

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: P383015

Luminaire Tested: **GLEON-SA3C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20237.9 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

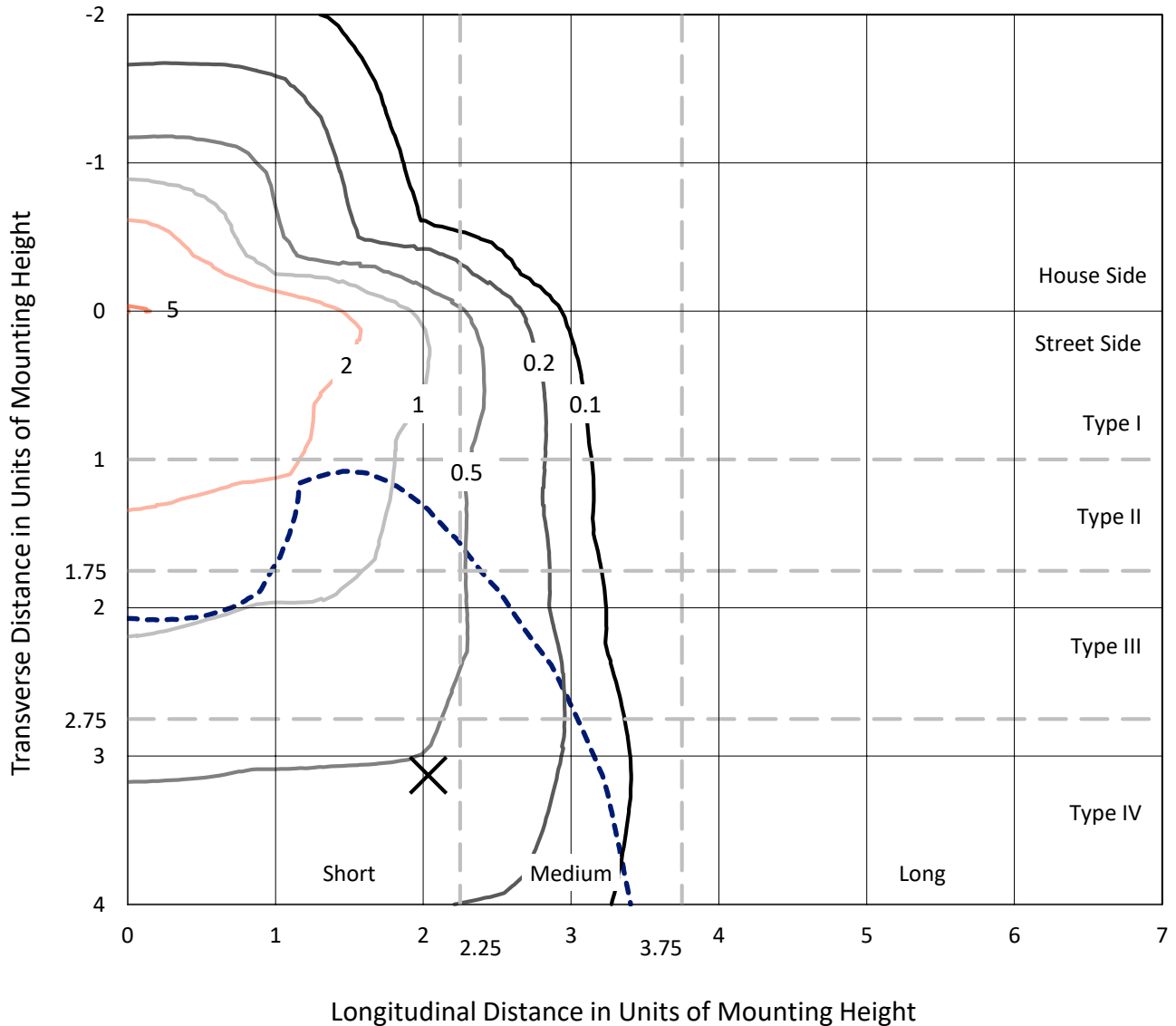




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Iso-Footcandle Lines of Horizontal Illumination

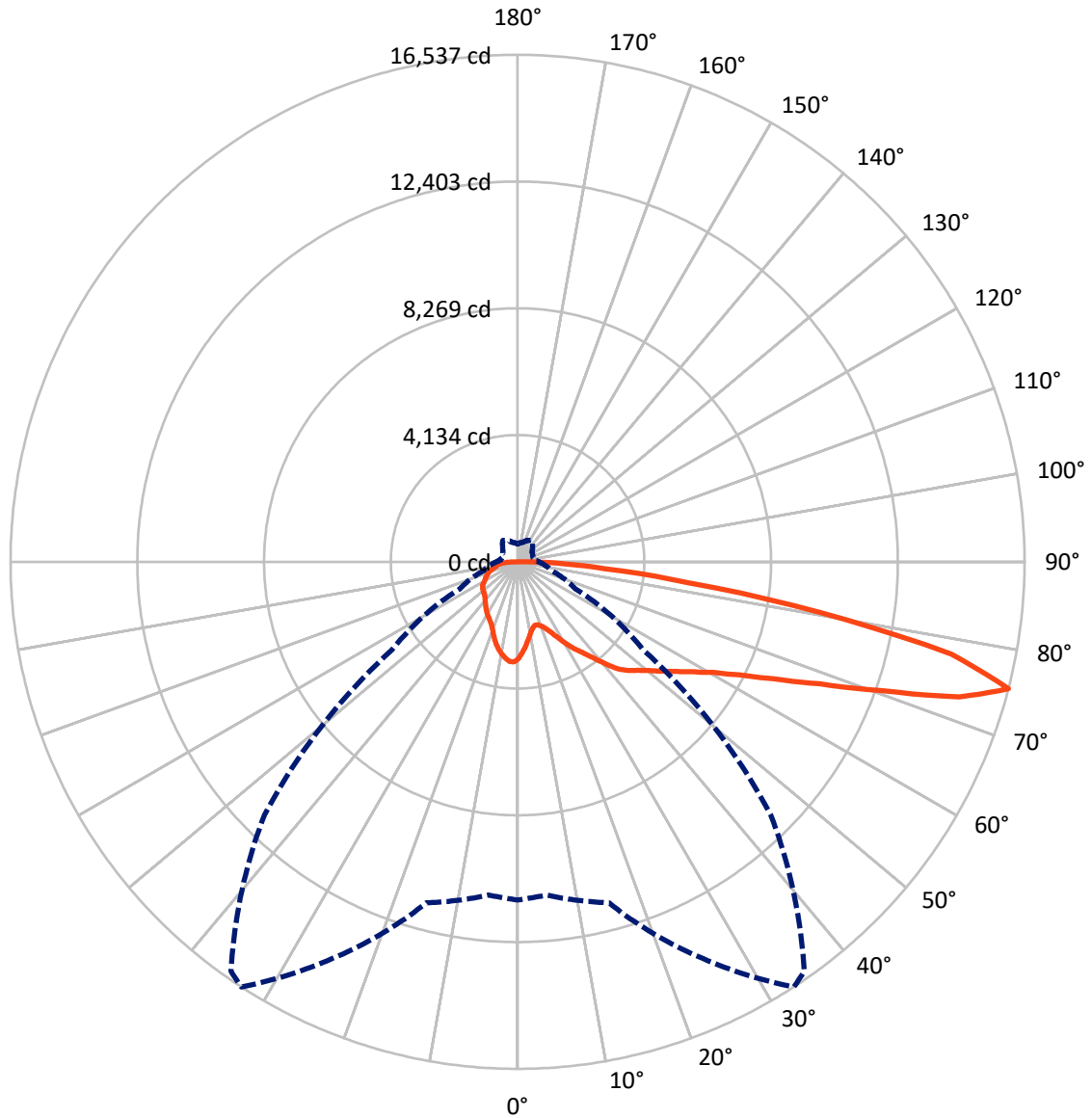
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4345.6	0.0	4345.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	15892.3	0.0	15892.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	20237.9	0.0	20237.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	1.4
10°-20°	774.8	3.8
20°-30°	1265.4	6.3
30°-40°	1884.5	9.3
40°-50°	2702.9	13.4
50°-60°	3710.6	18.3
60°-70°	4645.5	23.0
70°-80°	4202.6	20.8
80°-90°	765.5	3.8
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°	20237.9	100.0
0°-180°	20237.9	100.0

Coefficient of Utilization

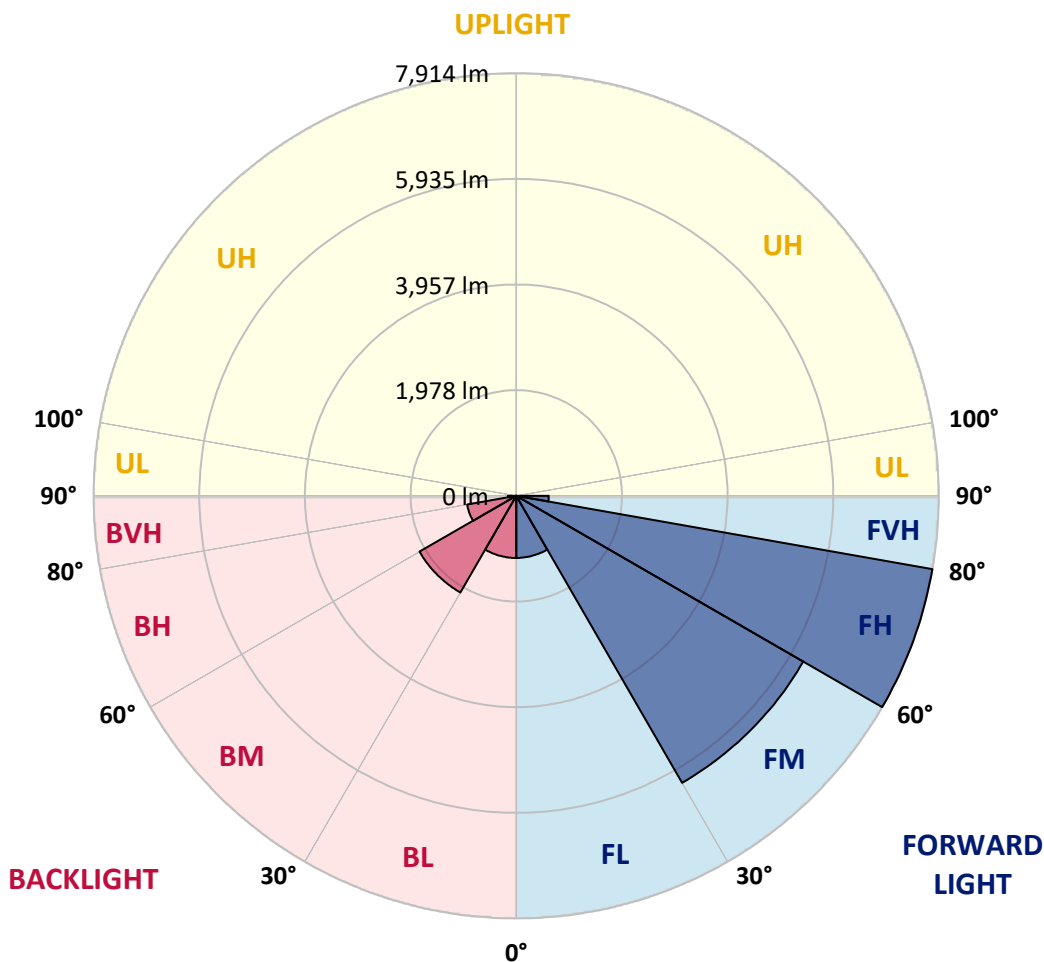


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.4	5.7			
FM (30°-60°)	6206.5	30.7			
FH (60°-80°)	7913.7	39.1			G4/12000
FVH (80°-90°)	609.7	3.0			G4/750
BL (0°-30°)	1164.0	5.8	B3/2500		
BM (30°-60°)	2091.4	10.3	B2/2500		
BH (60°-80°)	934.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	155.9	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3
2.5°	2937.4	2926.3	2947.3	2950.1	2968.3	2975.3	3000.4	3039.5	3071.7	3108.8	3142.3
5°	2671.1	2663.5	2692.8	2713.8	2753.7	2770.4	2829.9	2913.0	2987.1	3071.0	3147.2
7.5°	2418.1	2413.9	2446.7	2494.3	2540.4	2563.5	2666.3	2787.2	2910.9	3046.5	3163.3
10°	2204.9	2203.5	2235.0	2281.7	2349.5	2375.4	2508.3	2667.7	2841.0	3027.7	3190.6
12.5°	2085.4	2090.2	2104.9	2144.0	2206.9	2232.8	2380.3	2567.7	2782.3	3021.4	3230.4
15°	2114.7	2122.3	2097.2	2095.8	2140.5	2160.8	2299.2	2496.4	2740.3	3031.9	3288.5
17.5°	2239.8	2241.2	2174.8	2132.9	2160.2	2170.6	2274.1	2455.8	2715.9	3055.7	3361.1
20°	2416.0	2412.5	2295.1	2225.1	2239.8	2242.6	2309.8	2456.5	2713.8	3096.8	3455.5
22.5°	2649.5	2623.6	2465.6	2370.5	2367.1	2362.9	2401.3	2508.3	2744.5	3164.0	3568.0
25°	2954.3	2929.8	2712.4	2582.3	2554.4	2543.9	2549.6	2618.7	2805.4	3236.0	3693.9
27.5°	3293.3	3250.6	3040.9	2857.1	2799.1	2784.4	2750.9	2774.6	2871.8	3305.2	3843.5
30°	3577.1	3554.0	3370.9	3152.8	3084.3	3063.3	2975.3	2949.4	2967.5	3399.6	4032.2
32.5°	3735.8	3720.4	3609.3	3433.1	3369.5	3340.2	3215.7	3164.0	3121.3	3548.5	4288.1
35°	3928.1	3918.3	3851.2	3723.2	3628.8	3598.1	3501.7	3447.8	3338.0	3753.3	4618.8
37.5°	4172.8	4162.2	4163.6	4060.2	3947.6	3919.0	3855.4	3798.8	3619.1	4022.4	4978.1
40°	4449.5	4429.3	4421.6	4416.7	4345.4	4329.4	4295.8	4218.9	3971.4	4344.0	5332.6
42.5°	4866.2	4794.2	4640.4	4698.4	4769.1	4760.7	4788.0	4677.5	4362.9	4724.3	5678.5
45°	5268.2	5150.1	4884.4	4897.0	5051.5	5098.4	5302.5	5224.1	4787.2	5140.9	6036.4
47.5°	5451.3	5361.9	5136.1	5136.7	5289.9	5387.0	5834.5	5778.5	5233.2	5614.3	6473.4
50°	5656.2	5566.7	5363.9	5440.1	5573.7	5677.1	6348.2	6319.6	5657.6	6132.3	6997.0
52.5°	5879.8	5728.2	5599.5	5735.9	5923.2	6043.5	6862.8	6784.5	6047.0	6653.8	7598.9
55°	5882.6	5841.5	5939.3	6039.2	6319.6	6467.1	7401.8	7194.8	6364.3	7166.2	8088.9
57.5°	6217.5	6150.4	6358.0	6404.2	6770.5	6936.9	7937.9	7552.1	6687.3	7559.0	8353.2
60°	6660.8	6603.5	6773.3	6894.9	7328.4	7550.7	8510.5	7919.1	6941.1	7855.5	8340.6
62.5°	7426.2	7361.2	7359.1	7529.7	8113.4	8372.1	9152.9	8279.1	7041.8	7914.1	7984.8
65°	8546.9	8443.4	8248.3	8329.4	9197.6	9455.6	9870.9	8539.9	6908.9	7599.6	7068.3
67.5°	9637.4	9633.9	9394.1	9560.5	10629.3	10836.3	10688.8	8565.7	6494.4	6504.2	5442.3
70°	10724.4	10738.4	10697.9	11276.7	12563.7	12779.0	11559.9	8218.3	5562.5	4697.0	3260.5
72.5°	11585.7	11582.2	11786.3	13278.8	15074.0	15025.8	12293.8	7165.5	3993.8	2535.5	1558.2
75°	11027.8	10906.2	11514.4	14270.1	16537.2	16301.6	11669.6	4998.3	2072.8	1154.2	838.9
77.5°	7192.8	7308.1	8200.8	11788.5	14465.2	14178.5	8561.5	2332.1	976.6	757.1	608.2
80°	2604.7	2726.4	3840.0	6677.5	9966.0	9919.1	4216.1	958.5	660.7	571.9	443.2
82.5°	896.2	941.0	1514.9	2965.5	5626.8	5836.5	1586.1	544.6	480.3	405.5	303.4
85°	351.7	402.7	692.8	1426.8	2838.2	2859.2	642.5	325.8	334.1	265.7	166.4
87.5°	133.5	162.2	331.4	662.7	1296.1	1190.5	230.0	155.2	190.1	158.0	79.0
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°	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3
2.5°	3168.2	3182.9	3213.7	3234.6	3257.0	3263.3	3266.1	3271.7	3277.3	3275.1	3275.9
5°	3187.8	3216.4	3266.1	3287.1	3296.8	3285.7	3264.0	3246.4	3233.9	3226.9	3224.8
7.5°	3219.9	3260.5	3313.6	3310.1	3287.7	3238.1	3182.2	3140.2	3105.3	3092.6	3085.7
10°	3262.6	3310.1	3347.1	3307.3	3242.3	3156.3	3072.4	3007.4	2955.0	2934.7	2931.2
12.5°	3317.1	3365.3	3372.3	3287.7	3180.0	3062.6	2948.7	2862.7	2784.4	2759.2	2753.7
15°	3387.7	3433.1	3389.8	3253.4	3103.2	2945.2	2797.7	2680.9	2598.5	2567.7	2556.5
17.5°	3461.8	3505.1	3393.3	3196.9	3002.5	2806.1	2620.8	2501.3	2406.9	2371.3	2367.1
20°	3550.6	3570.2	3378.6	3115.7	2864.1	2625.8	2430.7	2318.2	2267.8	2242.6	2239.8
22.5°	3660.3	3639.4	3345.1	3006.0	2688.6	2417.4	2258.7	2206.3	2193.7	2188.1	2190.2
25°	3776.4	3712.0	3295.4	2862.7	2467.0	2209.1	2132.9	2147.6	2164.4	2162.2	2162.2
27.5°	3904.3	3786.2	3219.2	2672.5	2221.6	2038.5	2047.5	2101.4	2126.5	2125.9	2125.1
30°	4068.6	3870.0	3122.1	2443.9	1992.4	1918.2	1973.5	2039.2	2073.4	2072.0	2072.8
32.5°	4270.6	3962.3	2989.9	2188.8	1826.7	1829.5	1893.1	1958.1	1998.0	1994.4	1995.2
35°	4506.9	4065.8	2810.9	1937.2	1716.9	1758.9	1809.2	1854.6	1892.3	1887.5	1882.6
37.5°	4764.1	4167.2	2573.3	1712.0	1627.4	1693.2	1735.1	1742.7	1760.3	1747.7	1738.5
40°	5008.8	4244.8	2267.1	1527.5	1537.2	1637.2	1664.5	1633.7	1602.3	1598.1	1585.5
42.5°	5222.1	4270.6	1957.4	1380.0	1442.2	1578.5	1595.3	1531.0	1474.4	1447.8	1436.6
45°	5447.1	4279.7	1668.7	1256.2	1350.6	1526.1	1544.2	1458.2	1378.6	1321.2	1302.4
47.5°	5741.5	4345.4	1444.3	1164.6	1280.7	1491.1	1517.0	1400.2	1296.8	1215.0	1197.5
50°	6126.7	4475.4	1261.8	1094.8	1235.2	1468.0	1497.4	1343.6	1229.6	1131.1	1113.7
52.5°	6554.5	4595.0	1114.3	1038.1	1191.2	1427.5	1472.2	1303.0	1166.8	1053.5	1034.7
55°	6853.7	4503.4	995.5	979.4	1133.9	1369.5	1437.3	1268.8	1076.6	978.0	961.3
57.5°	6911.0	4190.2	905.3	918.6	1064.7	1296.8	1383.4	1192.6	1027.6	945.1	927.6
60°	6754.4	3754.0	838.2	862.6	990.6	1205.2	1282.8	1138.8	980.8	910.2	895.5
62.5°	6360.9	3307.3	788.6	812.3	921.4	1112.2	1219.9	1082.2	933.2	870.3	855.6
65°	5566.0	2776.7	741.0	767.6	857.0	1031.8	1163.2	1029.7	886.5	838.2	824.2
67.5°	4201.4	2079.8	696.2	720.1	799.7	961.9	1101.7	978.0	841.0	810.3	793.4
70°	2474.0	1302.4	645.3	670.4	739.6	889.3	1036.1	921.4	784.4	770.4	748.7
72.5°	1151.4	783.6	587.2	611.7	664.1	792.0	951.4	847.2	717.3	686.5	657.1
75°	687.2	573.3	518.7	540.4	577.5	688.6	845.2	771.8	653.7	613.1	582.3
77.5°	513.8	438.3	443.2	466.2	496.3	602.6	748.7	712.4	604.7	573.3	552.2
80°	369.8	332.7	361.4	386.6	418.1	548.0	717.3	658.5	546.6	504.7	485.1
82.5°	246.8	239.1	271.9	297.8	328.6	479.6	673.9	576.7	467.0	413.9	370.5
85°	136.3	144.0	183.1	194.3	220.9	337.7	552.2	463.4	351.7	283.1	270.5
87.5°	56.6	66.4	98.6	95.1	117.5	201.3	363.5	279.7	223.7	167.1	130.0
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)