5	617.8	663.3	685.0
52.5°	5202.4	2527.5	574.4	706.7	1003.6	1187.9	940.8	743.5	598.3	593.9	619.9
55°	4994.3	2234.9	461.7	572.3	847.6	979.8	886.6	719.7	539.7	489.9	494.2
57.5°	4036.2	1601.9	340.3	409.7	600.4	717.5	799.9	708.8	485.6	416.2	418.4
60°	2499.3	908.2	249.3	279.6	370.7	435.7	648.1	659.0	433.5	351.2	346.8
62.5°	1283.3	448.7	192.9	197.3	227.6	255.8	444.4	552.8	392.3	333.8	333.8
65°	429.2	221.1	169.1	151.7	151.7	158.2	268.8	383.7	331.7	279.6	279.6
67.5°	184.3	164.7	147.4	132.2	121.4	114.9	151.7	223.3	247.1	212.4	203.8
70°	143.1	138.7	127.9	110.6	95.4	86.7	88.9	114.9	140.9	136.6	132.2
72.5°	106.2	106.2	101.9	86.7	73.7	62.9	58.5	60.7	67.2	69.4	71.5
75°	73.7	75.9	75.9	67.2	54.2	45.5	39.0	32.5	26.0	21.7	19.5
77.5°	49.9	52.0	56.4	49.9	41.2	30.3	23.8	17.3	10.8	4.3	4.3
80°	43.4	49.9	54.2	49.9	43.4	32.5	23.8	13.0	6.5	0.0	0.0
82.5°	45.5	49.9	56.4	47.7	41.2	30.3	23.8	15.2	6.5	2.2	0.0
85°	10.8	10.8	13.0	15.2	19.5	21.7	17.3	10.8	6.5	2.2	0.0
87.5°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	0.0	0.0
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)