

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: P383179

Luminaire Tested: **GLEON-SA5A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383179
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-SA5A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21701.3 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

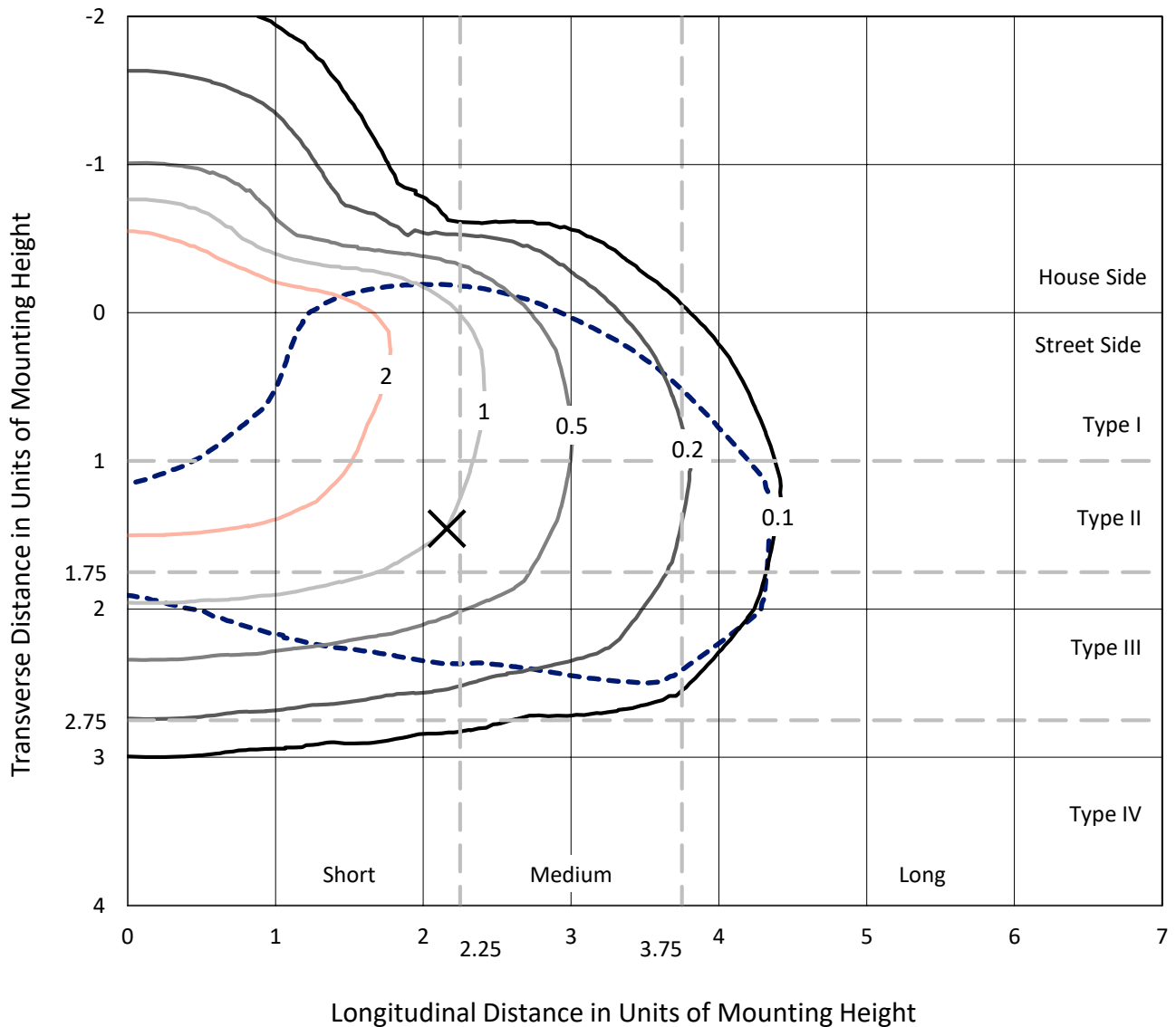
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

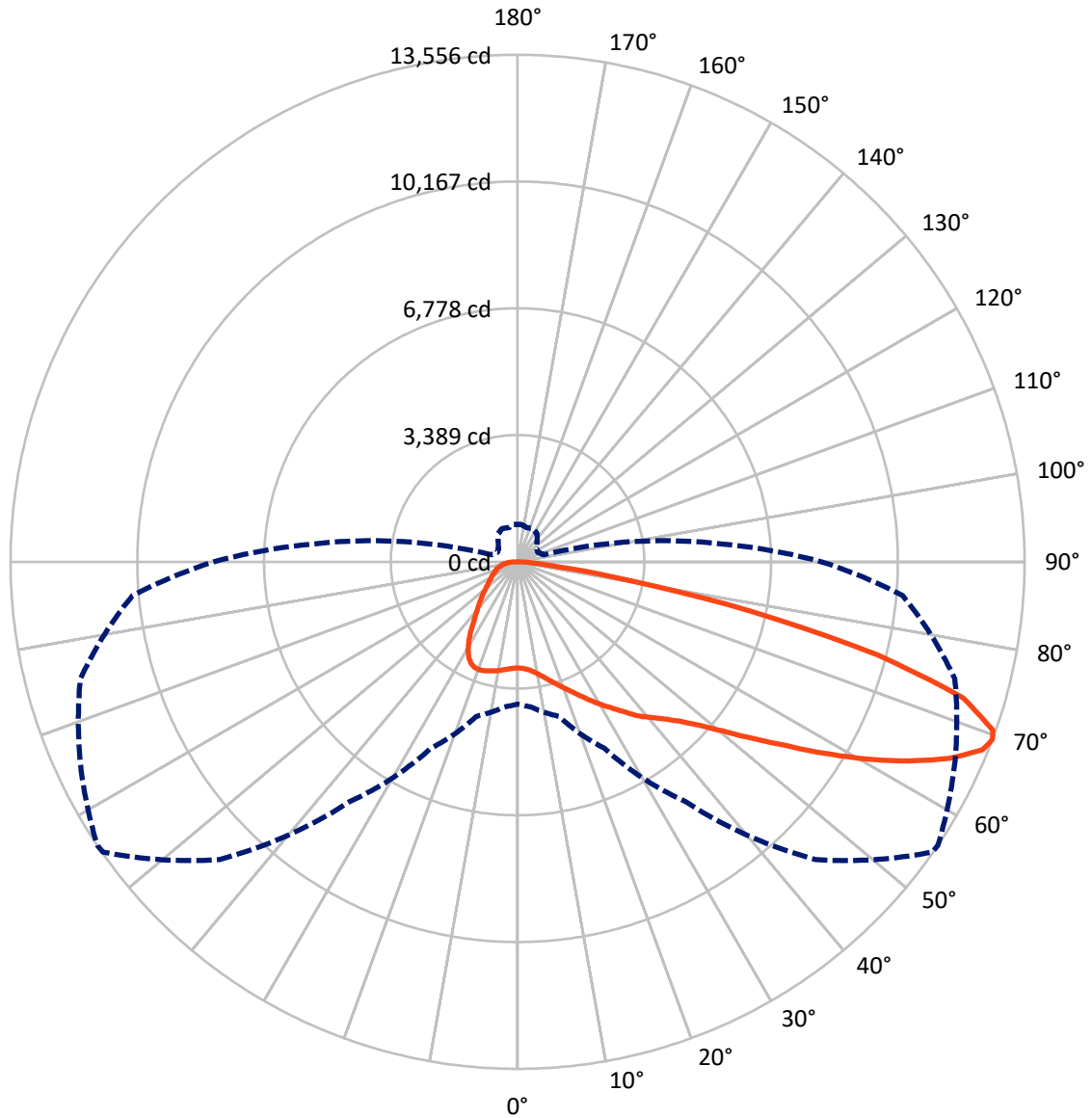
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4832.8	0.0	4832.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16868.5	0.0	16868.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	21701.3	0.0	21701.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	1.3
10°-20°	896.0	4.1
20°-30°	1564.1	7.2
30°-40°	2246.8	10.4
40°-50°	3109.5	14.3
50°-60°	4555.8	21.0
60°-70°	5554.4	25.6
70°-80°	3070.8	14.2
80°-90°	425.3	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°	21701.3	100.0
0°-180°	21701.3	100.0



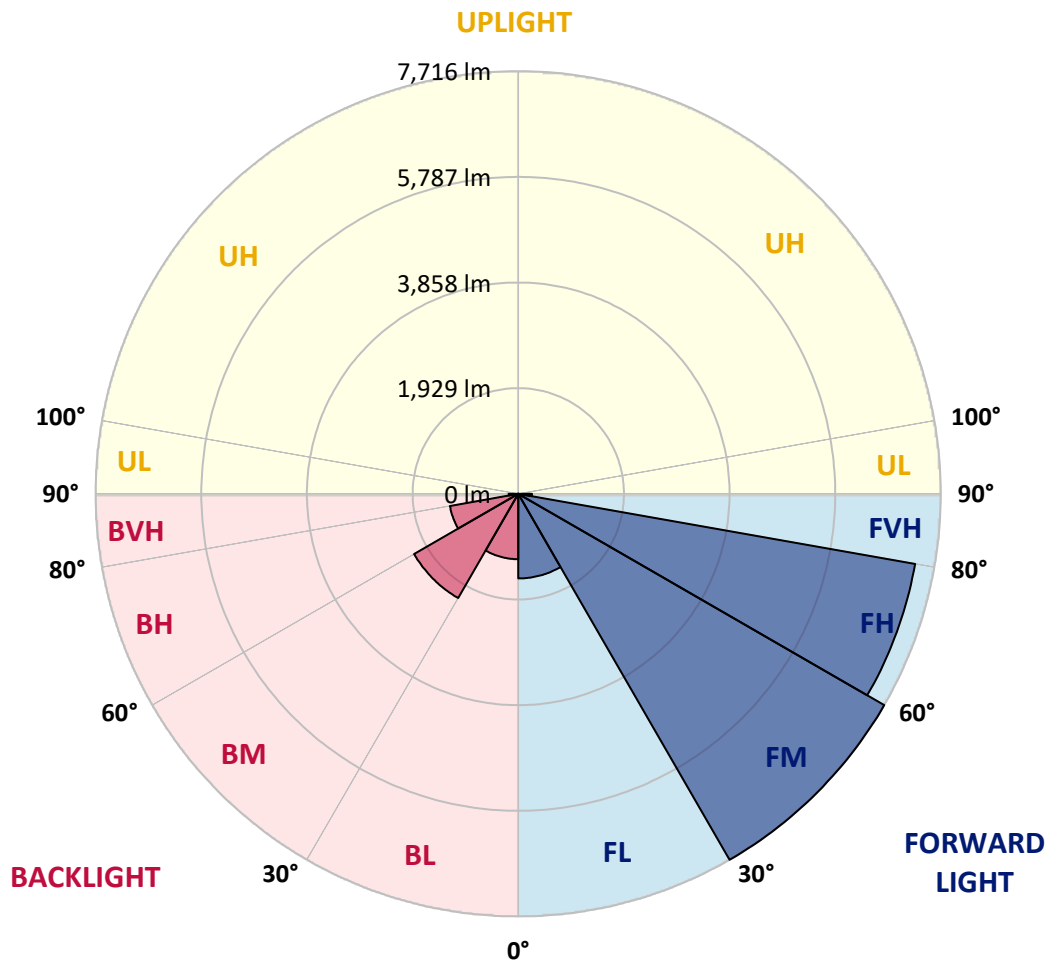
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.5	7.1			
FM (30°-60°)	7715.6	35.6			
FH (60°-80°)	7357.8	33.9			G3/7500
FVH (80°-90°)	250.5	1.2			G3/500
BL (0°-30°)	1194.3	5.5	B3/2500		
BM (30°-60°)	2196.4	10.1	B2/2500		
BH (60°-80°)	1267.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	174.8	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°	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2855.1	2858.1	2855.8	2861.8	2855.1	2859.6	2855.8	2855.8	2853.6	2846.8	2839.4
5°	2899.9	2905.9	2902.1	2908.1	2899.9	2901.4	2894.7	2894.7	2888.0	2873.7	2858.8
7.5°	2970.2	2976.9	2974.0	2979.9	2968.7	2968.7	2959.7	2959.0	2945.6	2922.4	2905.1
10°	3053.9	3062.9	3059.9	3068.9	3059.9	3062.9	3053.9	3053.9	3036.0	3003.1	2981.4
12.5°	3175.7	3187.0	3178.8	3178.1	3174.2	3180.3	3172.8	3171.3	3154.9	3110.0	3080.1
15°	3338.8	3350.7	3333.5	3332.1	3311.1	3308.9	3308.9	3306.6	3296.2	3242.3	3193.0
17.5°	3526.4	3530.1	3515.2	3491.3	3464.3	3447.2	3445.0	3450.9	3450.9	3388.1	3309.6
20°	3710.4	3717.1	3705.0	3678.1	3643.7	3618.3	3600.4	3612.4	3611.6	3536.9	3425.5
22.5°	3910.6	3926.4	3908.4	3874.0	3833.7	3805.3	3773.9	3784.3	3785.1	3693.1	3539.1
25°	4170.1	4155.9	4144.6	4096.1	4038.5	4009.4	3980.2	3990.7	3987.7	3861.4	3656.5
27.5°	4399.6	4402.6	4387.6	4336.1	4269.5	4205.2	4203.7	4210.4	4199.2	4036.3	3767.1
30°	4666.5	4668.0	4647.0	4600.7	4528.2	4445.2	4425.8	4437.0	4413.0	4202.2	3883.7
32.5°	4931.9	4939.3	4916.1	4860.1	4801.8	4700.9	4662.0	4669.5	4609.7	4371.9	4004.2
35°	5164.4	5174.8	5167.4	5130.0	5066.4	4979.8	4933.4	4928.9	4854.9	4579.8	4163.4
37.5°	5401.4	5411.1	5402.9	5371.5	5346.1	5254.1	5229.4	5229.4	5100.9	4792.1	4366.0
40°	5645.1	5660.1	5650.3	5607.0	5585.3	5543.5	5484.4	5470.1	5331.1	5047.0	4696.4
42.5°	5871.6	5891.0	5930.0	5904.5	5860.4	5866.4	5747.6	5740.0	5638.4	5423.8	5111.3
45°	6193.1	6221.5	6287.3	6267.8	6258.9	6226.0	6084.7	6078.0	6039.0	5930.7	5626.4
47.5°	6543.7	6582.6	6701.5	6705.2	6801.6	6739.6	6547.5	6524.3	6533.2	6537.7	6255.2
50°	6866.6	6909.3	7104.4	7196.4	7423.6	7437.1	7129.8	7108.9	7144.0	7247.2	6987.7
52.5°	7124.6	7178.4	7422.1	7706.2	8095.7	8206.4	7846.8	7831.1	7857.2	8035.2	7816.2
55°	7313.8	7372.0	7637.4	8154.8	8776.8	8971.9	8672.1	8657.2	8673.6	8900.1	8717.0
57.5°	7357.8	7372.0	7757.1	8456.8	9351.6	9820.4	9682.1	9652.2	9571.5	9768.9	9711.3
60°	7150.7	7207.6	7658.3	8563.0	9796.5	10657.0	10737.7	10700.3	10473.8	10635.3	10588.9
62.5°	6730.6	6832.2	7289.8	8401.4	9970.6	11340.3	11773.1	11728.3	11338.1	11442.7	11219.9
65°	6044.3	6087.7	6568.3	7844.5	9749.4	11777.6	12696.4	12674.0	12182.8	12019.1	11336.6
67.5°	4816.8	4898.3	5306.5	6680.5	8844.0	11726.0	13410.4	13408.1	12734.5	12232.9	10923.1
69°	3805.3	3889.8	4278.5	5503.0	7825.8	11254.3	13530.0	13556.2	12890.0	12102.9	10332.5
70°	3033.8	3131.7	3398.6	4635.1	6922.0	10632.3	13430.6	13477.6	12860.1	11888.2	9787.5
72.5°	1291.1	1370.3	1560.2	2389.3	4218.7	7939.5	12280.0	12458.0	12167.1	10880.5	8089.0
75°	563.7	588.4	674.3	974.1	1872.7	4321.1	9620.1	9949.0	10403.5	9196.9	6025.6
77.5°	412.7	423.1	470.2	571.9	840.3	1632.0	6186.3	6377.7	7502.9	6692.4	3696.1
80°	319.2	326.7	363.3	420.1	548.8	660.1	2821.4	2985.9	4218.7	3437.4	1539.3
82.5°	254.2	259.4	284.9	309.5	379.0	400.0	936.8	1039.1	1557.3	949.4	407.5
85°	236.2	242.2	251.2	225.8	242.9	234.7	405.2	423.9	470.2	373.1	170.5
87.5°	106.9	126.3	248.9	175.7	129.3	103.1	166.0	173.5	195.2	195.9	75.5
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°	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2843.8	2841.6	2845.3	2836.4	2847.6	2846.8	2843.1	2844.6	2852.1	2851.3	2852.1
5°	2861.1	2859.6	2864.0	2857.3	2870.8	2875.2	2876.0	2882.8	2891.0	2893.2	2893.2
7.5°	2904.4	2904.4	2906.6	2897.7	2906.6	2905.9	2902.1	2908.9	2917.1	2917.9	2917.1
10°	2979.2	2979.9	2976.2	2953.0	2945.6	2925.3	2906.6	2907.4	2917.9	2926.1	2928.3
12.5°	3073.4	3070.4	3053.9	3011.3	2979.9	2938.8	2919.4	2918.6	2929.1	2935.8	2938.0
15°	3181.0	3172.8	3130.2	3060.7	3005.4	2964.9	2933.5	2926.1	2920.1	2912.7	2913.4
17.5°	3282.7	3264.0	3193.0	3096.6	3038.2	2984.4	2923.8	2875.2	2841.6	2822.2	2816.2
20°	3385.9	3349.2	3246.8	3130.2	3056.1	2958.2	2841.6	2742.9	2681.6	2653.2	2648.0
22.5°	3480.1	3421.0	3296.9	3165.3	3042.0	2870.0	2686.9	2543.3	2458.1	2420.0	2423.0
25°	3572.0	3489.8	3349.2	3190.0	2970.2	2714.5	2471.6	2295.1	2196.4	2153.8	2152.3
27.5°	3652.8	3559.3	3406.0	3169.8	2836.4	2493.2	2216.6	2044.7	1962.4	1925.8	1919.8
30°	3745.5	3646.7	3481.6	3092.8	2640.5	2237.6	1967.7	1846.5	1788.3	1751.6	1744.9
32.5°	3858.4	3765.6	3543.6	2953.0	2390.1	1970.7	1773.3	1688.8	1635.7	1594.6	1587.2
35°	4022.8	3922.7	3559.3	2752.6	2115.0	1759.9	1630.5	1543.8	1472.0	1418.9	1413.7
37.5°	4229.1	4119.2	3523.4	2493.2	1848.1	1623.0	1511.6	1404.8	1311.2	1236.5	1224.5
40°	4526.7	4360.8	3424.0	2194.2	1651.4	1517.6	1395.7	1273.9	1158.0	1070.5	1053.4
42.5°	4884.0	4644.0	3271.5	1896.6	1507.2	1410.7	1280.6	1129.6	1018.9	956.9	947.9
45°	5338.6	4938.6	3059.9	1636.4	1365.1	1303.8	1156.5	1017.4	948.7	903.1	895.6
47.5°	5857.4	5269.0	2837.9	1424.9	1244.7	1203.7	1057.1	967.4	912.8	877.0	870.2
50°	6495.1	5642.1	2602.4	1251.4	1123.6	1083.3	1010.0	939.7	896.3	868.7	862.0
52.5°	7214.3	6063.0	2432.6	1114.7	1023.5	994.3	985.3	924.7	889.6	868.7	862.0
55°	7988.8	6491.4	2249.5	999.6	936.8	945.0	968.9	926.2	902.4	877.0	867.2
57.5°	8764.1	6934.0	2045.4	902.4	867.9	908.4	957.6	929.2	909.1	884.4	875.5
60°	9377.1	7214.3	1729.2	820.9	813.4	867.9	930.7	906.9	880.7	881.4	879.9
62.5°	9663.4	7199.4	1380.1	748.3	758.8	813.4	887.4	871.6	850.0	879.2	881.4
65°	9502.7	6840.4	1074.3	682.5	700.5	756.6	842.6	854.5	862.0	918.0	925.5
67.5°	8828.4	6142.3	832.1	625.0	647.4	717.7	847.1	930.7	940.5	999.6	998.8
69°	8130.8	5487.4	722.9	595.1	621.2	727.4	905.4	979.3	942.7	1005.5	996.6
70°	7546.2	4969.2	664.6	574.9	609.3	744.6	944.2	978.6	931.5	985.3	970.4
72.5°	5811.8	3575.0	563.7	537.5	568.9	712.4	955.4	956.9	905.4	915.8	890.4
75°	3986.2	2259.2	492.0	486.6	507.6	642.2	919.5	914.3	837.3	822.4	801.4
77.5°	2197.9	1147.6	417.9	438.1	452.3	568.9	835.8	828.3	764.8	733.4	726.0
80°	847.8	502.4	352.9	389.5	398.4	492.7	732.7	726.0	672.9	632.4	621.2
82.5°	320.0	263.2	291.6	337.1	334.1	406.7	620.5	616.8	565.2	506.1	488.2
85°	148.0	157.7	231.0	278.1	256.5	301.3	496.4	503.1	440.3	370.1	370.1
87.5°	62.8	88.2	163.8	210.1	172.7	203.4	364.0	347.7	319.2	221.2	207.8
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)