

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: P528635

Luminaire Tested: **GALN-SA3D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528635  
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-SA3D-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA 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: 11745.9 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

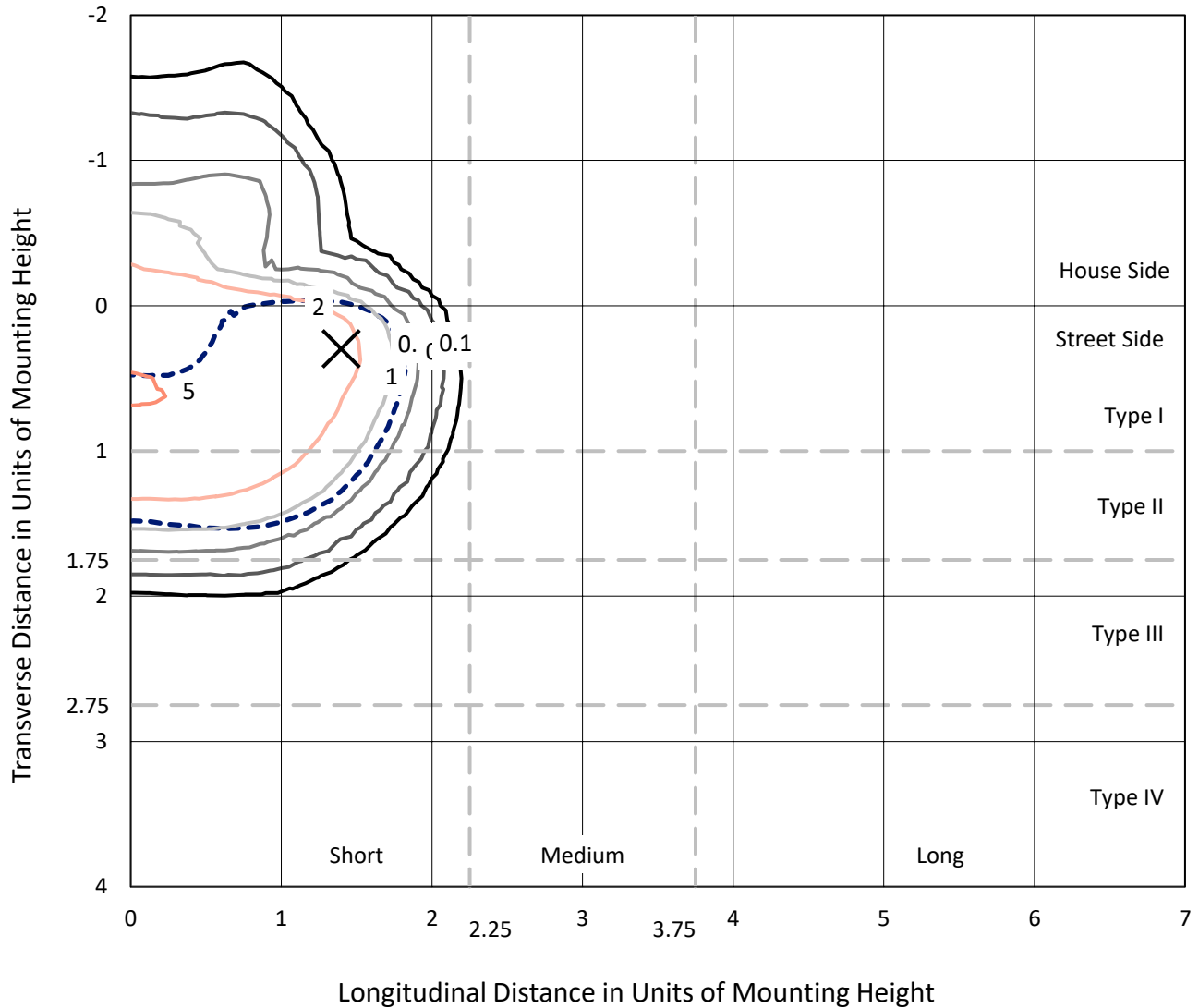
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

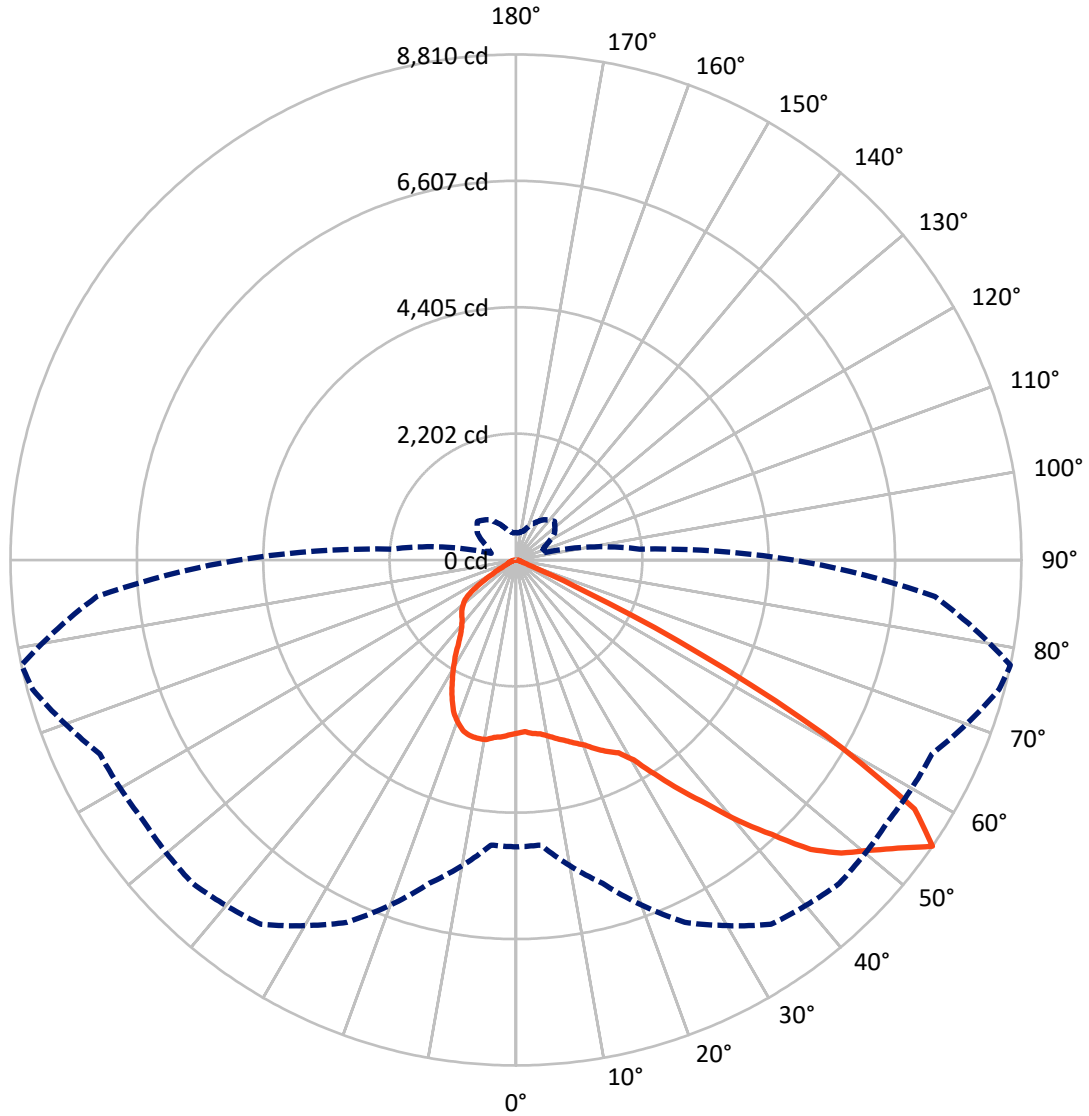
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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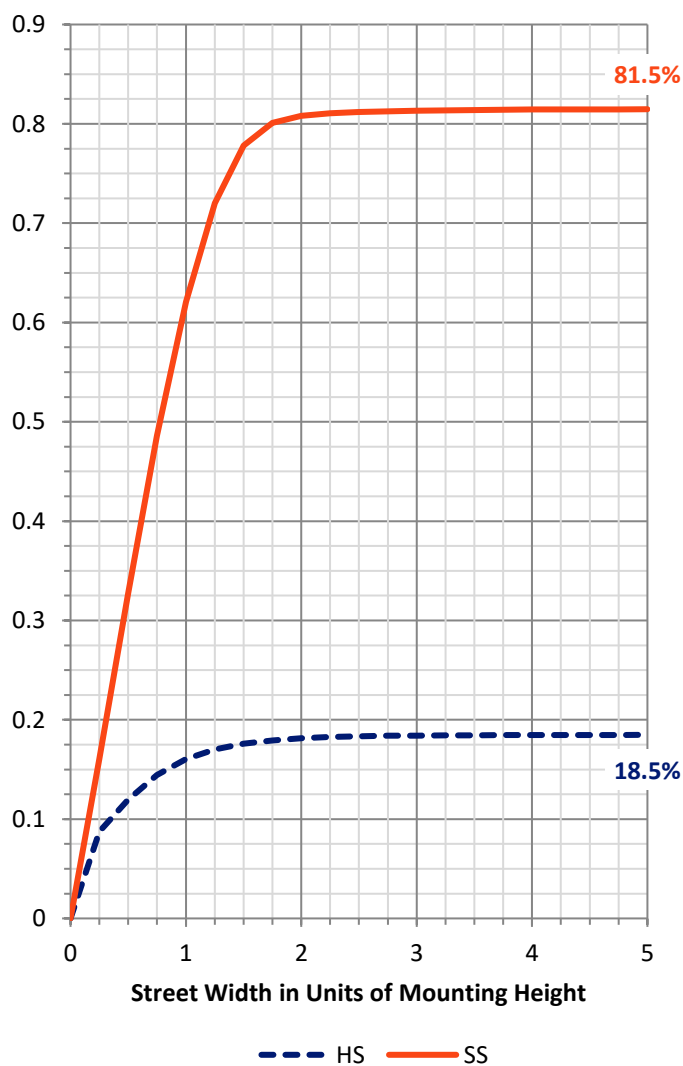
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2181.7	0.0	2181.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	9564.3	0.0	9564.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	11745.9	0.0	11745.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	2.3
10°-20°	712.6	6.1
20°-30°	1249.1	10.6
30°-40°	2059.7	17.5
40°-50°	2997.1	25.5
50°-60°	3396.0	28.9
60°-70°	971.0	8.3
70°-80°	75.4	0.6
80°-90°	15.7	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°	11745.9	100.0
0°-180°	11745.9	100.0

**Coefficient of Utilization**



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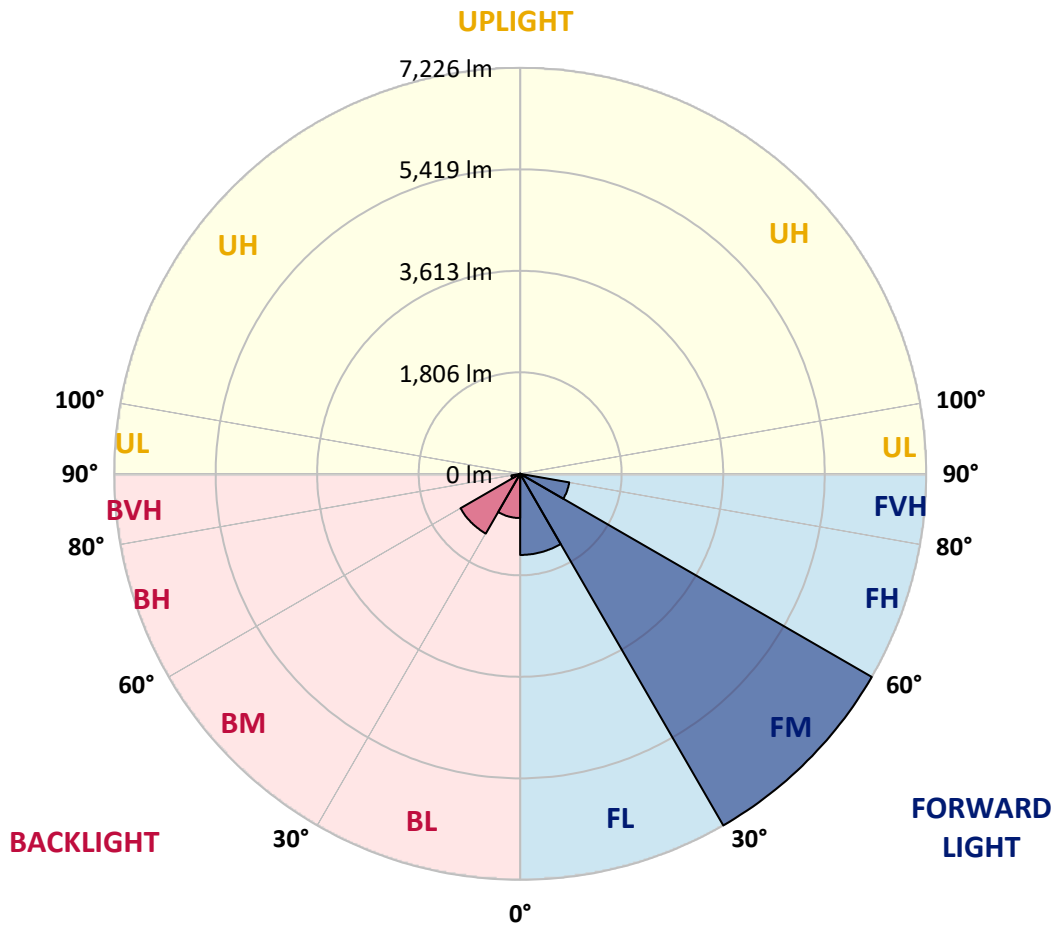
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.9	12.3			
FM (30°-60°)	7225.6	61.5			
FH (60°-80°)	887.1	7.6			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	787.2	6.7	B2/1000		
BM (30°-60°)	1227.2	10.4	B2/2500		
BH (60°-80°)	159.2	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	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°	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9
2.5°	2839.3	2866.6	2870.8	2904.4	2902.3	2959.0	2975.8	2977.9	3015.7	2996.8	3045.1
5°	2759.5	2744.8	2738.5	2797.3	2814.1	2864.5	2906.5	2931.7	3009.4	3036.7	3087.1
7.5°	2688.1	2688.1	2692.3	2744.8	2738.5	2803.6	2847.7	2925.4	3038.8	3061.9	3122.8
10°	2618.8	2593.6	2625.1	2679.7	2725.9	2755.3	2847.7	2921.2	3053.5	3120.7	3204.7
12.5°	2583.1	2595.7	2599.9	2639.8	2690.2	2778.4	2828.8	2950.6	3158.5	3198.4	3288.7
15°	2807.8	2782.6	2721.7	2686.0	2728.0	2770.0	2896.0	3019.9	3213.1	3269.8	3370.6
17.5°	3068.2	3047.2	2996.8	2900.2	2805.7	2883.4	2982.1	3095.5	3271.9	3355.9	3505.0
20°	3408.4	3374.8	3324.4	3135.4	3053.5	2969.5	3074.5	3208.9	3368.5	3444.1	3597.4
22.5°	3813.7	3813.7	3700.3	3471.4	3301.3	3221.5	3265.6	3343.3	3475.6	3578.5	3729.7
25°	4235.8	4223.2	4120.3	3883.0	3595.3	3500.8	3551.2	3605.8	3641.5	3698.2	3799.0
27.5°	4718.9	4645.4	4515.2	4252.6	3998.5	3815.8	3870.4	3822.1	3778.0	3807.4	3952.3
30°	5046.5	5092.7	4926.8	4674.8	4435.4	4231.6	4242.1	4200.1	3998.5	4040.5	4126.6
32.5°	5386.7	5416.1	5323.7	5185.1	4945.7	4708.4	4622.3	4586.6	4435.4	4454.3	4370.2
35°	5670.2	5726.9	5645.0	5584.1	5514.8	5323.7	5086.4	5201.9	4958.3	4912.1	4693.7
37.5°	5930.6	5913.8	6010.4	5947.4	5932.7	5798.3	5537.9	5561.0	5397.2	5386.7	5134.7
40°	6163.7	6167.9	6300.2	6329.6	6270.8	6031.4	5653.4	5836.1	5968.4	5981.0	5657.6
42.5°	6356.9	6413.6	6527.0	6764.3	6676.1	6277.1	5773.1	5972.6	6464.0	6541.7	6153.2
45°	6524.9	6640.4	6781.1	6993.2	6942.8	6625.7	6071.3	6254.0	6993.2	7196.9	6619.4
47.5°	6535.4	6686.6	6839.9	7154.9	7217.9	6812.6	6380.0	6699.2	7413.3	7633.8	6959.6
50°	6493.4	6573.2	6879.8	7222.1	7365.0	7117.1	6812.6	7073.0	7820.7	7959.3	7131.8
52.5°	5995.7	6056.6	6671.9	7285.1	7629.6	7461.6	7386.0	7593.9	8236.5	8339.4	7293.5
55°	4998.2	4987.7	5834.0	6968.0	7751.4	7971.9	7925.7	7999.2	8717.4	8809.8	7333.5
57.5°	3418.9	3610.0	4340.8	5802.5	7005.8	7852.2	7900.5	7778.7	8156.7	8192.4	6392.6
60°	1843.9	1923.7	2511.7	3872.5	5334.2	6398.9	6524.9	6304.4	6275.0	6174.2	4563.5
62.5°	732.9	772.8	1106.7	1917.4	2906.5	3889.3	4160.2	4069.9	3876.7	3612.1	2362.6
65°	348.6	373.8	550.2	896.7	1289.4	1621.3	1892.2	1976.2	1457.4	1312.5	779.1
67.5°	237.3	256.2	401.1	512.4	459.9	480.9	625.8	581.7	342.3	291.9	216.3
70°	180.6	193.2	321.3	348.6	205.8	144.9	161.7	151.2	140.7	142.8	140.7
72.5°	128.1	138.6	235.2	205.8	90.3	67.2	86.1	102.9	102.9	102.9	100.8
75°	77.7	88.2	136.5	79.8	35.7	35.7	54.6	69.3	73.5	75.6	71.4
77.5°	39.9	50.4	46.2	23.1	23.1	27.3	39.9	48.3	52.5	52.5	50.4
80°	8.4	8.4	8.4	12.6	23.1	29.4	39.9	44.1	50.4	50.4	46.2
82.5°	0.0	2.1	6.3	12.6	21.0	27.3	37.8	44.1	50.4	52.5	48.3
85°	0.0	2.1	4.2	8.4	14.7	16.8	14.7	12.6	12.6	12.6	12.6
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9
2.5°	3049.3	3055.6	3045.1	3043.0	3034.6	3059.8	2998.9	2984.2	3022.0	2986.3	2994.7
5°	3089.2	3103.9	3085.0	3053.5	3007.3	2935.9	2875.0	2795.2	2757.4	2730.1	2725.9
7.5°	3118.6	3129.1	3110.2	3009.4	2870.8	2690.2	2555.8	2457.1	2379.4	2356.3	2318.5
10°	3238.3	3240.4	3145.9	2923.3	2652.4	2415.1	2209.3	2058.1	1980.4	1932.1	1911.1
12.5°	3318.1	3313.9	3122.8	2753.2	2392.0	2077.0	1841.8	1659.1	1587.7	1564.6	1549.9
15°	3418.9	3395.8	3068.2	2578.9	2056.0	1715.8	1503.7	1377.6	1371.3	1356.6	1371.3
17.5°	3498.7	3433.6	2988.4	2261.8	1734.7	1413.3	1274.7	1283.1	1299.9	1314.6	1316.7
20°	3628.9	3494.5	2805.7	1984.6	1436.4	1211.7	1209.6	1247.4	1289.4	1306.2	1323.0
22.5°	3727.6	3519.7	2610.4	1688.5	1192.8	1129.8	1165.5	1222.2	1253.7	1270.5	1295.7
25°	3763.3	3450.4	2350.0	1392.3	1075.2	1092.0	1146.6	1184.4	1224.3	1243.2	1232.7
27.5°	3799.0	3414.7	2039.2	1146.6	1012.2	1066.8	1113.0	1150.8	1163.4	1188.6	1205.4
30°	3885.1	3290.8	1759.9	991.2	980.7	1050.0	1083.6	1096.2	1129.8	1144.5	1144.5
32.5°	3954.4	3242.5	1463.8	917.7	976.5	1058.4	1062.6	1062.6	1066.8	1056.3	1052.1
35°	4097.2	3076.6	1199.1	873.6	974.4	1060.5	1071.0	1035.3	938.7	900.9	890.4
37.5°	4273.6	2969.5	1003.8	863.1	989.1	1085.7	1102.5	968.1	842.1	781.2	770.7
40°	4487.9	2893.9	875.7	858.9	1022.7	1144.5	1094.1	915.6	751.8	663.6	659.4
42.5°	4737.8	2824.6	789.6	856.8	1064.7	1205.4	1085.7	871.5	659.4	600.6	609.0
45°	4937.3	2786.8	730.8	842.1	1079.4	1241.1	1092.0	793.8	621.6	583.8	588.0
47.5°	5092.7	2707.0	682.5	816.9	1077.3	1253.7	1035.3	762.3	602.7	613.2	623.7
50°	5096.9	2599.9	621.6	762.3	1045.8	1230.6	970.2	732.9	598.5	642.6	663.6
52.5°	5040.2	2448.7	556.5	684.6	972.3	1150.8	911.4	720.3	579.6	575.4	600.6
55°	4838.6	2165.2	447.3	554.4	821.1	949.2	858.9	697.2	522.9	474.6	478.8
57.5°	3910.3	1552.0	329.7	396.9	581.7	695.1	774.9	686.7	470.4	403.2	405.3
60°	2421.4	879.9	241.5	270.9	359.1	422.1	627.9	638.4	420.0	340.2	336.0
62.5°	1243.2	434.7	186.9	191.1	220.5	247.8	430.5	535.5	380.1	323.4	323.4
65°	415.8	214.2	163.8	147.0	147.0	153.3	260.4	371.7	321.3	270.9	270.9
67.5°	178.5	159.6	142.8	128.1	117.6	111.3	147.0	216.3	239.4	205.8	197.4
70°	138.6	134.4	123.9	107.1	92.4	84.0	86.1	111.3	136.5	132.3	128.1
72.5°	102.9	102.9	98.7	84.0	71.4	60.9	56.7	58.8	65.1	67.2	69.3
75°	71.4	73.5	73.5	65.1	52.5	44.1	37.8	31.5	25.2	21.0	18.9
77.5°	48.3	50.4	54.6	48.3	39.9	29.4	23.1	16.8	10.5	4.2	4.2
80°	42.0	48.3	52.5	48.3	42.0	31.5	23.1	12.6	6.3	0.0	0.0
82.5°	44.1	48.3	54.6	46.2	39.9	29.4	23.1	14.7	6.3	2.1	0.0
85°	10.5	10.5	12.6	14.7	18.9	21.0	16.8	10.5	6.3	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)