

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: P383011

Luminaire Tested: **GLEON-SA3C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20119.6 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

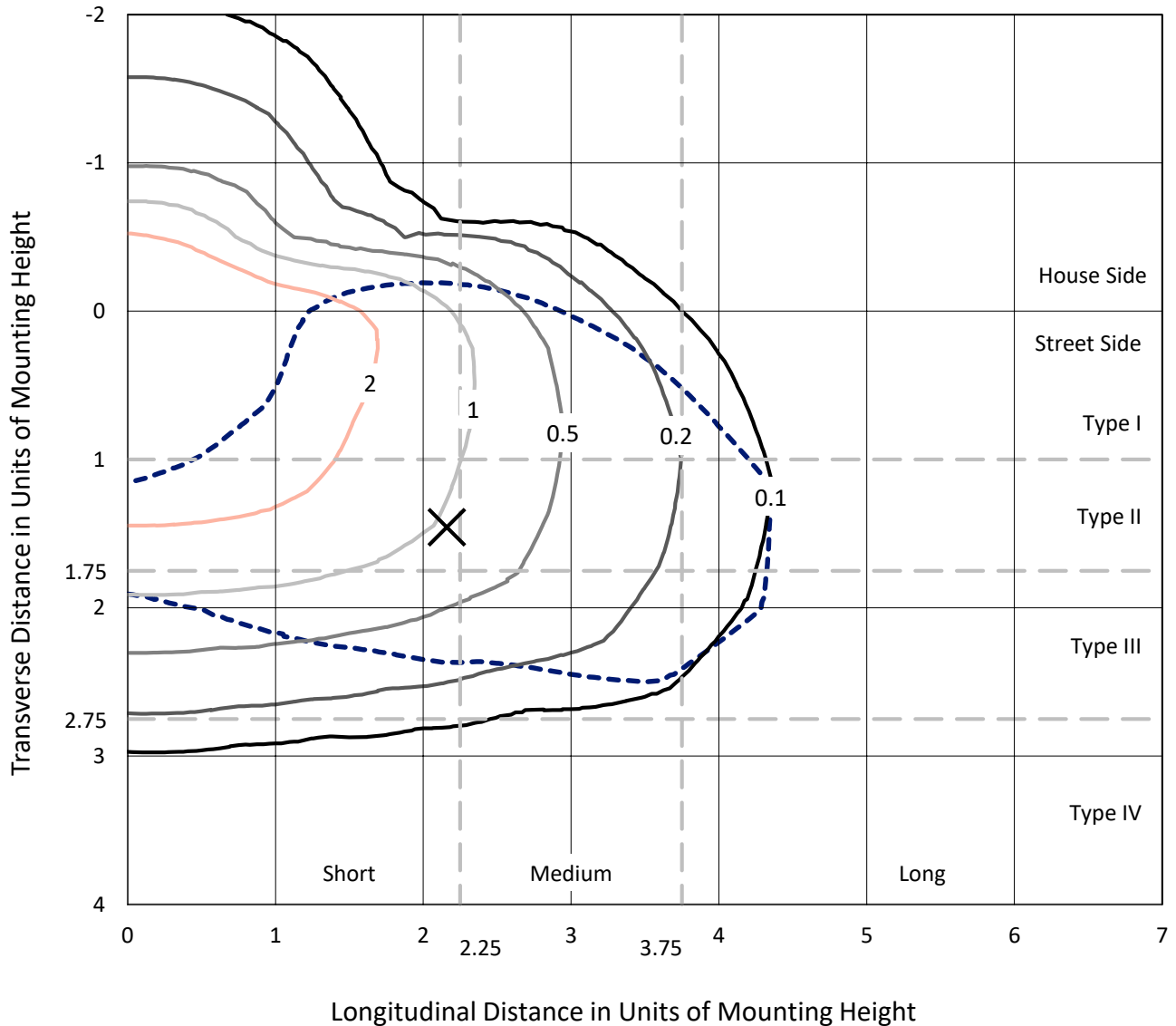
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

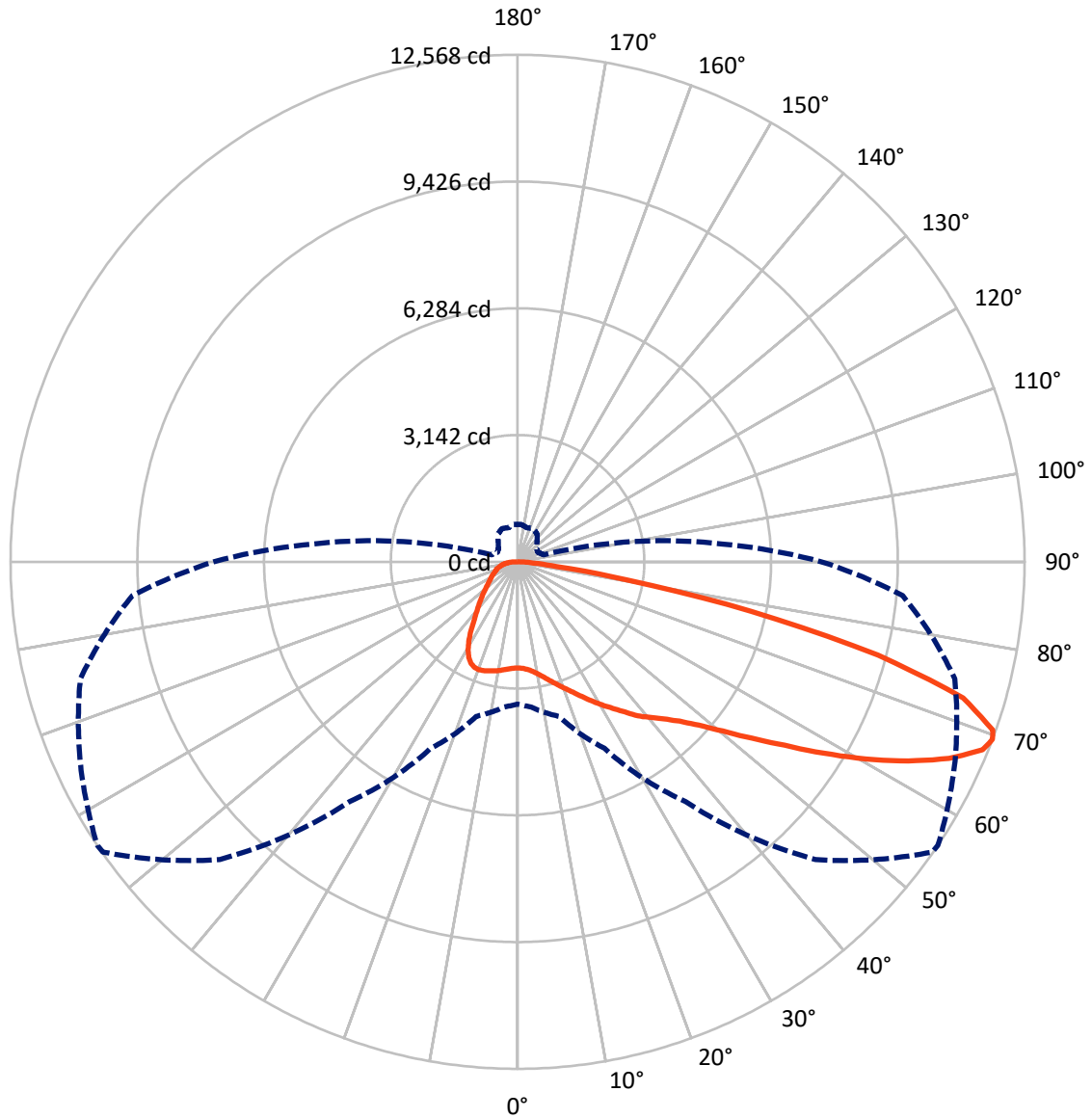
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4480.6	0.0	4480.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15639.0	0.0	15639.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	20119.6	0.0	20119.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.3
10°-20°	830.7	4.1
20°-30°	1450.1	7.2
30°-40°	2083.0	10.4
40°-50°	2882.8	14.3
50°-60°	4223.7	21.0
60°-70°	5149.5	25.6
70°-80°	2847.0	14.2
80°-90°	394.3	2.0
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°	20119.6	100.0
0°-180°	20119.6	100.0



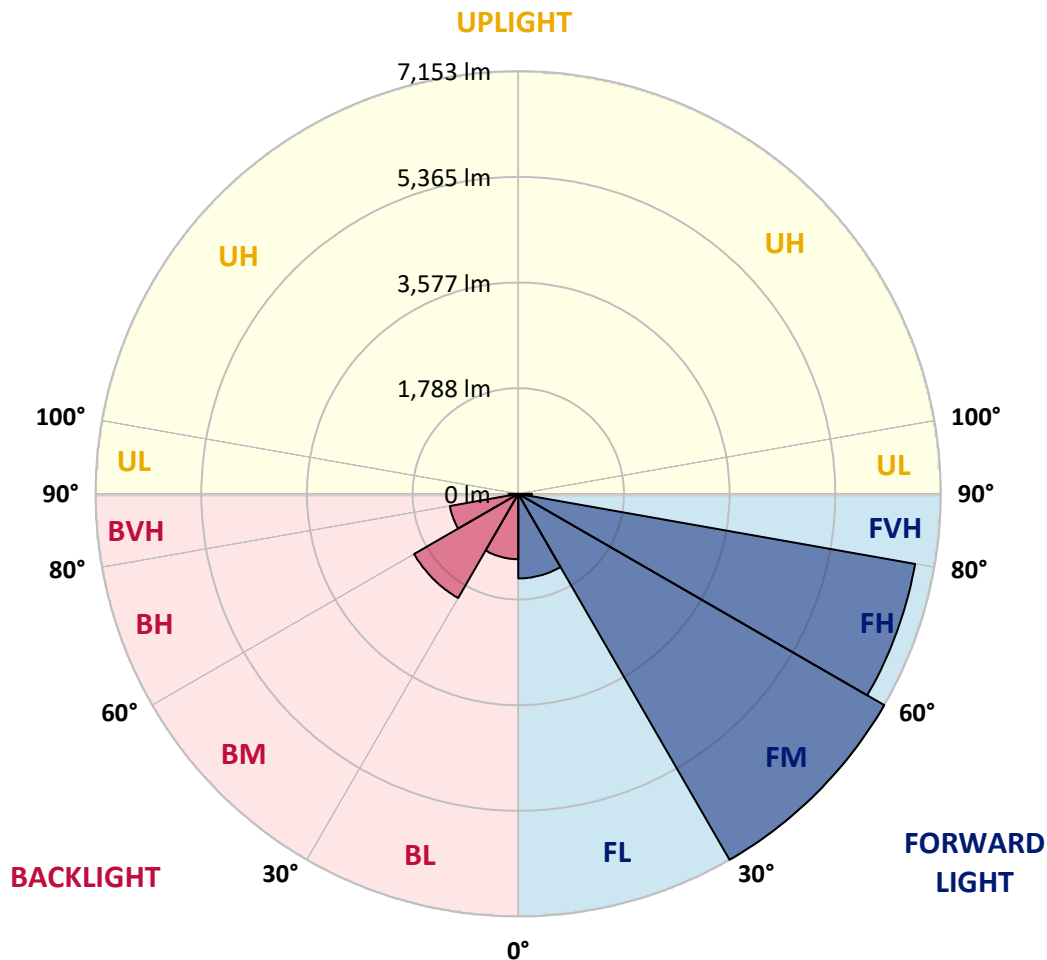
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.9	7.1			
FM (30°-60°)	7153.3	35.6			
FH (60°-80°)	6821.5	33.9			G3/7500
FVH (80°-90°)	232.3	1.2			G3/500
BL (0°-30°)	1107.3	5.5	B3/2500		
BM (30°-60°)	2036.3	10.1	B2/2500		
BH (60°-80°)	1175.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	162.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2647.0	2649.7	2647.6	2653.2	2647.0	2651.1	2647.6	2647.6	2645.6	2639.4	2632.4
5°	2688.5	2694.1	2690.6	2696.2	2688.5	2689.9	2683.7	2683.7	2677.5	2664.3	2650.4
7.5°	2753.7	2759.9	2757.2	2762.7	2752.4	2752.4	2744.0	2743.3	2730.8	2709.3	2693.4
10°	2831.3	2839.6	2836.8	2845.2	2836.8	2839.6	2831.3	2831.3	2814.7	2784.2	2764.1
12.5°	2944.3	2954.7	2947.0	2946.4	2942.9	2948.4	2941.5	2940.2	2924.9	2883.3	2855.6
15°	3095.4	3106.5	3090.6	3089.2	3069.7	3067.7	3067.7	3065.6	3055.9	3006.0	2960.3
17.5°	3269.4	3272.8	3259.0	3236.8	3211.9	3195.9	3193.8	3199.4	3199.4	3141.2	3068.3
20°	3439.8	3446.1	3435.0	3410.1	3378.2	3354.6	3338.0	3349.1	3348.4	3279.0	3175.8
22.5°	3625.6	3640.2	3623.5	3591.7	3554.2	3527.9	3498.8	3508.5	3509.1	3423.9	3281.2
25°	3866.1	3853.0	3842.5	3797.5	3744.2	3717.2	3690.0	3699.8	3697.0	3579.8	3390.0
27.5°	4078.9	4081.7	4067.8	4020.0	3958.3	3898.7	3897.3	3903.6	3893.1	3742.0	3492.6
30°	4326.4	4327.8	4308.3	4265.4	4198.1	4121.2	4103.2	4113.5	4091.4	3895.9	3600.7
32.5°	4572.4	4579.3	4557.9	4505.9	4451.8	4358.2	4322.2	4329.1	4273.7	4053.3	3712.3
35°	4788.0	4797.7	4790.8	4756.1	4697.1	4616.7	4573.8	4569.6	4501.1	4246.0	3859.9
37.5°	5007.7	5016.7	5009.0	4980.0	4956.4	4871.2	4848.2	4848.2	4729.1	4442.8	4047.8
40°	5233.6	5247.5	5238.5	5198.3	5178.2	5139.3	5084.6	5071.4	4942.5	4679.2	4354.1
42.5°	5443.7	5461.7	5497.7	5474.1	5433.3	5438.7	5328.5	5321.7	5227.4	5028.5	4738.8
45°	5741.7	5768.0	5829.0	5811.0	5802.7	5772.1	5641.2	5634.9	5598.9	5498.4	5216.3
47.5°	6066.7	6102.8	6213.0	6216.5	6305.8	6248.4	6070.2	6048.7	6057.0	6061.2	5799.2
50°	6366.2	6405.7	6586.6	6671.8	6882.6	6895.0	6610.2	6590.7	6623.3	6719.0	6478.4
52.5°	6605.3	6655.2	6881.2	7144.5	7505.7	7608.2	7274.8	7260.3	7284.5	7449.5	7246.4
55°	6780.6	6834.7	7080.8	7560.3	8137.1	8318.0	8040.0	8026.1	8041.4	8251.4	8081.5
57.5°	6821.5	6834.7	7191.6	7840.4	8670.0	9104.6	8976.4	8948.6	8873.8	9056.8	9003.4
60°	6629.5	6682.2	7100.2	7938.8	9082.4	9880.2	9955.1	9920.4	9710.4	9860.1	9817.1
62.5°	6240.0	6334.2	6758.5	7789.1	9243.9	10513.7	10915.0	10873.4	10511.6	10608.7	10402.1
65°	5603.7	5644.0	6089.6	7272.8	9038.8	10919.1	11770.9	11750.2	11294.8	11143.1	10510.2
67.5°	4465.7	4541.2	4919.7	6193.6	8199.4	10871.3	12432.9	12430.9	11806.3	11341.2	10126.9
69°	3527.9	3606.2	3966.6	5101.9	7255.5	10434.0	12543.8	12568.1	11950.5	11220.7	9579.4
70°	2812.6	2903.4	3150.9	4297.2	6417.4	9857.4	12451.6	12495.3	11922.8	11021.7	9074.1
72.5°	1196.9	1270.4	1446.5	2215.1	3911.2	7360.8	11384.9	11549.9	11280.3	10087.4	7499.4
75°	522.6	545.5	625.2	903.1	1736.2	4006.1	8918.8	9223.8	9645.2	8526.5	5586.4
77.5°	382.6	392.3	436.0	530.2	779.1	1513.0	5735.4	5912.9	6956.0	6204.7	3426.7
80°	296.0	302.8	336.8	389.5	508.7	612.0	2615.8	2768.3	3911.2	3186.9	1427.1
82.5°	235.7	240.5	264.1	286.9	351.4	370.8	868.5	963.4	1443.7	880.2	377.7
85°	219.0	224.6	232.9	209.3	225.2	217.6	375.7	393.0	436.0	345.9	158.0
87.5°	99.1	117.1	230.8	162.8	119.9	95.7	153.9	160.8	180.9	181.6	70.0
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°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2636.6	2634.5	2638.0	2629.7	2640.0	2639.4	2635.9	2637.3	2644.2	2643.5	2644.2
5°	2652.5	2651.1	2655.3	2649.0	2661.5	2665.7	2666.4	2672.6	2680.2	2682.3	2682.3
7.5°	2692.7	2692.7	2694.8	2686.5	2694.8	2694.1	2690.6	2696.8	2704.5	2705.2	2704.5
10°	2762.0	2762.7	2759.2	2737.7	2730.8	2712.1	2694.8	2695.5	2705.2	2712.9	2714.9
12.5°	2849.3	2846.6	2831.3	2791.8	2762.7	2724.6	2706.6	2705.9	2715.6	2721.8	2723.9
15°	2949.2	2941.5	2902.1	2837.6	2786.3	2748.8	2719.7	2712.9	2707.3	2700.4	2701.0
17.5°	3043.5	3026.1	2960.3	2870.8	2816.8	2766.9	2710.7	2665.7	2634.5	2616.4	2610.9
20°	3139.0	3105.1	3010.1	2902.1	2833.4	2742.6	2634.5	2543.0	2486.2	2459.8	2455.0
22.5°	3226.4	3171.6	3056.6	2934.6	2820.3	2660.9	2491.1	2357.9	2278.9	2243.5	2246.3
25°	3311.7	3235.5	3105.1	2957.5	2753.7	2516.7	2291.4	2127.8	2036.4	1996.9	1995.5
27.5°	3386.5	3299.9	3157.8	2938.8	2629.7	2311.5	2055.1	1895.6	1819.4	1785.4	1779.9
30°	3472.4	3381.0	3227.8	2867.4	2448.0	2074.5	1824.2	1712.0	1657.9	1624.0	1617.7
32.5°	3577.1	3491.2	3285.3	2737.7	2215.9	1827.0	1644.1	1565.7	1516.5	1478.4	1471.5
35°	3729.6	3636.8	3299.9	2552.0	1960.8	1631.6	1511.6	1431.2	1364.7	1315.5	1310.7
37.5°	3920.9	3819.0	3266.6	2311.5	1713.4	1504.7	1401.4	1302.3	1215.7	1146.4	1135.3
40°	4196.7	4042.9	3174.4	2034.2	1531.1	1407.0	1294.0	1181.0	1073.6	992.6	976.5
42.5°	4528.1	4305.5	3033.0	1758.4	1397.3	1307.9	1187.3	1047.2	944.7	887.2	878.8
45°	4949.5	4578.6	2836.8	1517.2	1265.6	1208.8	1072.2	943.3	879.6	837.3	830.4
47.5°	5430.5	4885.0	2631.1	1321.0	1154.0	1115.9	980.1	896.9	846.3	813.1	806.8
50°	6021.7	5230.8	2412.7	1160.2	1041.7	1004.3	936.4	871.3	831.0	805.4	799.2
52.5°	6688.4	5621.1	2255.4	1033.5	948.9	921.9	913.5	857.4	824.8	805.4	799.2
55°	7406.5	6018.3	2085.5	926.7	868.5	876.1	898.3	858.8	836.6	813.1	804.0
57.5°	8125.2	6428.5	1896.4	836.6	804.7	842.1	887.9	861.5	842.8	819.9	811.7
60°	8693.6	6688.4	1603.2	761.1	754.1	804.7	862.9	840.7	816.5	817.2	815.8
62.5°	8959.1	6674.6	1279.5	693.8	703.5	754.1	822.7	808.1	788.1	815.1	817.2
65°	8810.0	6341.9	996.0	632.8	649.5	701.5	781.1	792.2	799.2	851.2	858.0
67.5°	8184.9	5694.6	771.4	579.4	600.2	665.4	785.3	862.9	871.9	926.7	926.0
69°	7538.2	5087.4	670.2	551.8	576.0	674.3	839.3	908.0	874.0	932.2	923.9
70°	6996.2	4607.1	616.1	533.0	564.9	690.4	875.4	907.2	863.6	913.5	899.7
72.5°	5388.2	3314.4	522.6	498.4	527.4	660.6	885.8	887.2	839.3	849.0	825.4
75°	3695.6	2094.6	456.1	451.2	470.6	595.4	852.6	847.7	776.3	762.4	743.0
77.5°	2037.8	1063.9	387.4	406.2	419.3	527.4	774.9	768.0	709.0	679.9	673.0
80°	785.9	465.8	327.2	361.1	369.5	456.7	679.3	673.0	623.8	586.4	576.0
82.5°	296.6	244.0	270.3	312.6	309.8	377.1	575.2	571.8	524.0	469.2	452.6
85°	137.2	146.3	214.2	257.9	237.7	279.3	460.2	466.4	408.2	343.1	343.1
87.5°	58.2	81.8	151.7	194.8	160.1	188.5	337.5	322.3	296.0	205.1	192.6
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)