

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: P383183

Luminaire Tested: **GLEON-SA5A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383183
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-SA5A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 21828 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

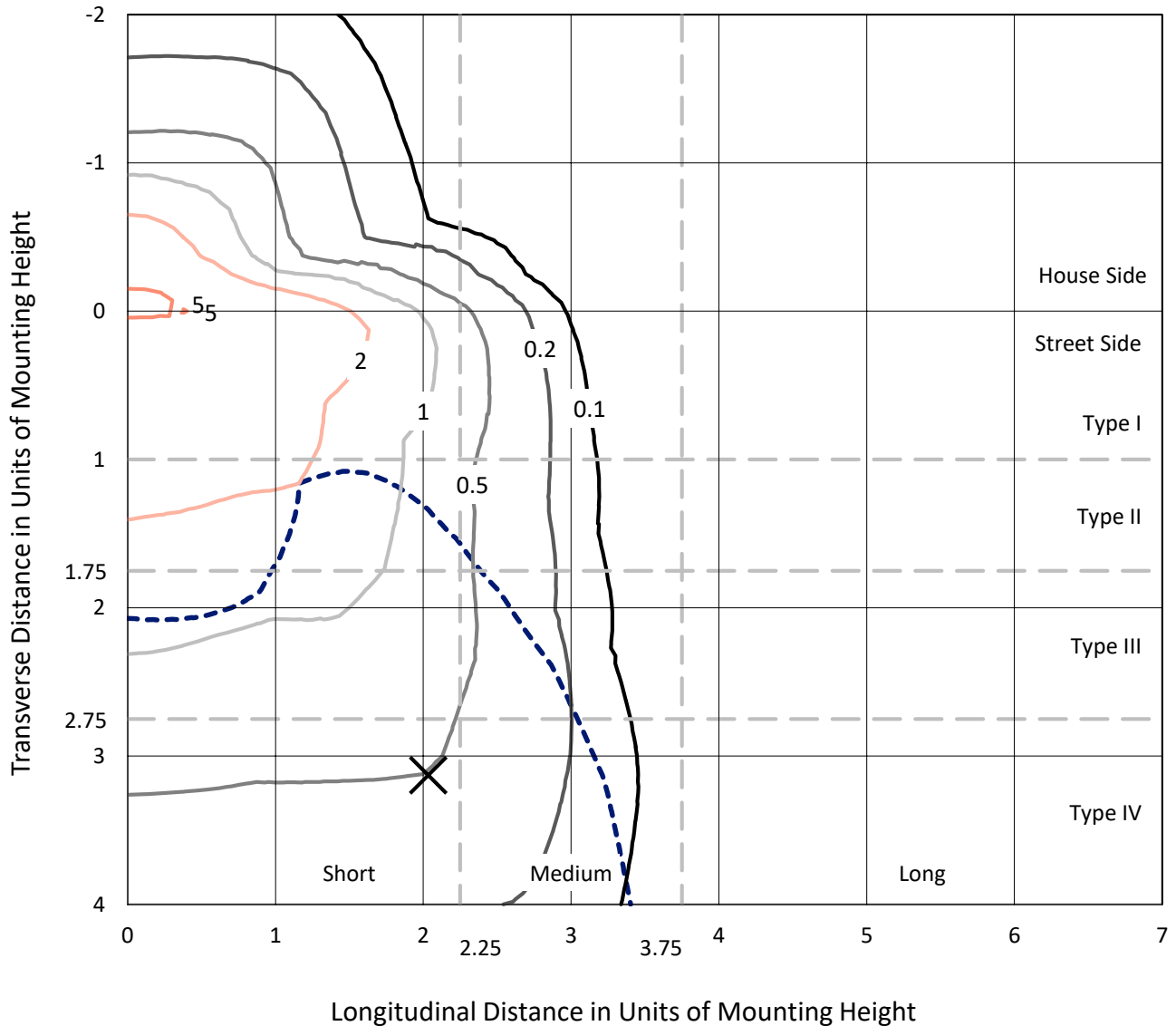




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Iso-Footcandle Lines of Horizontal Illumination

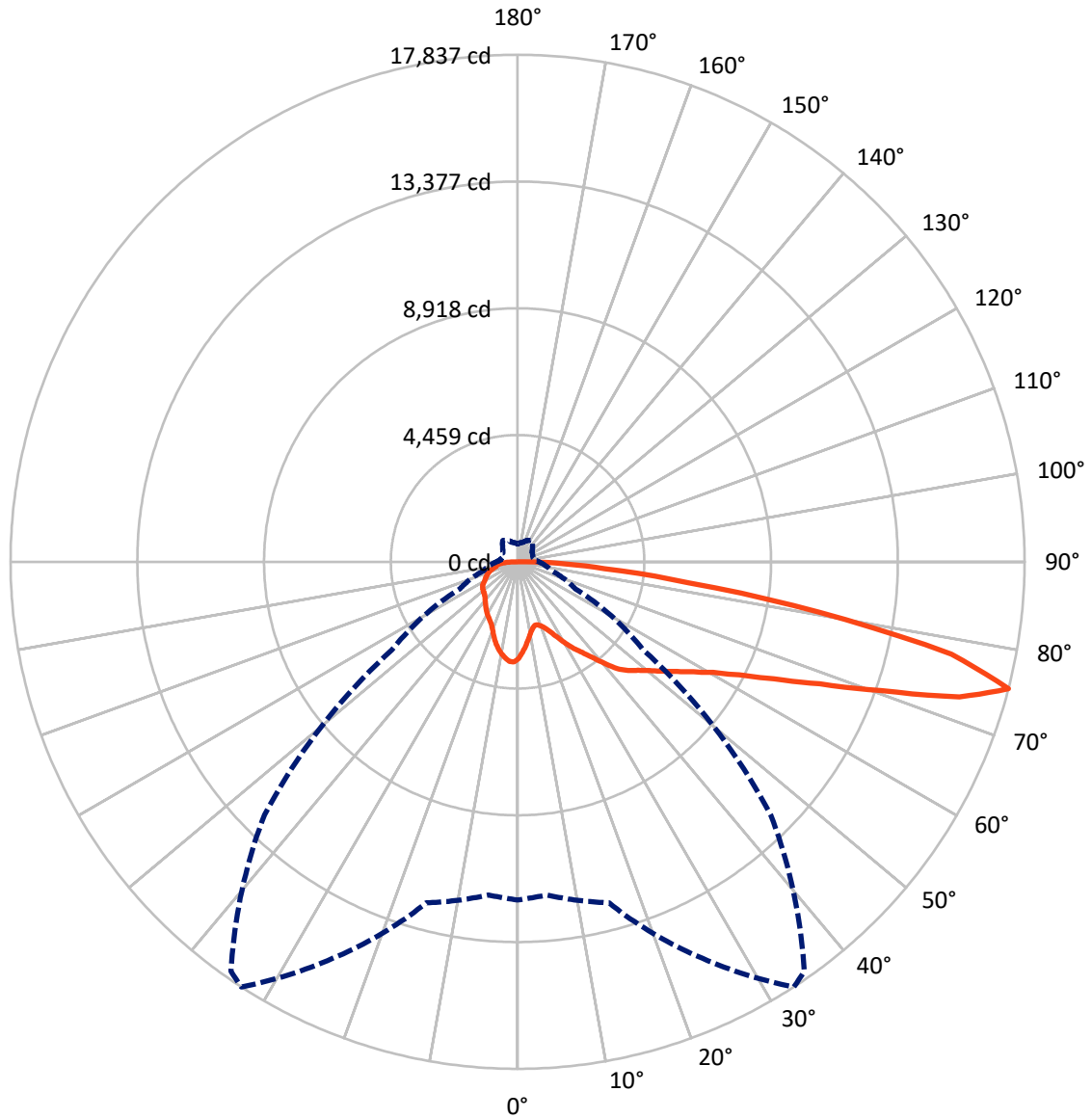
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4687.1	0.0	4687.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17141.0	0.0	17141.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	21828.0	0.0	21828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	1.4
10°-20°	835.7	3.8
20°-30°	1364.8	6.3
30°-40°	2032.5	9.3
40°-50°	2915.2	13.4
50°-60°	4002.2	18.3
60°-70°	5010.5	23.0
70°-80°	4532.8	20.8
80°-90°	825.7	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°	21828.0	100.0
0°-180°	21828.0	100.0

Coefficient of Utilization

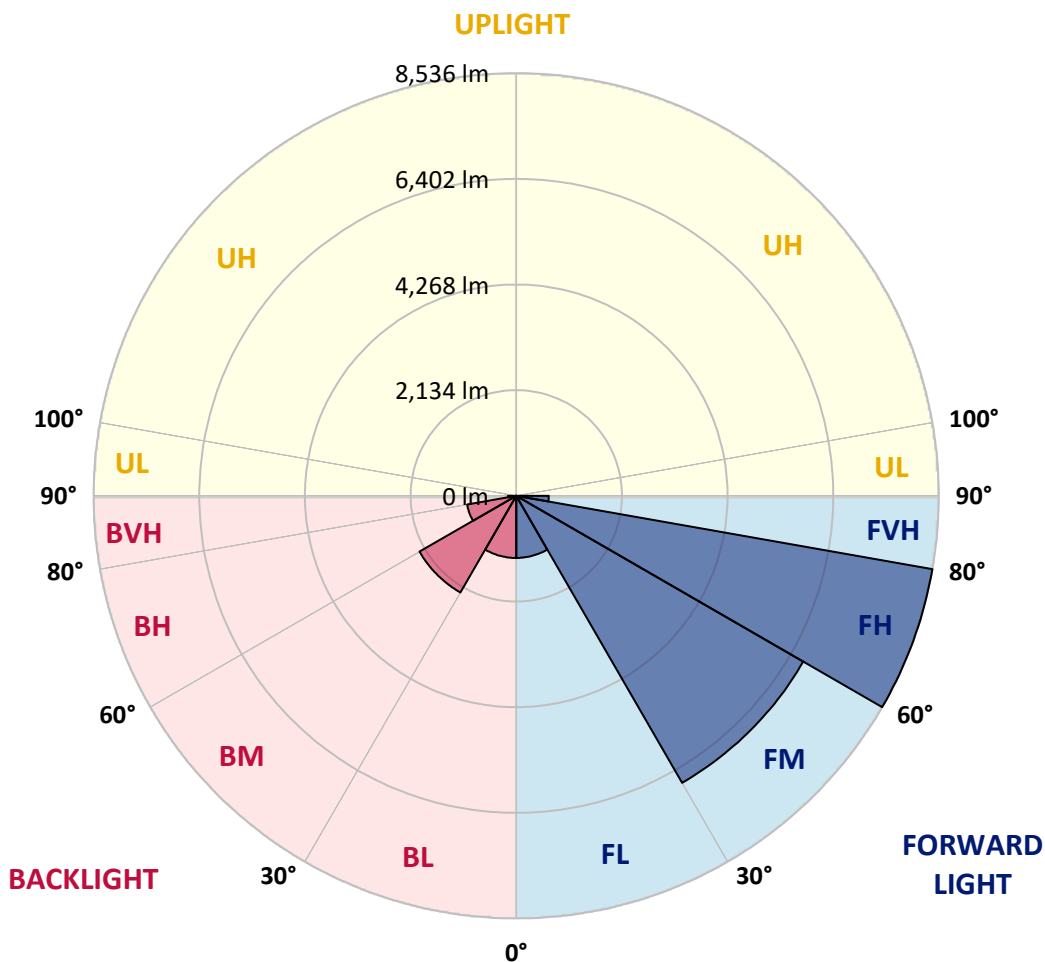


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.7	5.7			
FM (30°-60°)	6694.2	30.7			
FH (60°-80°)	8535.5	39.1			G4/12000
FVH (80°-90°)	657.6	3.0			G4/750
BL (0°-30°)	1255.4	5.8	B3/2500		
BM (30°-60°)	2255.7	10.3	B2/2500		
BH (60°-80°)	1007.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	168.1	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°	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9
2.5°	3168.3	3156.3	3178.8	3181.9	3201.4	3209.0	3236.2	3278.4	3313.0	3353.0	3389.2
5°	2881.0	2872.7	2904.4	2927.0	2970.0	2988.1	3052.2	3141.9	3221.9	3312.3	3394.5
7.5°	2608.1	2603.6	2639.0	2690.3	2740.1	2764.9	2875.8	3006.2	3139.7	3285.9	3411.9
10°	2378.1	2376.6	2410.6	2461.1	2534.2	2562.1	2705.3	2877.3	3064.2	3265.5	3441.2
12.5°	2249.2	2254.4	2270.3	2312.5	2380.4	2408.2	2567.3	2769.4	3000.9	3258.7	3484.3
15°	2280.8	2289.2	2262.0	2260.5	2308.7	2330.6	2479.9	2692.5	2955.7	3270.1	3546.8
17.5°	2415.8	2417.3	2345.7	2300.5	2329.9	2341.2	2452.8	2648.8	2929.3	3295.7	3625.2
20°	2605.8	2602.1	2475.4	2399.9	2415.8	2418.9	2491.2	2649.5	2927.0	3340.3	3727.0
22.5°	2857.6	2829.8	2659.4	2556.8	2553.0	2548.5	2590.0	2705.3	2960.2	3412.6	3848.4
25°	3186.4	3160.0	2925.5	2785.2	2755.1	2743.8	2749.8	2824.5	3025.8	3490.2	3984.1
27.5°	3552.1	3506.1	3279.9	3081.6	3019.1	3003.2	2967.0	2992.6	3097.4	3564.9	4145.5
30°	3858.2	3833.3	3635.7	3400.5	3326.6	3304.0	3209.0	3181.1	3200.7	3666.7	4349.0
32.5°	4029.4	4012.7	3892.9	3702.9	3634.2	3602.6	3468.4	3412.6	3366.6	3827.3	4625.0
35°	4236.7	4226.2	4153.8	4015.8	3914.0	3880.8	3776.8	3718.7	3600.3	4048.2	4981.6
37.5°	4500.6	4489.3	4490.8	4379.2	4257.8	4226.9	4158.3	4097.2	3903.5	4338.5	5369.3
40°	4799.2	4777.3	4769.1	4763.7	4686.9	4669.5	4633.3	4550.4	4283.4	4685.3	5751.5
42.5°	5248.6	5170.9	5005.0	5067.6	5143.8	5134.7	5164.1	5045.0	4705.7	5095.6	6124.7
45°	5682.2	5554.7	5268.2	5281.8	5448.4	5498.9	5719.1	5634.7	5163.4	5544.9	6510.8
47.5°	5879.6	5783.1	5539.6	5540.4	5705.5	5810.3	6292.9	6232.5	5644.4	6055.3	6982.0
50°	6100.6	6004.1	5785.5	5867.6	6011.6	6123.2	6847.1	6816.1	6102.1	6614.1	7546.7
52.5°	6341.9	6178.3	6039.5	6186.6	6388.6	6518.3	7402.0	7317.6	6522.0	7176.5	8195.9
55°	6344.9	6300.4	6406.0	6513.8	6816.1	6975.2	7983.4	7760.2	6864.4	7729.2	8724.5
57.5°	6706.0	6633.6	6857.6	6907.3	7302.5	7481.9	8561.7	8145.5	7212.8	8153.0	9009.6
60°	7184.1	7122.2	7305.5	7436.7	7904.2	8144.0	9179.2	8541.3	7486.5	8472.7	8996.0
62.5°	8009.7	7939.6	7937.3	8121.3	8750.9	9029.9	9872.1	8929.6	7595.0	8536.1	8612.2
65°	9218.4	9106.8	8896.5	8983.8	9920.3	10198.6	10646.5	9210.9	7451.7	8196.7	7623.7
67.5°	10394.6	10390.9	10132.3	10311.7	11464.6	11687.8	11528.6	9238.7	7004.7	7015.2	5869.9
70°	11567.1	11582.2	11538.4	12162.8	13550.9	13783.1	12468.1	8864.0	5999.5	5066.1	3516.7
72.5°	12496.1	12492.2	12712.5	14322.2	16258.5	16206.4	13259.8	7728.5	4307.6	2734.7	1680.7
75°	11894.3	11763.1	12419.1	15391.4	17836.6	17582.5	12586.5	5391.1	2235.6	1244.8	904.8
77.5°	7757.9	7882.3	8845.1	12714.7	15601.7	15292.6	9234.2	2515.4	1053.3	816.6	656.0
80°	2809.4	2940.6	4141.8	7202.2	10749.0	10698.5	4547.3	1033.7	712.5	616.8	478.1
82.5°	966.7	1014.9	1633.9	3198.5	6068.9	6295.1	1710.8	587.3	518.0	437.4	327.3
85°	379.2	434.3	747.2	1538.9	3061.3	3083.9	692.9	351.4	360.4	286.5	179.4
87.5°	144.0	174.9	357.4	714.8	1397.9	1284.0	248.1	167.4	205.1	170.4	85.2
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°	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9	3411.9
2.5°	3417.1	3432.9	3466.1	3488.7	3512.9	3519.7	3522.6	3528.7	3534.8	3532.5	3533.3
5°	3438.2	3469.2	3522.6	3545.3	3555.8	3543.8	3520.4	3501.6	3488.0	3480.4	3478.2
7.5°	3472.9	3516.7	3574.0	3570.2	3546.0	3492.6	3432.2	3386.9	3349.3	3335.7	3328.1
10°	3518.9	3570.2	3610.1	3567.2	3497.0	3404.3	3313.8	3243.7	3187.2	3165.3	3161.5
12.5°	3577.7	3629.8	3637.3	3546.0	3430.0	3303.3	3180.4	3087.6	3003.2	2976.0	2970.0
15°	3653.9	3702.9	3656.1	3509.1	3347.0	3176.6	3017.5	2891.6	2802.7	2769.4	2757.4
17.5°	3733.8	3780.6	3659.9	3448.0	3238.4	3026.5	2826.8	2697.8	2596.0	2557.6	2553.0
20°	3829.6	3850.6	3644.0	3360.6	3089.1	2832.0	2621.7	2500.3	2446.0	2418.9	2415.8
22.5°	3947.9	3925.4	3607.9	3242.2	2899.9	2607.3	2436.2	2379.6	2366.0	2360.0	2362.3
25°	4073.1	4003.7	3554.3	3087.6	2660.9	2382.6	2300.5	2316.3	2334.4	2332.1	2332.1
27.5°	4211.1	4083.6	3472.2	2882.6	2396.2	2198.6	2208.4	2266.5	2293.7	2292.9	2292.2
30°	4388.2	4174.2	3367.4	2636.0	2148.9	2069.0	2128.5	2199.4	2236.4	2234.9	2235.6
32.5°	4606.1	4273.7	3224.8	2360.7	1970.2	1973.2	2041.9	2111.9	2154.9	2151.1	2151.9
35°	4861.0	4385.3	3031.8	2089.4	1851.8	1897.1	1951.3	2000.3	2041.1	2035.8	2030.5
37.5°	5138.5	4494.6	2775.5	1846.5	1755.3	1826.2	1871.4	1879.7	1898.6	1885.0	1875.2
40°	5402.4	4578.3	2445.2	1647.4	1658.1	1765.8	1795.3	1762.1	1728.2	1723.6	1710.0
42.5°	5632.3	4606.1	2111.2	1488.4	1555.5	1702.5	1720.7	1651.3	1590.2	1561.6	1549.4
45°	5875.2	4616.0	1799.7	1354.9	1456.8	1646.0	1665.6	1572.8	1486.8	1425.1	1404.7
47.5°	6192.6	4686.9	1557.7	1256.2	1381.3	1608.3	1636.2	1510.2	1398.6	1310.4	1291.6
50°	6608.0	4827.1	1361.0	1180.7	1332.3	1583.4	1615.0	1449.2	1326.2	1220.0	1201.1
52.5°	7069.5	4956.0	1201.9	1119.7	1284.8	1539.7	1587.9	1405.4	1258.4	1136.3	1115.9
55°	7392.2	4857.3	1073.7	1056.4	1223.0	1477.1	1550.2	1368.5	1161.2	1054.9	1036.7
57.5°	7454.1	4519.5	976.4	990.8	1148.3	1398.6	1492.2	1286.3	1108.4	1019.4	1000.6
60°	7285.2	4049.0	904.1	930.4	1068.4	1299.9	1383.6	1228.2	1057.9	981.7	965.8
62.5°	6860.7	3567.2	850.5	876.1	993.8	1199.6	1315.7	1167.2	1006.6	938.7	922.9
65°	6003.4	2994.9	799.3	827.9	924.4	1112.9	1254.6	1110.7	956.0	904.1	889.0
67.5°	4531.5	2243.2	751.0	776.6	862.6	1037.5	1188.3	1054.9	907.0	873.9	855.8
70°	2668.4	1404.7	696.0	723.1	797.7	959.1	1117.4	993.8	846.0	830.9	807.6
72.5°	1241.8	845.2	633.4	659.7	716.3	854.3	1026.2	913.8	773.6	740.4	708.7
75°	741.1	618.3	559.5	582.9	622.8	742.7	911.6	832.4	705.0	661.2	628.0
77.5°	554.2	472.8	478.1	502.9	535.4	649.9	807.6	768.3	652.2	618.3	595.6
80°	398.9	358.9	389.9	417.0	450.9	591.2	773.6	710.3	589.7	544.4	523.3
82.5°	266.1	257.9	293.3	321.2	354.4	517.3	726.9	622.1	503.7	446.4	399.6
85°	147.0	155.3	197.6	209.6	238.3	364.1	595.6	499.9	379.2	305.4	291.8
87.5°	61.1	71.6	106.3	102.6	126.7	217.1	392.1	301.6	241.3	180.2	140.2
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)