

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: P383017

Luminaire Tested: **GLEON-SA3C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
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-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19974.2 lumens
Efficiency: N/A
Efficacy: 120.3 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

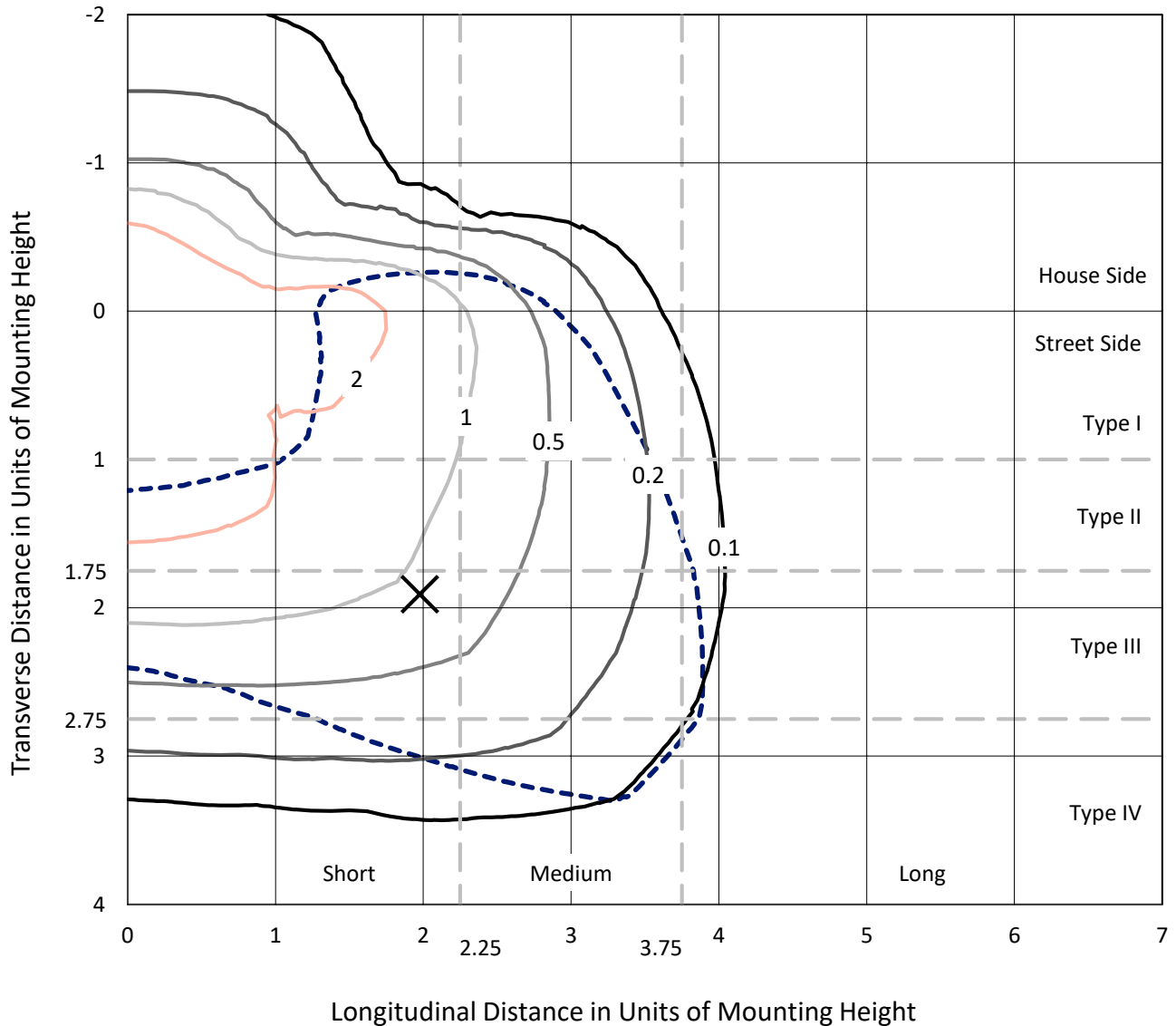




REPORT NUMBER: P383017
 CATALOG NUMBER: GLEON-SA3C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

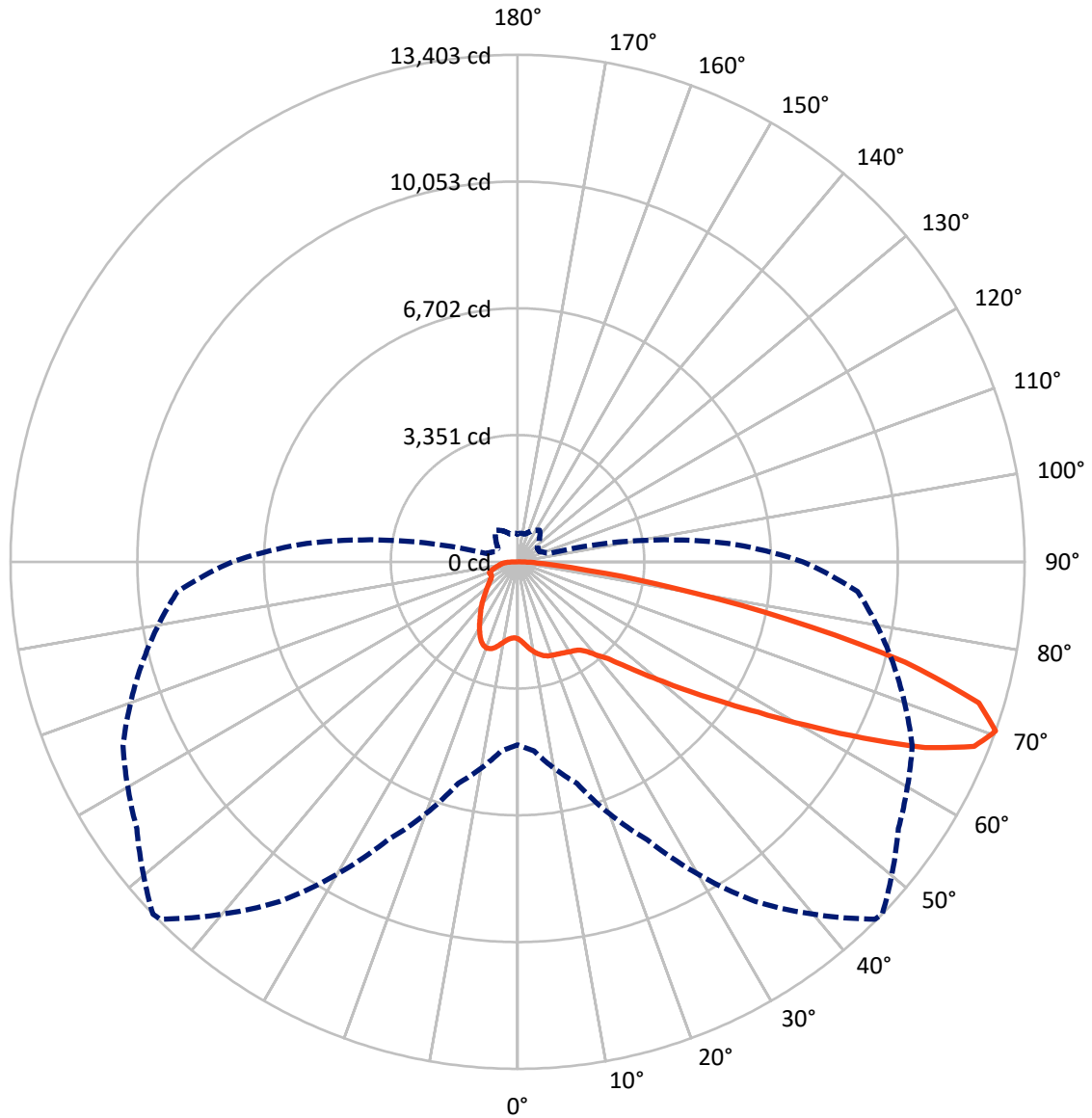
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P383017
CATALOG NUMBER: GLEON-SA3C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4578.0	0.0	4578.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15396.2	0.0	15396.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	19974.2	0.0	19974.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	1.0
10°-20°	691.2	3.5
20°-30°	1152.4	5.8
30°-40°	1635.4	8.2
40°-50°	2405.6	12.0
50°-60°	4073.8	20.4
60°-70°	5782.7	29.0
70°-80°	3513.0	17.6
80°-90°	512.7	2.6
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°	19974.2	100.0
0°-180°	19974.2	100.0

Coefficient of Utilization



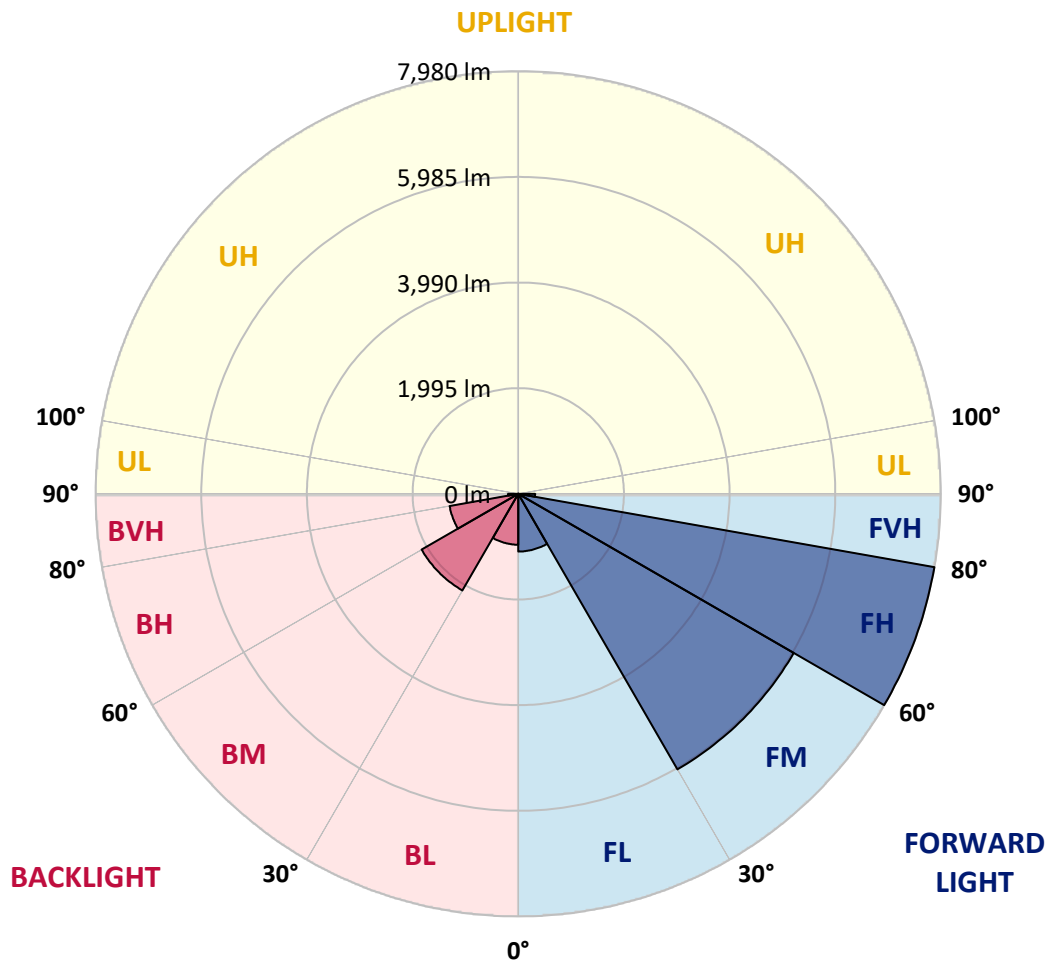
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.9	5.5			
FM (30°-60°)	6007.4	30.1			
FH (60°-80°)	7979.6	39.9			G4/12000
FVH (80°-90°)	319.4	1.6			G3/500
BL (0°-30°)	961.2	4.8	B2/1000		
BM (30°-60°)	2107.4	10.6	B2/2500		
BH (60°-80°)	1316.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	193.3	1.0			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





REPORT NUMBER: P383017

CATALOG NUMBER: GLEON-SA3C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0
2.5°	2136.9	2138.2	2141.0	2134.1	2115.0	2109.5	2107.4	2087.6	2074.6	2055.5	2039.1
5°	2307.7	2309.1	2305.0	2285.8	2243.4	2212.1	2209.3	2164.2	2123.2	2079.4	2046.6
7.5°	2486.1	2488.2	2475.2	2439.0	2379.5	2324.9	2321.4	2259.8	2197.7	2131.4	2082.2
10°	2644.0	2635.8	2614.7	2564.1	2493.7	2426.7	2424.0	2359.7	2287.9	2208.0	2142.3
12.5°	2749.3	2742.5	2715.2	2653.6	2576.4	2514.8	2509.4	2449.9	2380.2	2292.7	2214.1
15°	2807.4	2812.2	2775.3	2705.6	2630.4	2578.4	2573.7	2531.3	2469.1	2380.8	2290.7
17.5°	2815.0	2819.0	2783.5	2714.4	2653.0	2617.4	2615.3	2587.3	2542.2	2457.4	2363.1
20°	2771.2	2774.0	2744.5	2687.8	2647.5	2636.6	2635.8	2623.5	2590.1	2514.8	2423.2
22.5°	2707.6	2709.7	2688.4	2647.5	2633.8	2650.9	2655.7	2650.9	2627.0	2556.5	2470.5
25°	2691.9	2690.5	2668.7	2627.0	2638.6	2674.8	2681.0	2683.0	2666.6	2605.1	2530.5
27.5°	2767.8	2763.0	2721.3	2654.3	2661.8	2705.6	2713.8	2733.6	2723.4	2669.3	2598.9
30°	2987.2	2979.0	2893.6	2758.2	2721.3	2743.9	2754.1	2785.5	2787.6	2742.5	2689.8
32.5°	3357.7	3347.4	3194.3	2952.4	2821.8	2782.8	2792.4	2839.5	2864.9	2829.9	2773.2
35°	3826.0	3814.3	3613.4	3282.5	2989.9	2857.3	2864.1	2901.8	2952.4	2903.1	2827.9
37.5°	4314.0	4286.0	4092.6	3670.8	3257.2	3016.6	3016.6	3021.4	3045.3	2942.8	2892.2
40°	4799.3	4771.3	4596.3	4127.4	3603.1	3267.5	3251.8	3145.7	3126.6	3038.4	3021.4
42.5°	5250.5	5242.3	5139.1	4643.5	4009.1	3514.3	3492.4	3312.6	3316.7	3262.0	3262.7
45°	5730.3	5730.3	5646.3	5164.4	4482.1	3910.7	3888.8	3624.3	3665.3	3640.0	3700.9
47.5°	6122.0	6134.3	6122.7	5707.1	5032.4	4414.5	4374.8	4056.3	4171.1	4257.9	4435.0
50°	6522.0	6541.0	6543.1	6302.5	5697.5	5013.3	4968.2	4629.8	4886.2	5135.0	5482.9
52.5°	7102.3	7145.3	6973.8	6896.5	6512.4	5724.2	5679.7	5367.4	5795.3	6144.6	6744.1
55°	7640.3	7602.6	7480.3	7528.1	7384.6	6533.6	6500.1	6225.9	6808.3	7262.3	8040.8
57.5°	7931.5	7928.7	8051.7	8256.9	8325.1	7531.6	7503.5	7236.9	7950.6	8291.7	9258.3
60°	8273.3	8278.0	8582.9	9048.4	9330.0	8774.2	8762.0	8559.6	9060.0	9252.8	10213.2
62.5°	8321.0	8407.2	8932.2	9733.4	10270.6	10226.2	10253.5	9751.1	10052.6	10019.7	10926.1
65°	7770.8	7884.2	8834.4	9940.5	11205.8	11814.2	11839.4	10949.4	10835.3	10675.3	11181.2
67.5°	6643.0	6811.1	7843.3	9490.0	11514.0	12987.8	13023.3	11878.3	11484.7	10897.4	10567.3
70°	4834.2	5020.9	6059.8	8105.1	10964.4	13363.1	13403.4	12289.2	11509.3	10265.2	9021.0
72.5°	2920.2	3066.5	3923.0	5966.8	9254.2	12679.5	12751.3	11768.3	10507.9	8695.0	6661.4
75°	1282.4	1378.0	1896.9	3438.3	6625.2	10490.7	10580.2	10073.1	8537.8	6318.9	3937.4
77.5°	546.2	573.6	777.9	1493.6	3745.3	7168.6	7291.6	7360.0	5792.5	3438.3	1663.8
80°	340.4	351.4	440.2	676.0	1752.7	4026.2	4158.8	4330.4	2876.4	1263.9	581.0
82.5°	207.1	219.4	292.6	408.8	912.5	1825.1	1888.7	2009.7	1116.3	546.2	300.8
85°	124.5	133.3	179.1	258.4	519.5	717.8	717.1	792.9	525.7	351.4	158.5
87.5°	59.4	66.3	95.7	134.0	261.8	269.3	252.3	285.7	319.2	230.4	80.0
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°	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0	2035.0
2.5°	2033.7	2030.9	2022.0	2015.1	2013.8	2009.7	2006.3	2008.3	2011.0	2011.8	2011.8
5°	2032.9	2025.4	2013.8	2009.0	2015.1	2023.3	2033.7	2047.3	2055.5	2061.6	2065.7
7.5°	2065.7	2051.4	2038.4	2035.7	2048.0	2069.8	2093.1	2121.8	2141.6	2155.3	2158.0
10°	2120.4	2102.7	2089.6	2092.4	2114.2	2145.7	2178.5	2215.4	2245.5	2263.9	2265.3
12.5°	2183.4	2166.2	2153.9	2165.6	2201.8	2240.1	2274.2	2306.3	2333.7	2352.2	2352.2
15°	2255.7	2243.4	2229.1	2255.7	2305.0	2339.2	2353.6	2369.2	2384.3	2398.0	2395.2
17.5°	2325.5	2313.9	2306.3	2337.8	2389.0	2404.8	2395.2	2383.6	2383.6	2391.1	2392.5
20°	2385.7	2375.4	2380.2	2410.9	2437.6	2421.2	2385.7	2348.7	2333.7	2337.8	2341.9
22.5°	2438.3	2433.5	2447.8	2462.2	2443.1	2385.7	2320.0	2270.1	2251.6	2250.3	2251.6
25°	2499.8	2499.2	2516.9	2491.0	2406.2	2300.2	2212.1	2163.5	2153.3	2161.5	2175.1
27.5°	2576.4	2583.9	2592.8	2497.8	2331.0	2171.0	2081.4	2048.0	2058.3	2078.0	2091.0
30°	2674.1	2694.6	2675.5	2480.7	2223.0	2023.3	1937.9	1928.3	1956.3	1984.4	1998.1
32.5°	2769.1	2801.3	2754.8	2436.3	2083.5	1866.8	1800.5	1797.8	1832.0	1859.3	1878.5
35°	2845.7	2909.2	2814.3	2348.1	1922.2	1722.6	1674.1	1655.6	1667.9	1700.1	1721.9
37.5°	2945.5	3051.5	2855.3	2213.4	1747.2	1603.7	1546.9	1504.5	1493.6	1506.6	1517.5
40°	3128.0	3268.1	2874.4	2025.4	1576.3	1484.7	1427.3	1365.1	1322.1	1290.6	1291.2
42.5°	3426.0	3550.5	2862.1	1797.1	1418.4	1368.5	1303.6	1231.8	1162.1	1090.9	1085.5
45°	3910.0	3970.2	2825.2	1555.1	1279.7	1246.8	1186.0	1114.2	1021.3	940.6	933.0
47.5°	4684.5	4551.2	2767.8	1343.9	1157.3	1143.6	1087.6	1004.9	906.4	841.5	836.0
50°	5740.6	5389.9	2739.8	1175.7	1049.3	1053.4	1007.6	920.1	827.1	779.2	773.8
52.5°	7003.8	6366.8	2793.7	1045.8	962.5	976.8	942.6	860.7	782.7	745.1	739.6
55°	8314.2	7378.4	2851.8	951.5	880.4	908.4	896.8	829.2	758.7	723.9	719.2
57.5°	9436.0	8133.8	2735.7	875.0	807.3	851.1	861.3	809.3	746.4	715.1	709.6
60°	10142.1	8438.0	2430.8	803.2	749.2	805.2	840.8	803.8	751.2	748.5	744.4
62.5°	10477.0	8411.3	1973.5	746.4	713.0	785.4	855.8	834.7	805.9	830.6	832.6
65°	10326.7	8009.4	1469.7	708.8	687.0	792.9	900.9	892.7	821.6	846.2	849.7
67.5°	9336.9	7050.3	1088.2	676.0	658.2	814.2	983.0	911.9	790.9	808.7	797.7
70°	7546.6	5589.6	839.4	639.1	628.9	811.4	1019.9	900.2	757.3	761.5	732.1
72.5°	5204.0	3811.6	682.9	604.9	586.5	739.6	993.9	871.6	729.4	697.9	659.0
75°	2829.9	2046.0	580.4	569.5	512.0	649.4	946.1	851.1	704.1	662.4	640.5
77.5°	1113.6	849.0	503.8	520.9	447.7	573.6	892.7	812.1	669.2	614.5	603.5
80°	454.6	433.4	417.7	450.5	384.8	501.7	828.5	766.3	627.5	570.1	548.2
82.5°	257.7	269.3	324.7	355.5	312.3	462.0	797.7	729.4	577.7	510.6	484.7
85°	131.9	157.9	226.3	255.0	229.7	393.0	734.8	638.5	463.4	391.0	393.0
87.5°	63.5	88.2	142.9	159.9	149.0	284.4	548.9	462.8	360.9	285.7	276.9
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)