

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: P191562

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19706.1 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

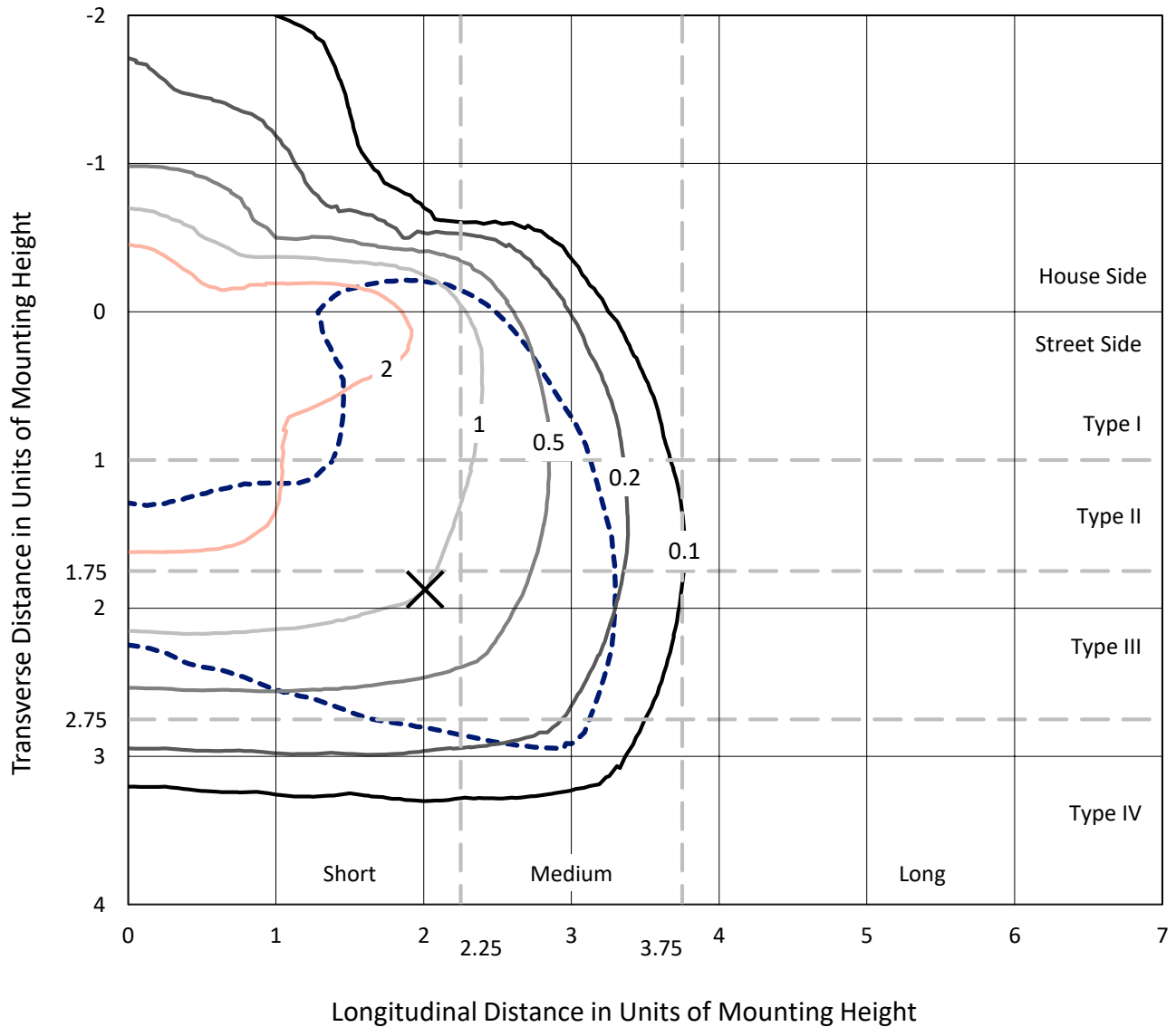
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

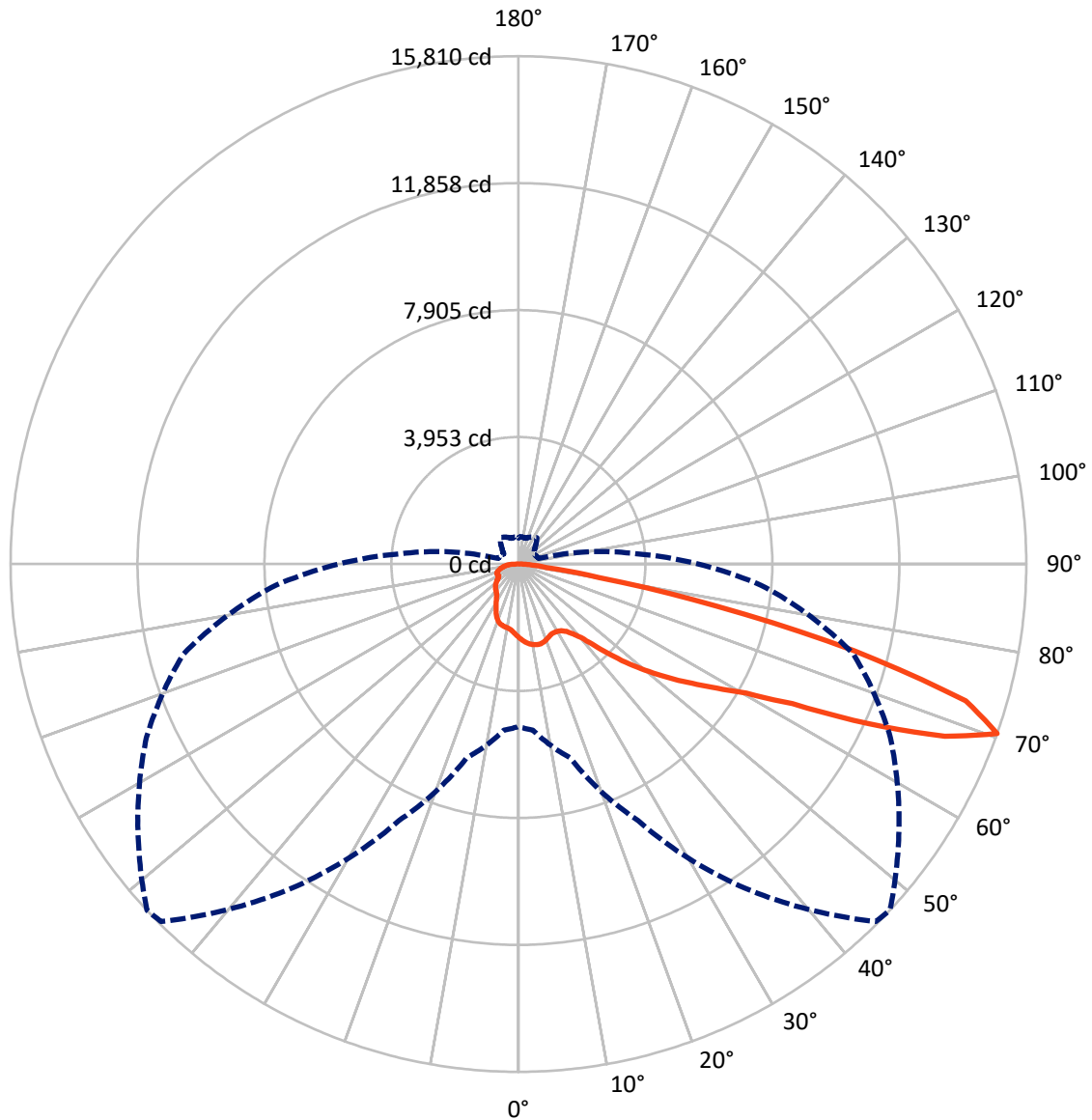
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4111.1	0.0	4111.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15595.0	0.0	15595.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	19706.1	0.0	19706.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	1.1
10°-20°	642.7	3.3
20°-30°	949.2	4.8
30°-40°	1379.6	7.0
40°-50°	2482.8	12.6
50°-60°	4301.1	21.8
60°-70°	6139.0	31.2
70°-80°	3151.4	16.0
80°-90°	441.2	2.2
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°	19706.1	100.0
0°-180°	19706.1	100.0



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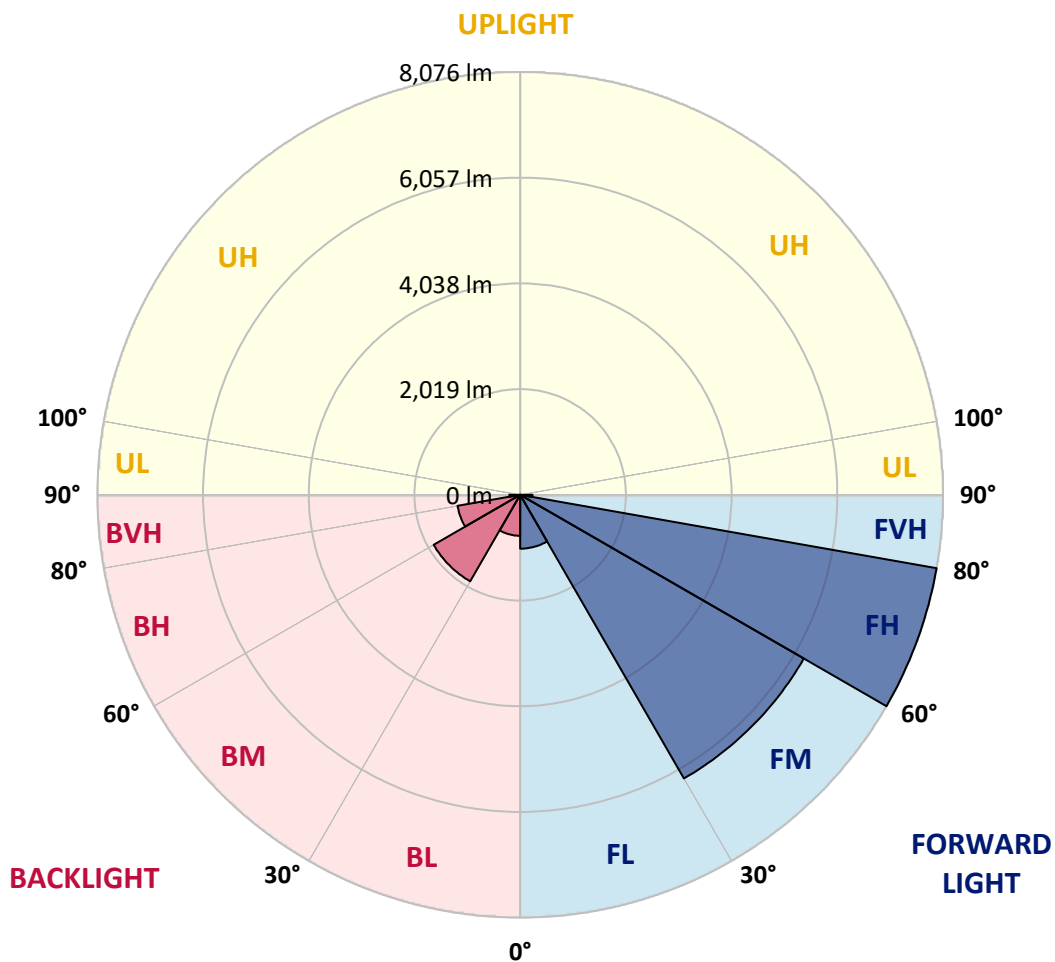
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1028.2	5.2			
FM	(30°-60°)	6255.3	31.7			
FH	(60°-80°)	8076.1	41.0			G4/12000
FVH	(80°-90°)	235.4	1.2			G3/500
BL	(0°-30°)	782.8	4.0	B2/1000		
BM	(30°-60°)	1908.2	9.7	B2/2500		
BH	(60°-80°)	1214.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	205.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5
2.5°	2420.7	2415.9	2414.1	2410.2	2405.4	2381.4	2376.6	2359.4	2335.4	2310.5	2284.6
5°	2579.9	2579.0	2568.4	2549.2	2518.5	2465.8	2453.3	2411.2	2354.6	2299.9	2245.3
7.5°	2719.8	2711.2	2691.1	2652.7	2599.1	2527.2	2509.9	2451.4	2373.8	2299.0	2225.1
10°	2822.4	2817.6	2773.5	2720.8	2650.9	2571.3	2551.1	2486.0	2400.7	2305.7	2213.7
12.5°	2880.9	2871.3	2820.5	2757.3	2673.9	2596.1	2576.1	2509.9	2414.1	2305.7	2197.4
15°	2877.0	2870.4	2819.6	2750.5	2666.2	2598.1	2579.9	2513.7	2411.2	2296.1	2176.2
17.5°	2800.4	2803.3	2760.1	2692.1	2623.1	2571.3	2554.9	2493.6	2392.0	2277.0	2151.4
20°	2666.2	2679.6	2650.9	2590.4	2552.1	2516.7	2506.0	2454.3	2362.3	2249.2	2124.5
22.5°	2531.9	2544.4	2532.9	2482.1	2476.4	2455.3	2449.5	2412.1	2336.4	2231.9	2108.2
25°	2433.2	2444.8	2442.8	2398.7	2415.9	2415.0	2410.2	2392.0	2330.6	2231.9	2111.1
27.5°	2406.4	2410.2	2406.4	2366.1	2390.0	2409.3	2405.4	2402.5	2347.9	2259.7	2147.5
30°	2498.4	2492.6	2463.0	2381.4	2403.5	2430.3	2426.5	2428.4	2399.6	2332.5	2229.0
32.5°	2865.6	2839.7	2745.7	2516.7	2458.2	2472.5	2474.4	2506.0	2510.8	2444.8	2355.5
35°	3414.9	3386.2	3264.4	2879.0	2627.9	2577.9	2577.9	2625.9	2654.7	2605.8	2552.1
37.5°	3996.9	3965.3	3900.0	3381.4	2984.5	2761.0	2756.3	2789.9	2831.1	2842.6	2856.0
40°	4658.4	4624.9	4643.1	3945.1	3482.0	3078.5	3010.3	2986.4	3097.6	3171.5	3278.8
42.5°	5382.2	5366.8	5373.6	4573.0	4048.6	3553.0	3456.1	3332.5	3466.7	3598.0	3823.4
45°	6052.3	6065.8	6059.0	5245.1	4679.5	4132.0	4029.5	3789.8	3921.2	4146.4	4513.6
47.5°	6639.1	6583.5	6669.7	5979.5	5386.0	4780.1	4653.6	4332.4	4465.7	4743.7	5365.0
50°	7351.4	7343.8	7217.1	6959.2	6240.2	5431.1	5265.2	4893.3	5100.3	5486.7	6437.7
52.5°	8100.1	7961.1	7845.1	7721.4	7146.2	6098.3	5895.1	5452.2	5846.2	6332.3	7745.4
55°	8253.6	8191.2	8335.0	8543.1	8019.6	6791.5	6554.7	6153.0	6686.0	7298.7	9253.5
57.5°	8581.4	8580.4	8877.7	9248.7	8918.9	7526.9	7288.1	6999.5	7630.4	8406.0	10854.5
60°	8802.9	8865.2	9417.4	10137.4	9801.8	8376.2	8156.7	7976.5	8704.1	9643.7	12346.3
62.5°	8918.9	9003.3	9756.8	10497.8	11050.1	9790.4	9570.8	9311.0	10125.0	11001.2	13218.7
65°	8436.7	8602.5	9704.0	10809.4	12143.0	12082.6	11983.9	11527.5	11901.4	12074.0	12903.3
67.5°	7102.1	7271.9	8554.5	10519.0	12923.4	14293.4	14314.5	13535.1	12994.3	12166.1	10848.8
70°	5060.0	5193.3	6254.6	8819.2	12329.0	15738.2	15810.1	14460.2	12776.8	10789.4	7579.6
72.5°	2402.5	2484.0	3488.8	5739.8	9783.6	14419.9	14558.9	13279.1	10864.1	7988.0	4134.9
75°	883.0	907.9	1179.3	2441.9	5674.6	10634.0	10798.0	9519.1	7201.9	3976.7	1575.1
77.5°	529.2	545.5	661.5	1030.6	2231.9	6078.3	6320.8	5177.1	3147.4	1480.2	774.7
80°	370.1	381.6	474.5	641.4	1054.6	2316.3	2531.9	2113.0	1254.0	936.6	563.7
82.5°	250.2	255.9	333.6	433.3	700.8	827.4	892.5	939.6	845.6	696.9	357.6
85°	164.0	169.7	226.3	285.7	445.8	427.6	437.2	553.2	617.5	473.6	198.5
87.5°	93.9	97.8	136.2	152.4	218.6	181.2	183.1	291.4	395.0	319.3	120.8
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°	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5	2286.5
2.5°	2277.9	2265.4	2237.6	2220.4	2204.0	2200.3	2193.5	2192.6	2191.6	2191.6	2188.7
5°	2227.1	2206.0	2162.8	2138.9	2118.7	2116.8	2115.9	2120.7	2122.6	2124.5	2121.6
7.5°	2194.5	2165.7	2112.1	2077.5	2053.6	2047.8	2057.4	2079.5	2093.8	2099.6	2096.7
10°	2174.4	2138.9	2076.6	2039.2	2019.0	2016.1	2028.6	2054.5	2084.3	2095.7	2094.8
12.5°	2151.4	2111.1	2044.9	2005.6	1994.1	1999.9	2016.1	2040.2	2070.9	2089.1	2090.0
15°	2128.4	2081.4	2013.3	1978.8	1974.0	1981.7	1997.0	2015.2	2039.2	2057.4	2059.3
17.5°	2100.5	2051.6	1983.6	1948.1	1944.2	1948.1	1949.0	1958.6	1974.0	1991.3	1996.1
20°	2070.9	2020.9	1950.1	1914.6	1897.3	1881.9	1864.7	1866.6	1871.4	1888.7	1892.5
22.5°	2049.7	1999.9	1924.2	1875.3	1829.2	1783.2	1748.7	1743.9	1745.8	1760.2	1765.0
25°	2051.6	1998.9	1917.4	1833.0	1732.4	1658.6	1612.6	1604.9	1603.9	1614.4	1621.2
27.5°	2089.1	2036.3	1942.4	1790.0	1626.9	1517.6	1468.8	1463.0	1455.4	1458.2	1465.9
30°	2172.4	2123.5	2002.7	1745.8	1512.8	1379.6	1328.8	1323.0	1312.4	1307.6	1313.5
32.5°	2308.6	2268.3	2090.9	1703.6	1398.8	1261.7	1209.8	1197.5	1190.7	1185.0	1189.8
35°	2534.9	2517.6	2208.9	1657.6	1298.1	1170.6	1123.6	1104.5	1094.9	1105.4	1113.1
37.5°	2889.5	2899.1	2363.2	1585.7	1220.5	1110.2	1070.9	1048.8	1034.4	1043.1	1051.7
40°	3391.9	3398.7	2533.8	1484.1	1153.4	1074.7	1032.6	1012.4	992.3	976.9	976.0
42.5°	4051.5	3983.5	2701.6	1373.8	1075.6	1052.6	1005.7	980.8	950.1	907.9	899.3
45°	4833.9	4595.1	2829.2	1247.3	988.5	1025.8	976.0	941.4	893.5	847.5	842.7
47.5°	5735.0	5251.8	2891.5	1115.9	906.9	986.5	939.6	884.9	824.5	801.5	798.6
50°	6835.6	6031.2	2921.2	988.5	836.0	934.8	886.8	822.6	771.7	767.0	764.0
52.5°	8088.7	6968.9	2930.8	883.9	777.5	867.7	843.6	781.3	741.1	744.9	744.9
55°	9400.2	7937.2	2800.4	808.2	723.8	798.6	814.9	765.1	731.5	746.9	752.6
57.5°	10604.3	8795.2	2390.0	749.7	673.0	745.8	804.3	780.4	757.4	819.7	823.6
60°	11528.5	9302.4	1785.2	696.9	635.7	727.6	832.2	838.9	844.7	993.2	1013.3
62.5°	11722.2	9133.6	1227.1	655.7	618.4	743.0	883.0	883.9	877.2	980.8	993.2
65°	10833.5	8066.6	892.5	632.8	604.0	770.8	926.1	906.0	861.8	940.5	917.5
67.5°	8603.4	6077.2	743.0	615.5	582.9	768.8	972.1	926.1	853.2	921.3	883.9
70°	5584.5	3674.7	661.5	601.1	558.0	732.4	999.0	924.2	828.3	857.1	812.9
72.5°	2724.6	1643.3	606.8	580.0	532.0	681.6	998.0	906.9	802.4	800.6	776.5
75°	1066.1	752.6	557.0	548.4	487.9	624.1	971.2	882.0	771.7	741.1	732.4
77.5°	624.1	536.8	493.8	501.5	435.3	566.6	931.9	838.9	729.6	693.2	683.5
80°	454.4	401.7	420.8	433.3	371.9	509.1	879.1	786.1	682.6	700.8	687.4
82.5°	291.4	258.8	341.3	353.7	309.6	450.6	821.6	730.5	616.4	559.9	546.5
85°	148.6	164.0	254.1	269.4	238.8	370.1	751.7	656.7	541.7	466.0	473.6
87.5°	83.4	112.2	162.0	181.2	168.7	284.7	609.8	541.7	441.9	359.6	316.4
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)