

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: P194103

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194103
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-05-LED-E1-T4W-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 19477 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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

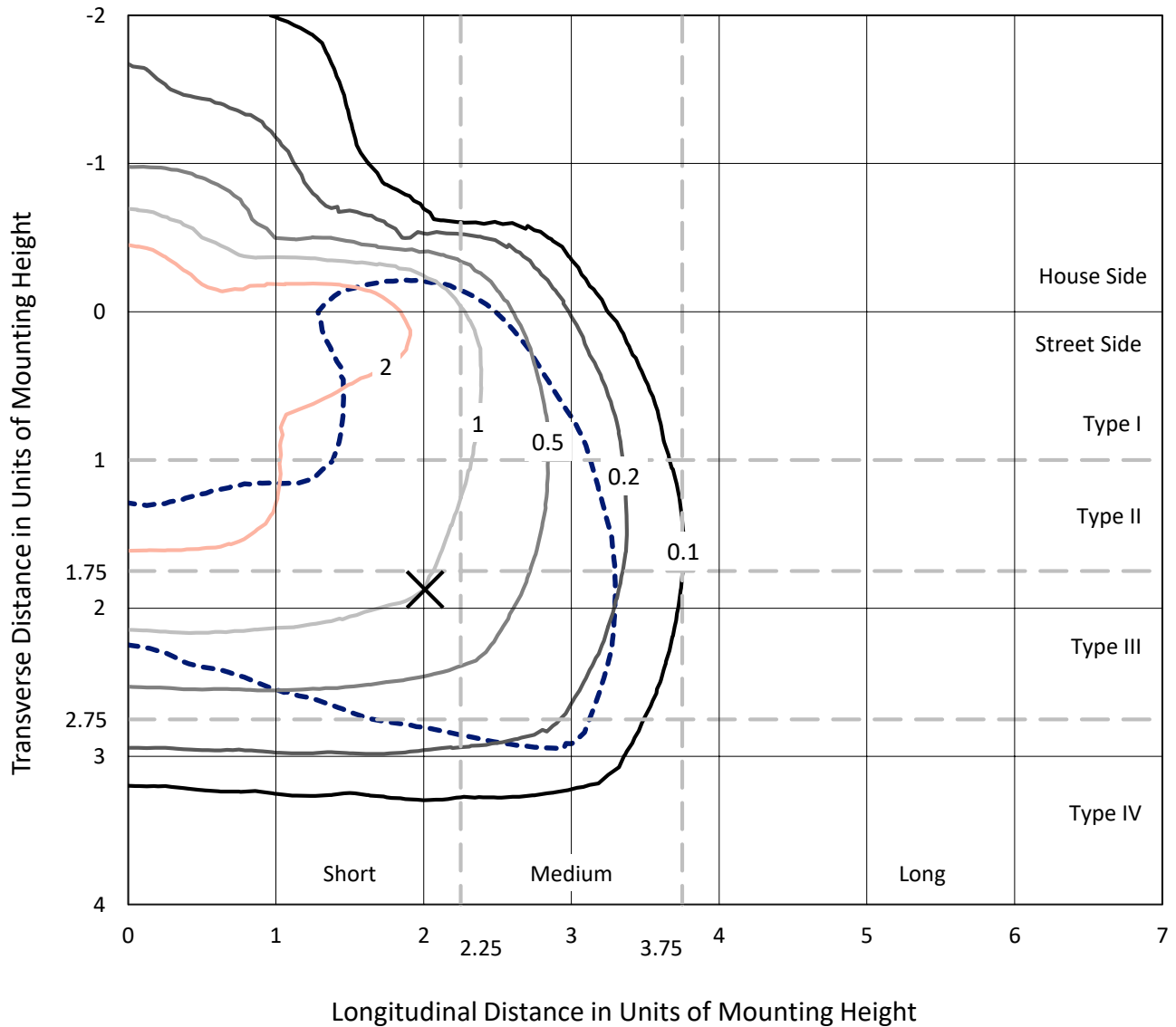


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

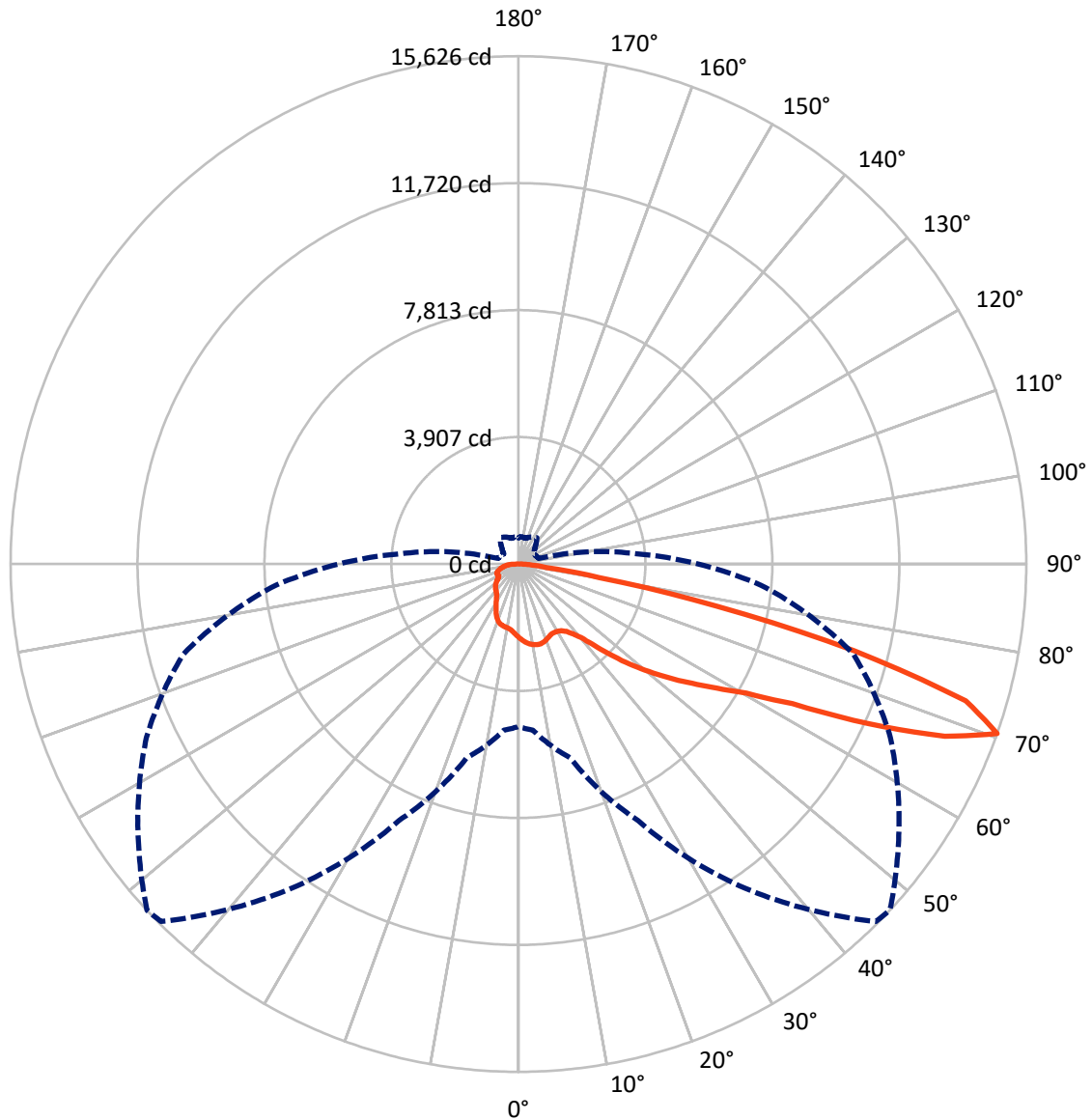


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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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	4063.3	0.0	4063.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15413.7	0.0	15413.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	19477.0	0.0	19477.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.1
10°-20°	635.3	3.3
20°-30°	938.1	4.8
30°-40°	1363.5	7.0
40°-50°	2453.9	12.6
50°-60°	4251.1	21.8
60°-70°	6067.6	31.2
70°-80°	3114.8	16.0
80°-90°	436.1	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°	19477.0	100.0
0°-180°	19477.0	100.0



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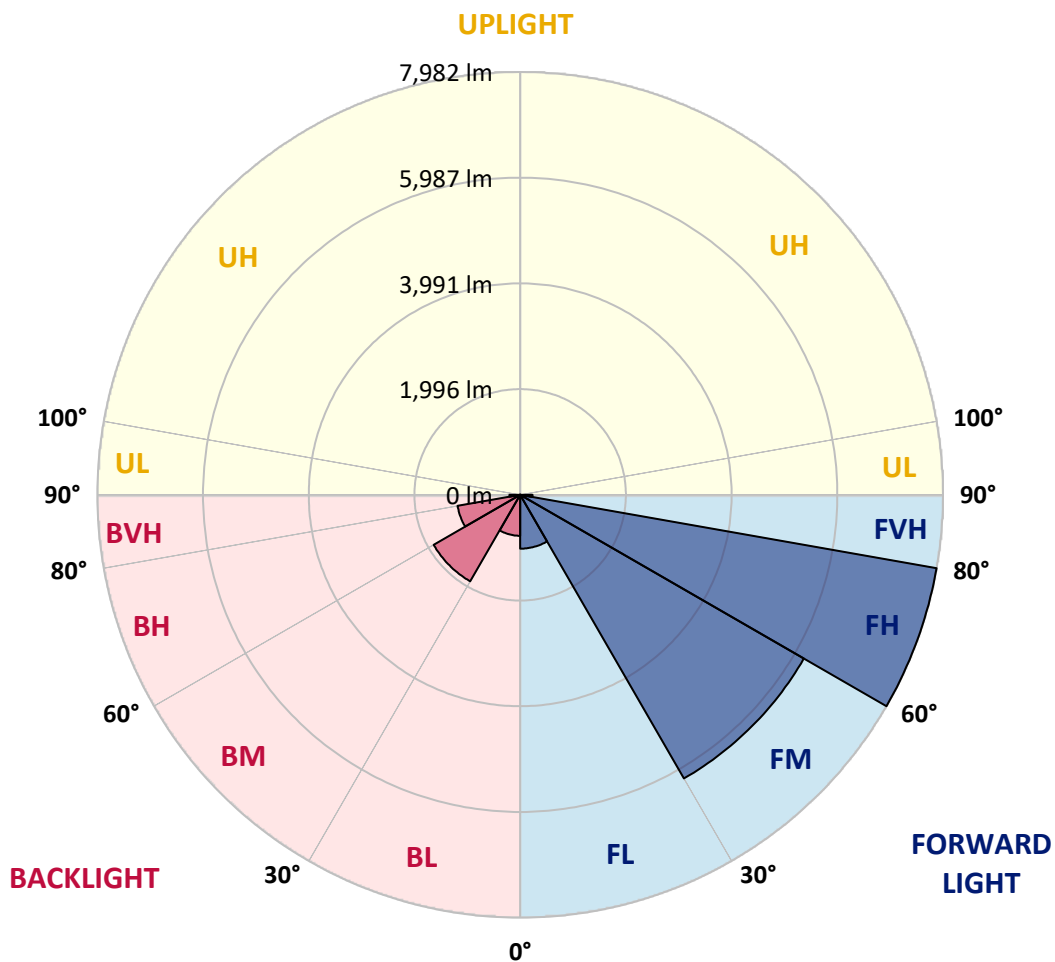
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.3	5.2			
FM	(30°-60°)	6182.5	31.7			
FH	(60°-80°)	7982.2	41.0			G4/12000
FVH	(80°-90°)	232.7	1.2			G3/500
BL	(0°-30°)	773.7	4.0	B2/1000		
BM	(30°-60°)	1886.1	9.7	B2/2500		
BH	(60°-80°)	1200.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	203.4	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°	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9
2.5°	2392.6	2387.9	2386.0	2382.2	2377.4	2353.7	2349.0	2332.0	2308.3	2283.6	2258.0
5°	2549.9	2548.9	2538.5	2519.6	2489.2	2437.1	2424.8	2383.1	2327.2	2273.2	2219.2
7.5°	2688.2	2679.7	2659.8	2621.9	2568.8	2497.8	2480.7	2422.9	2346.2	2272.3	2199.3
10°	2789.6	2784.9	2741.3	2689.2	2620.0	2541.4	2521.5	2457.0	2372.7	2278.9	2187.9
12.5°	2847.4	2838.0	2787.7	2725.2	2642.8	2566.0	2546.1	2480.7	2386.0	2278.9	2171.8
15°	2843.6	2837.0	2786.8	2718.6	2635.2	2567.9	2549.9	2484.5	2383.1	2269.4	2151.0
17.5°	2767.8	2770.7	2728.0	2660.8	2592.5	2541.4	2525.3	2464.6	2364.2	2250.5	2126.3
20°	2635.2	2648.4	2620.0	2560.3	2522.4	2487.4	2476.9	2425.8	2334.8	2223.0	2099.8
22.5°	2502.5	2514.8	2503.5	2453.2	2447.6	2426.7	2421.0	2384.1	2309.2	2205.9	2083.7
25°	2404.9	2416.3	2414.4	2370.8	2387.9	2386.9	2382.2	2364.2	2303.5	2205.9	2086.5
27.5°	2378.4	2382.2	2378.4	2338.6	2362.3	2381.2	2377.4	2374.6	2320.6	2233.4	2122.5
30°	2469.3	2463.7	2434.3	2353.7	2375.5	2402.1	2398.3	2400.2	2371.8	2305.4	2203.1
32.5°	2832.3	2806.7	2713.8	2487.4	2429.6	2443.8	2445.7	2476.9	2481.7	2416.3	2328.2
35°	3375.2	3346.8	3226.5	2845.5	2597.3	2548.0	2548.0	2595.4	2623.8	2575.5	2522.4
37.5°	3950.4	3919.1	3854.7	3342.1	2949.8	2729.0	2724.2	2757.4	2798.2	2809.5	2822.8
40°	4604.2	4571.0	4589.0	3899.2	3441.5	3042.6	2975.3	2951.7	3061.6	3134.5	3240.7
42.5°	5319.6	5304.5	5311.1	4519.9	4001.6	3511.7	3416.0	3293.7	3426.4	3556.2	3778.9
45°	5982.0	5995.2	5988.6	5184.1	4625.1	4084.0	3982.6	3745.7	3875.5	4098.2	4461.1
47.5°	6561.9	6506.9	6592.2	5910.0	5323.4	4724.6	4599.5	4282.0	4413.7	4688.5	5302.6
50°	7265.9	7258.3	7133.3	6878.4	6167.7	5367.9	5204.0	4836.4	5041.0	5422.9	6362.9
52.5°	8006.0	7868.6	7753.9	7631.7	7063.1	6027.4	5826.6	5388.8	5778.2	6258.7	7655.4
55°	8157.6	8096.0	8238.1	8443.7	7926.4	6712.5	6478.5	6081.5	6608.3	7213.8	9145.9
57.5°	8481.6	8480.7	8774.4	9141.1	8815.2	7439.3	7203.4	6918.2	7541.7	8308.2	10728.3
60°	8700.5	8762.1	9307.9	10019.5	9687.9	8278.9	8061.9	7883.7	8602.9	9531.5	12202.7
62.5°	8815.2	8898.6	9643.4	10375.8	10921.6	9676.5	9459.5	9202.7	10007.2	10873.3	13065.0
65°	8338.6	8502.5	9591.2	10683.8	12001.8	11942.1	11844.5	11393.5	11763.1	11933.6	12753.3
67.5°	7019.5	7187.3	8455.1	10396.7	12773.2	14127.2	14148.1	13377.7	12843.3	12024.6	10722.6
70°	5001.2	5133.0	6181.9	8716.6	12185.7	15555.2	15626.3	14292.1	12628.2	10663.9	7491.4
72.5°	2374.6	2455.1	3448.2	5673.1	9669.9	14252.3	14389.7	13124.7	10737.8	7895.1	4086.8
75°	872.7	897.3	1165.5	2413.4	5608.6	10510.4	10672.4	9408.4	7118.1	3930.5	1556.8
77.5°	523.1	539.2	653.8	1018.6	2205.9	6007.6	6247.3	5116.8	3110.9	1463.0	765.6
80°	365.8	377.1	469.0	633.9	1042.3	2289.3	2502.5	2088.4	1239.4	925.8	557.2
82.5°	247.3	253.0	329.8	428.3	692.7	817.7	882.2	928.6	835.8	688.9	353.4
85°	162.0	167.7	223.6	282.4	440.6	422.6	432.1	546.7	610.2	468.1	196.1
87.5°	92.9	96.7	134.6	150.7	216.0	179.1	181.0	288.1	390.4	315.5	119.4
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°	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9
2.5°	2251.4	2239.1	2211.6	2194.6	2178.4	2174.7	2168.0	2167.1	2166.1	2166.1	2163.3
5°	2201.2	2180.3	2137.7	2114.0	2094.1	2092.2	2091.3	2096.0	2097.9	2099.8	2097.0
7.5°	2169.0	2140.5	2087.5	2053.4	2029.7	2024.0	2033.5	2055.3	2069.5	2075.2	2072.3
10°	2149.1	2114.0	2052.4	2015.5	1995.6	1992.7	2005.0	2030.6	2060.0	2071.4	2070.4
12.5°	2126.3	2086.5	2021.2	1982.3	1970.9	1976.6	1992.7	2016.4	2046.7	2064.7	2065.7
15°	2103.6	2057.2	1989.9	1955.8	1951.0	1958.6	1973.8	1991.8	2015.5	2033.5	2035.4
17.5°	2076.1	2027.8	1960.5	1925.4	1921.7	1925.4	1926.4	1935.9	1951.0	1968.1	1972.8
20°	2046.7	1997.5	1927.3	1892.3	1875.2	1860.1	1843.0	1844.9	1849.6	1866.7	1870.5
22.5°	2025.9	1976.6	1901.8	1853.4	1808.0	1762.5	1728.4	1723.6	1725.5	1739.7	1744.5
25°	2027.8	1975.7	1895.1	1811.7	1712.2	1639.3	1593.8	1586.2	1585.3	1595.7	1602.3
27.5°	2064.7	2012.6	1919.8	1769.1	1608.0	1500.0	1451.7	1446.0	1438.4	1441.2	1448.8
30°	2147.2	2098.9	1979.5	1725.5	1495.3	1363.5	1313.3	1307.6	1297.2	1292.5	1298.2
32.5°	2281.7	2241.9	2066.6	1683.8	1382.5	1247.0	1195.8	1183.5	1176.9	1171.2	1175.9
35°	2505.4	2488.3	2183.2	1638.3	1283.0	1157.0	1110.5	1091.6	1082.1	1092.5	1100.1
37.5°	2856.0	2865.4	2335.7	1567.3	1206.2	1097.3	1058.4	1036.6	1022.4	1030.9	1039.5
40°	3352.5	3359.1	2504.4	1466.8	1139.9	1062.2	1020.5	1000.6	980.7	965.6	964.6
42.5°	4004.4	3937.1	2670.2	1357.9	1063.2	1040.4	994.0	969.4	939.0	897.3	888.8
45°	4777.6	4541.7	2796.3	1232.8	976.9	1013.9	964.6	930.5	883.1	837.6	832.9
47.5°	5668.3	5190.8	2857.9	1103.0	896.4	975.0	928.6	874.6	814.9	792.2	789.3
50°	6756.1	5961.1	2887.2	976.9	826.3	923.9	876.5	813.0	762.8	758.1	755.2
52.5°	7994.6	6887.8	2896.7	873.7	768.5	857.5	833.9	772.3	732.5	736.3	736.3
55°	9290.9	7844.9	2767.8	798.8	715.4	789.3	805.4	756.2	723.0	738.2	743.8
57.5°	10481.0	8692.9	2362.3	741.0	665.2	737.2	795.0	771.3	748.6	810.2	814.0
60°	11394.4	9194.2	1764.4	688.9	628.2	719.2	822.5	829.1	834.8	981.7	1001.6
62.5°	11585.9	9027.4	1212.9	648.1	611.2	734.4	872.7	873.7	867.0	969.4	981.7
65°	10707.5	7972.8	882.2	625.4	597.0	761.8	915.3	895.4	851.9	929.6	906.8
67.5°	8503.4	6006.6	734.4	608.3	576.1	759.9	960.8	915.3	843.3	910.6	873.7
70°	5519.6	3632.0	653.8	594.1	551.5	723.9	987.4	913.5	818.7	847.1	803.5
72.5°	2693.0	1624.1	599.8	573.3	525.9	673.7	986.4	896.4	793.1	791.2	767.5
75°	1053.7	743.8	550.5	542.0	482.3	616.9	959.9	871.8	762.8	732.5	723.9
77.5°	616.9	530.6	488.0	495.6	430.2	560.0	921.0	829.1	721.1	685.1	675.6
80°	449.1	397.0	416.0	428.3	367.7	503.2	868.9	777.0	674.7	692.7	679.4
82.5°	288.1	255.8	337.3	349.7	306.1	445.4	812.1	722.0	609.3	553.4	540.1
85°	146.9	162.0	251.1	266.3	235.9	365.8	742.9	649.1	535.4	460.5	468.1
87.5°	82.4	110.9	160.1	179.1	166.8	281.4	602.7	535.4	436.8	355.3	312.7
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)