

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: P382929

Luminaire Tested: **GLEON-SA2D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15120.9 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

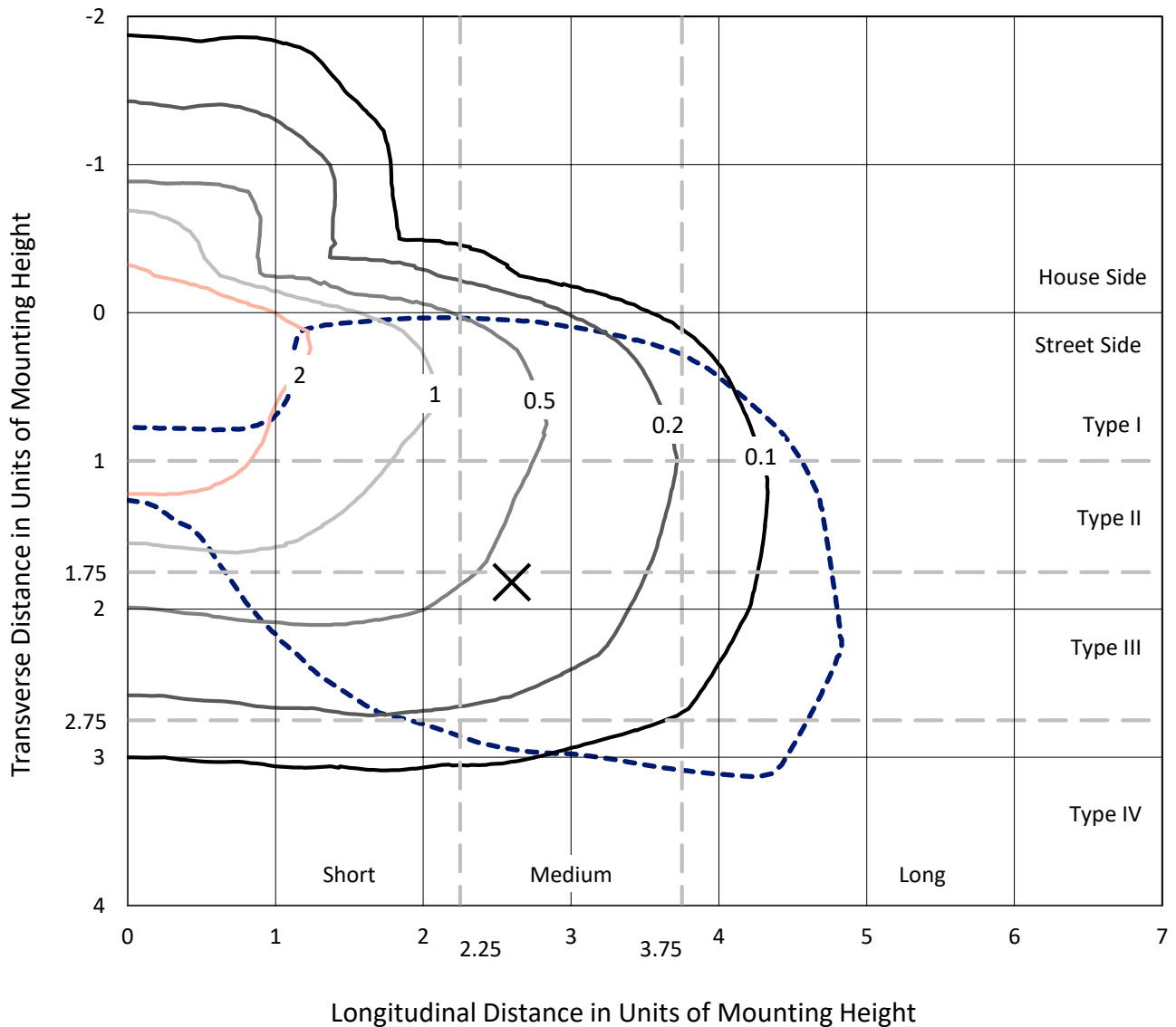
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

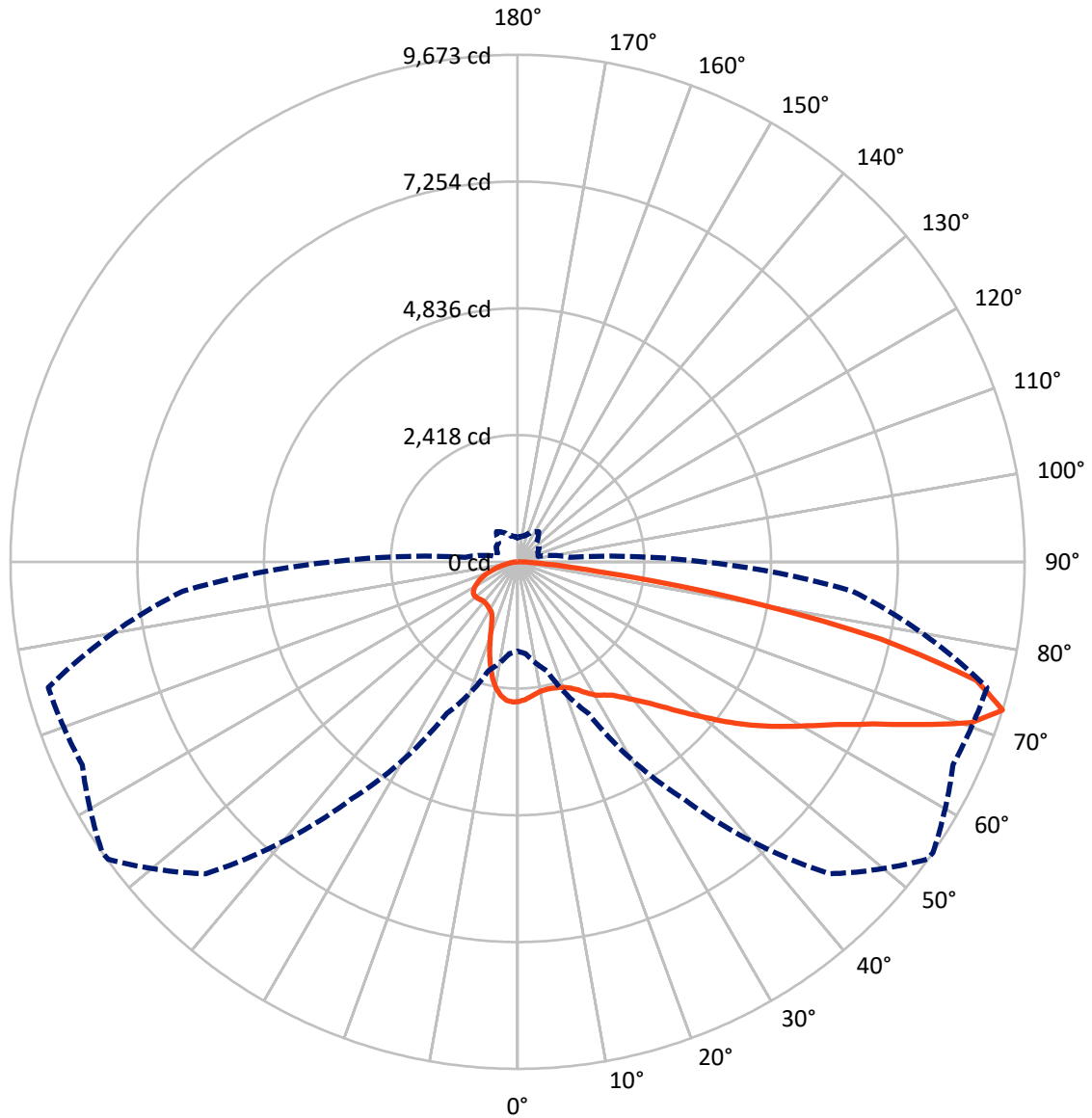
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2810.5	0.0	2810.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12310.4	0.0	12310.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	15120.9	0.0	15120.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.6
10°-20°	642.5	4.2
20°-30°	1059.3	7.0
30°-40°	1567.0	10.4
40°-50°	2187.3	14.5
50°-60°	2847.9	18.8
60°-70°	3500.0	23.1
70°-80°	2743.5	18.1
80°-90°	332.0	2.2
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°	15120.9	100.0
0°-180°	15120.9	100.0

Coefficient of Utilization

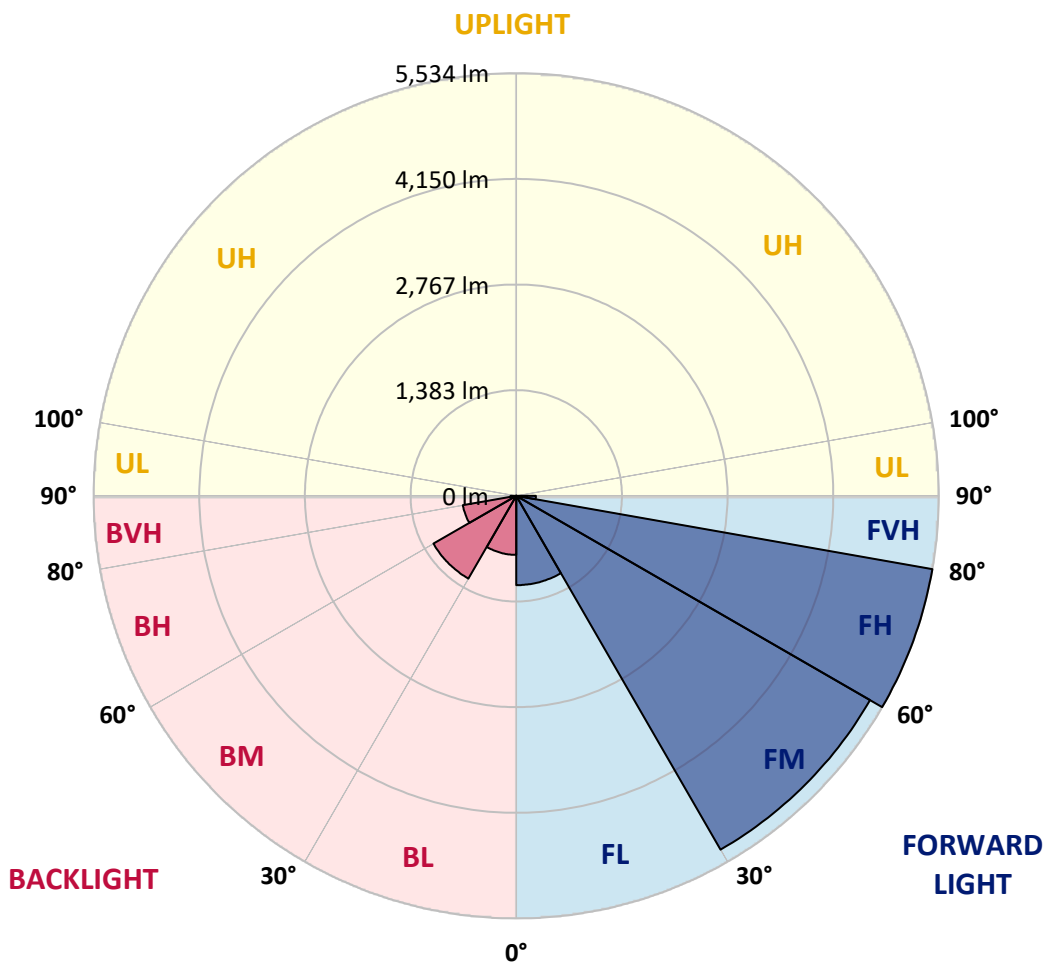


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.9	7.7			
FM (30°-60°)	5350.1	35.4			
FH (60°-80°)	5533.7	36.6			G3/7500
FVH (80°-90°)	256.7	1.7			G3/500
BL (0°-30°)	773.3	5.1	B2/1000		
BM (30°-60°)	1252.1	8.3	B2/2500		
BH (60°-80°)	709.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	75.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0
2.5°	2580.2	2574.1	2581.7	2592.4	2604.1	2620.0	2629.2	2633.3	2649.1	2655.3	2668.5
5°	2460.7	2457.6	2470.4	2488.7	2514.8	2551.6	2581.2	2586.8	2628.7	2658.4	2685.4
7.5°	2373.9	2373.9	2388.7	2410.7	2439.7	2489.3	2531.1	2538.8	2609.8	2673.6	2723.7
10°	2304.9	2307.4	2324.8	2350.9	2385.0	2437.7	2493.4	2502.0	2604.7	2709.4	2789.1
12.5°	2258.9	2265.1	2280.9	2304.4	2346.8	2410.7	2481.1	2492.8	2615.4	2760.5	2867.7
15°	2288.1	2298.2	2299.8	2309.5	2333.0	2402.5	2488.3	2500.5	2638.4	2812.5	2957.1
17.5°	2415.7	2419.3	2403.5	2383.0	2371.8	2416.2	2509.7	2522.4	2666.0	2864.1	3042.9
20°	2609.8	2607.8	2573.5	2518.3	2461.1	2468.3	2544.9	2558.2	2703.3	2909.6	3128.7
22.5°	2854.9	2847.8	2795.2	2693.6	2596.0	2555.1	2606.7	2617.9	2759.4	2974.4	3220.6
25°	3152.2	3136.3	3066.9	2930.6	2787.0	2681.8	2699.7	2710.4	2841.1	3047.0	3304.9
27.5°	3465.7	3449.9	3361.6	3196.6	3005.6	2841.7	2827.9	2837.0	2934.1	3100.6	3367.2
30°	3793.6	3776.8	3696.1	3511.2	3237.5	3007.1	2947.4	2951.0	2999.5	3129.7	3418.3
32.5°	4123.0	4107.2	4016.8	3802.3	3489.3	3184.9	3033.7	3029.1	3038.8	3159.8	3476.0
35°	4457.1	4463.2	4357.5	4120.0	3768.1	3382.5	3135.9	3126.2	3104.7	3221.7	3557.7
37.5°	4814.6	4810.5	4673.7	4425.4	4059.8	3597.0	3282.4	3280.9	3206.9	3338.6	3685.9
40°	5053.6	5056.2	4972.9	4737.9	4354.4	3834.5	3470.4	3466.8	3369.8	3513.8	3853.9
42.5°	5147.1	5163.9	5185.4	5036.2	4662.9	4109.8	3694.6	3689.5	3597.0	3765.0	4051.6
45°	5153.7	5187.4	5320.2	5301.3	4975.5	4424.9	3981.1	3966.8	3900.4	4099.1	4287.5
47.5°	5096.5	5131.2	5351.8	5459.1	5254.9	4757.4	4316.1	4304.9	4247.7	4516.8	4542.9
50°	4971.4	5004.6	5286.5	5536.3	5484.7	5077.1	4702.3	4672.6	4642.0	4999.4	4835.0
52.5°	4736.9	4800.8	5199.2	5554.6	5622.1	5361.1	5108.2	5088.9	5105.7	5508.7	5127.7
55°	4181.8	4253.3	4973.9	5539.3	5723.7	5599.5	5514.3	5513.3	5600.6	6042.9	5441.7
57.5°	3870.8	3921.3	4515.3	5513.3	5844.3	5836.5	5916.3	5925.9	6096.0	6624.6	5770.7
60°	3695.1	3748.2	4282.9	5416.8	6031.1	6143.0	6326.3	6345.7	6599.5	7268.6	6166.5
62.5°	3535.2	3593.4	4138.9	5220.1	6251.2	6581.2	6817.6	6835.0	7132.8	7930.5	6549.0
65°	3262.0	3327.9	3928.0	5090.9	6451.4	7152.7	7442.2	7454.0	7745.2	8624.1	6841.7
67.5°	2875.9	2936.1	3530.1	4805.4	6599.5	7846.8	8272.7	8279.3	8352.3	9113.9	6991.3
70°	2424.9	2447.9	2963.3	4216.0	6424.4	8495.9	9182.8	9184.3	8906.0	9427.4	6966.8
72.5°	1703.8	1757.9	2151.1	3191.5	5520.9	8416.7	9655.2	9672.6	9163.4	9269.1	6410.1
75°	1044.9	1102.1	1349.3	1934.1	3502.5	6619.5	8920.8	9041.3	8680.8	8264.5	5236.4
77.5°	698.7	720.1	880.5	1127.6	1586.8	3808.4	6858.5	7085.3	7211.4	6027.0	3348.8
80°	389.7	430.6	583.8	700.7	705.8	1513.3	4112.3	4165.4	4012.3	2399.9	1033.2
82.5°	206.3	228.8	389.7	411.7	385.1	506.7	1532.7	1534.3	1281.9	643.5	306.9
85°	159.9	178.8	267.1	251.2	196.6	224.7	505.6	533.2	436.2	263.5	100.1
87.5°	79.6	99.1	181.3	159.4	77.1	64.4	180.8	193.0	172.1	103.1	36.2
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°	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0	2667.0
2.5°	2673.6	2678.2	2683.9	2677.7	2675.7	2667.5	2653.7	2650.6	2643.5	2644.0	2648.1
5°	2697.1	2704.7	2701.8	2678.2	2650.2	2610.8	2570.0	2535.2	2512.3	2510.7	2509.2
7.5°	2742.1	2747.2	2723.2	2656.3	2577.6	2486.7	2400.9	2325.8	2280.3	2269.2	2266.5
10°	2812.5	2811.5	2745.6	2610.8	2454.1	2291.6	2153.7	2049.5	1988.8	1970.9	1966.3
12.5°	2891.2	2879.4	2753.3	2528.1	2279.4	2054.2	1879.5	1763.5	1700.2	1679.8	1674.6
15°	2972.4	2943.3	2734.4	2404.5	2064.9	1798.3	1614.9	1507.6	1473.4	1462.2	1460.2
17.5°	3048.0	2991.9	2680.2	2236.9	1820.2	1543.4	1400.4	1357.5	1365.6	1380.5	1381.0
20°	3122.1	3024.5	2593.4	2025.6	1562.3	1333.5	1285.0	1316.6	1355.5	1385.6	1389.7
22.5°	3195.1	3047.5	2481.6	1781.4	1331.5	1215.5	1249.8	1307.4	1351.9	1384.6	1390.1
25°	3256.4	3053.1	2327.4	1520.9	1171.0	1171.0	1232.9	1287.5	1331.5	1363.6	1369.3
27.5°	3278.9	3015.3	2109.8	1279.9	1090.4	1150.6	1209.4	1254.9	1292.1	1326.3	1332.5
30°	3287.5	2945.4	1858.5	1086.3	1057.2	1128.7	1177.8	1216.5	1251.8	1284.0	1289.5
32.5°	3289.0	2861.1	1591.9	976.5	1034.2	1105.7	1138.4	1172.6	1210.5	1223.2	1225.3
35°	3298.8	2761.5	1311.1	920.4	1012.8	1084.2	1110.3	1134.8	1073.5	1078.2	1082.2
37.5°	3326.8	2662.9	1076.1	888.7	999.0	1073.0	1104.2	1015.3	967.3	956.0	954.6
40°	3379.5	2557.7	901.9	863.1	993.9	1078.6	1064.9	947.9	865.1	803.4	794.1
42.5°	3452.5	2444.3	790.6	846.3	997.4	1105.7	1010.2	883.0	745.6	705.8	700.7
45°	3534.8	2325.3	730.3	834.5	1009.7	1126.6	999.0	796.8	690.0	659.8	657.3
47.5°	3614.4	2179.7	699.2	829.4	1026.6	1109.8	951.5	770.2	663.4	647.6	649.1
50°	3705.8	2048.5	680.3	823.8	1041.4	1099.0	897.8	756.4	653.2	672.6	693.1
52.5°	3782.9	1912.7	663.4	812.6	1047.0	1080.2	884.0	758.9	653.2	690.5	709.9
55°	3874.3	1810.0	644.0	789.1	1036.3	1026.6	874.4	774.3	660.8	637.4	639.4
57.5°	3992.3	1776.3	622.6	752.3	1000.5	948.4	869.8	789.1	656.3	641.5	646.6
60°	4155.7	1812.0	613.9	704.2	944.9	887.1	870.3	781.4	624.1	598.6	599.1
62.5°	4311.5	1851.9	613.4	674.2	876.4	832.5	858.5	756.4	607.7	592.9	598.6
65°	4362.6	1811.6	588.8	640.4	799.3	767.1	837.1	729.9	595.5	573.0	572.0
67.5°	4294.2	1686.4	539.4	585.8	711.0	691.0	809.0	698.2	576.1	557.7	554.6
70°	4090.9	1407.0	478.1	513.7	610.3	605.2	764.5	661.4	550.1	534.2	520.9
72.5°	3543.9	1002.5	403.0	427.5	496.9	513.3	703.2	613.4	513.3	479.1	458.6
75°	2910.6	742.1	331.0	336.1	377.5	421.9	619.0	557.2	469.9	411.7	395.8
77.5°	1782.4	454.0	263.5	265.6	270.7	336.6	509.7	494.4	414.7	343.2	332.0
80°	577.1	247.7	190.5	200.2	184.9	246.7	394.3	420.9	355.9	287.0	274.8
82.5°	219.6	144.6	128.7	135.4	128.2	165.4	287.6	337.0	291.7	236.0	192.0
85°	106.2	81.7	76.1	85.3	79.2	84.8	183.9	248.3	221.1	153.7	143.0
87.5°	37.8	36.2	29.2	39.3	33.7	30.1	56.2	125.1	146.1	105.7	94.5
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)