

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: P191581

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191581
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-03-LED-E1-T4W-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20249.3 lumens
Efficiency: N/A
Efficacy: 106.0 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

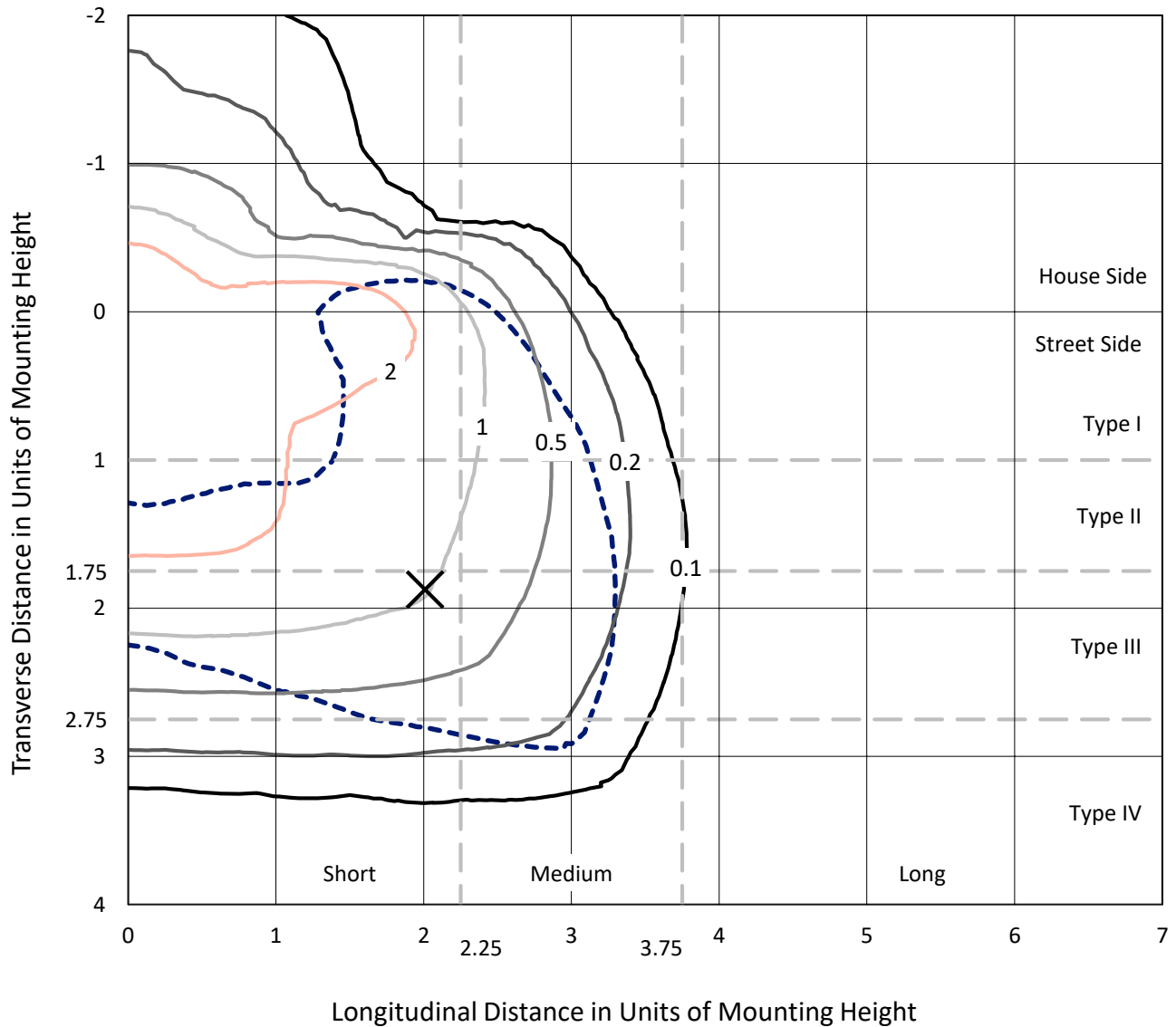
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

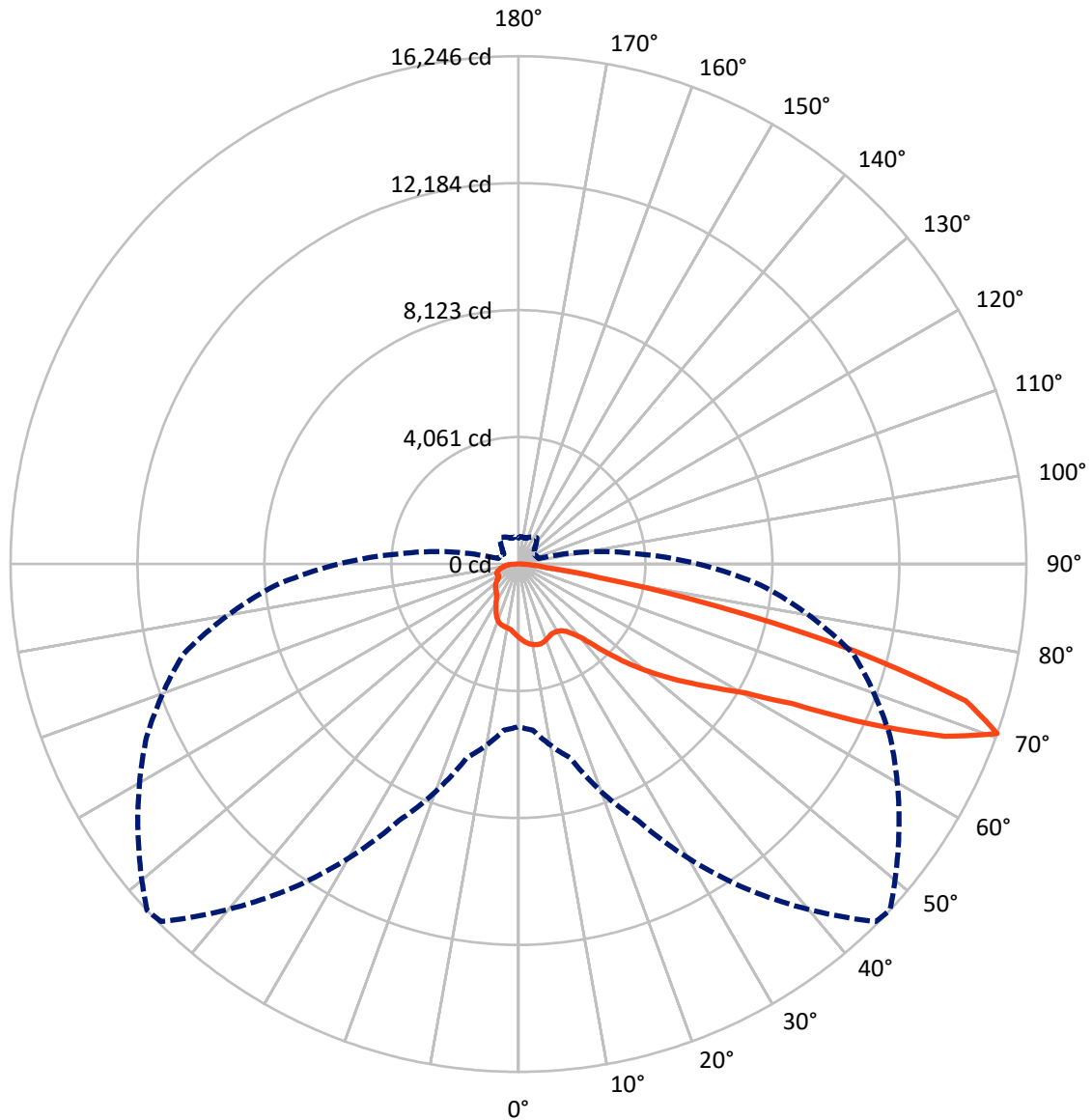
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4224.4	0.0	4224.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	16024.9	0.0	16024.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	20249.3	0.0	20249.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	1.1
10°-20°	660.5	3.3
20°-30°	975.3	4.8
30°-40°	1417.6	7.0
40°-50°	2551.2	12.6
50°-60°	4419.7	21.8
60°-70°	6308.2	31.2
70°-80°	3238.3	16.0
80°-90°	453.4	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°	20249.3	100.0
0°-180°	20249.3	100.0

Coefficient of Utilization



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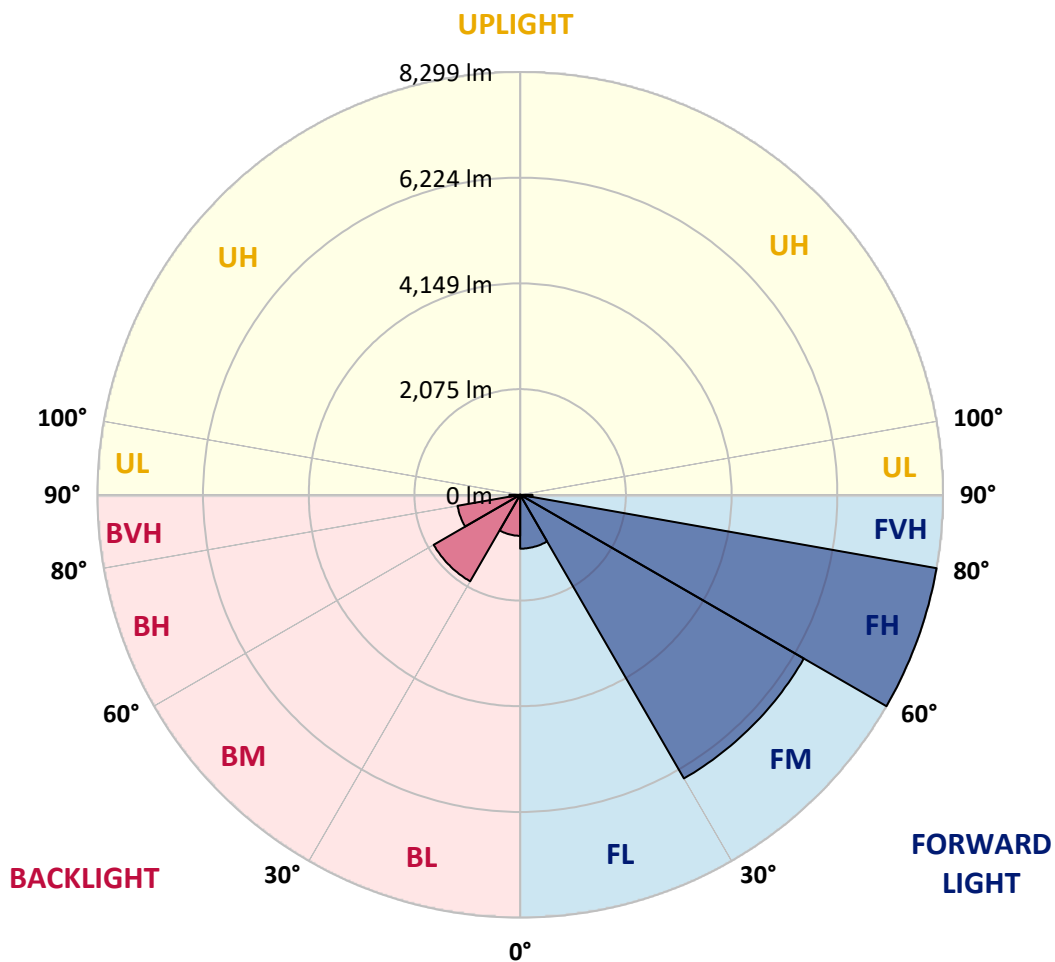
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.6	5.2			
FM	(30°-60°)	6427.7	31.7			
FH	(60°-80°)	8298.7	41.0			G4/12000
FVH	(80°-90°)	241.9	1.2			G3/500
BL	(0°-30°)	804.3	4.0	B2/1000		
BM	(30°-60°)	1960.8	9.7	B2/2500		
BH	(60°-80°)	1247.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	211.4	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°	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5
2.5°	2487.5	2482.5	2480.6	2476.7	2471.8	2447.1	2442.2	2424.4	2399.8	2374.2	2347.6
5°	2651.0	2650.1	2639.2	2619.5	2588.0	2533.7	2521.0	2477.6	2419.5	2363.3	2307.2
7.5°	2794.8	2786.0	2765.2	2725.9	2670.7	2596.9	2579.1	2519.0	2439.2	2362.4	2286.5
10°	2900.3	2895.4	2850.0	2795.8	2723.9	2642.2	2621.4	2554.4	2466.7	2369.3	2274.6
12.5°	2960.3	2950.5	2898.2	2833.3	2747.5	2667.8	2647.1	2579.1	2480.6	2369.3	2258.0
15°	2956.4	2949.5	2897.3	2826.3	2739.7	2669.7	2651.0	2583.1	2477.6	2359.4	2236.3
17.5°	2877.6	2880.5	2836.2	2766.3	2695.4	2642.2	2625.4	2562.4	2457.9	2339.7	2210.6
20°	2739.7	2753.5	2723.9	2661.8	2622.4	2586.0	2575.2	2522.0	2427.4	2311.2	2183.1
22.5°	2601.8	2614.6	2602.7	2550.5	2544.6	2522.9	2517.1	2478.6	2400.8	2293.4	2166.3
25°	2500.3	2512.1	2510.1	2464.8	2482.5	2481.6	2476.7	2457.9	2394.8	2293.4	2169.3
27.5°	2472.7	2476.7	2472.7	2431.3	2455.9	2475.6	2471.8	2468.8	2412.6	2322.0	2206.7
30°	2567.3	2561.4	2530.8	2447.1	2469.7	2497.3	2493.3	2495.4	2465.8	2396.9	2290.5
32.5°	2944.6	2918.0	2821.4	2586.0	2525.9	2540.7	2542.6	2575.2	2580.1	2512.1	2420.5
35°	3509.0	3479.5	3354.4	2958.4	2700.3	2649.0	2649.0	2698.3	2727.8	2677.6	2622.4
37.5°	4107.0	4074.5	4007.5	3474.6	3066.7	2837.2	2832.2	2866.7	2909.1	2920.9	2934.7
40°	4786.8	4752.3	4771.0	4053.9	3578.0	3163.3	3093.3	3068.8	3183.0	3258.8	3369.2
42.5°	5530.6	5514.8	5521.7	4699.1	4160.2	3650.9	3551.4	3424.3	3562.2	3697.3	3928.7
45°	6219.1	6232.9	6226.1	5389.7	4808.5	4246.0	4140.5	3894.3	4029.2	4260.7	4638.1
47.5°	6822.1	6765.0	6853.6	6144.3	5534.5	4911.9	4781.9	4451.9	4588.8	4874.5	5512.8
50°	7554.0	7546.1	7416.1	7151.1	6412.3	5580.8	5410.4	5028.1	5240.9	5637.9	6615.2
52.5°	8323.4	8180.5	8061.4	7934.3	7343.3	6266.5	6057.6	5602.5	6007.4	6506.8	7959.0
55°	8481.1	8417.0	8564.8	8778.6	8240.7	6978.7	6735.4	6322.7	6870.3	7499.9	9508.5
57.5°	8817.9	8817.0	9122.4	9503.6	9164.7	7734.3	7489.0	7192.5	7840.7	8637.7	11153.7
60°	9045.5	9109.6	9677.0	10416.8	10072.1	8607.1	8381.5	8196.3	8944.1	9909.5	12686.6
62.5°	9164.7	9251.5	10025.7	10787.2	11354.7	10060.2	9834.6	9567.7	10404.0	11304.4	13583.0
65°	8669.2	8839.6	9971.5	11107.4	12477.7	12415.7	12314.2	11845.3	12229.5	12406.9	13259.0
67.5°	7297.9	7472.2	8790.4	10808.9	13279.6	14687.4	14709.1	13908.1	13352.6	12501.4	11147.8
70°	5199.6	5336.5	6427.0	9062.3	12668.8	16172.0	16245.9	14858.8	13129.0	11086.7	7788.4
72.5°	2468.8	2552.5	3584.9	5898.0	10053.4	14817.4	14960.2	13645.1	11163.6	8208.2	4248.9
75°	907.4	932.9	1211.7	2509.1	5831.0	10927.2	11095.6	9781.5	7400.3	4086.4	1618.6
77.5°	543.8	560.6	679.8	1059.1	2293.4	6245.7	6495.0	5319.8	3234.2	1521.0	796.0
80°	380.2	392.1	487.6	659.1	1083.6	2380.1	2601.8	2171.2	1288.5	962.5	579.3
82.5°	257.2	263.0	342.8	445.3	720.2	850.2	917.2	965.5	868.9	716.2	367.4
85°	168.5	174.4	232.5	293.6	458.1	439.4	449.2	568.5	634.4	486.6	203.9
87.5°	96.6	100.5	139.9	156.6	224.6	186.2	188.1	299.5	405.9	328.1	124.1
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°	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5	2349.5
2.5°	2340.7	2327.8	2299.3	2281.6	2264.8	2260.9	2254.0	2253.0	2252.0	2252.0	2249.1
5°	2288.4	2266.8	2222.5	2197.8	2177.1	2175.2	2174.2	2179.1	2181.1	2183.1	2180.1
7.5°	2255.0	2225.4	2170.3	2134.8	2110.1	2104.2	2114.1	2136.7	2151.6	2157.4	2154.5
10°	2234.3	2197.8	2133.8	2095.4	2074.6	2071.8	2084.6	2111.2	2141.6	2153.5	2152.5
12.5°	2210.6	2169.3	2101.3	2060.9	2049.1	2055.0	2071.8	2096.3	2127.9	2146.7	2147.6
15°	2187.0	2138.7	2068.8	2033.3	2028.4	2036.3	2052.0	2070.8	2095.4	2114.1	2116.1
17.5°	2158.4	2108.2	2038.2	2001.8	1997.8	2001.8	2002.7	2012.7	2028.4	2046.1	2051.0
20°	2127.9	2076.7	2003.8	1967.3	1949.5	1933.8	1916.1	1918.0	1922.9	1940.7	1944.6
22.5°	2106.3	2055.0	1977.2	1926.9	1879.7	1832.3	1796.9	1792.0	1793.9	1808.7	1813.6
25°	2108.2	2054.0	1970.3	1883.6	1780.1	1704.2	1657.0	1649.1	1648.2	1658.9	1665.9
27.5°	2146.7	2092.4	1995.9	1839.3	1671.8	1559.5	1509.3	1503.3	1495.5	1498.4	1506.3
30°	2232.3	2182.1	2058.0	1793.9	1554.6	1417.6	1365.4	1359.5	1348.7	1343.7	1349.7
32.5°	2372.2	2330.8	2148.6	1750.6	1437.3	1296.5	1243.2	1230.4	1223.6	1217.6	1222.5
35°	2604.7	2586.9	2269.7	1703.3	1333.8	1202.9	1154.6	1134.9	1125.0	1135.9	1143.8
37.5°	2969.2	2979.0	2428.4	1629.5	1254.0	1140.8	1100.4	1077.8	1062.9	1071.8	1080.6
40°	3485.4	3492.4	2603.7	1525.0	1185.1	1104.4	1061.0	1040.3	1019.6	1003.8	1002.9
42.5°	4163.2	4093.2	2776.1	1411.7	1105.3	1081.7	1033.4	1007.8	976.3	932.9	924.0
45°	4967.0	4721.7	2907.1	1281.7	1015.7	1054.0	1002.9	967.4	918.1	870.8	865.9
47.5°	5893.1	5396.6	2971.2	1146.7	931.9	1013.7	965.5	909.3	847.2	823.6	820.6
50°	7024.0	6197.4	3001.7	1015.7	859.1	960.6	911.2	845.3	793.0	788.1	785.1
52.5°	8311.6	7161.0	3011.6	908.3	798.9	891.5	867.0	802.9	761.5	765.5	765.5
55°	9659.2	8156.0	2877.6	830.4	743.8	820.6	837.4	786.1	751.7	767.4	773.4
57.5°	10896.6	9037.7	2455.9	770.4	691.5	766.4	826.5	801.9	778.3	842.3	846.2
60°	11846.3	9558.8	1834.4	716.2	653.2	747.7	855.1	862.0	867.9	1020.6	1041.3
62.5°	12045.2	9385.4	1261.0	673.8	635.5	763.5	907.4	908.3	901.4	1007.8	1020.6
65°	11132.1	8289.0	917.2	650.2	620.6	792.1	951.7	931.0	885.7	966.4	942.8
67.5°	8840.6	6244.8	763.5	632.5	598.9	790.1	998.9	951.7	876.8	946.7	908.3
70°	5738.4	3776.0	679.8	617.7	573.4	752.7	1026.5	949.7	851.2	880.8	835.4
72.5°	2799.7	1688.5	623.6	596.0	546.8	700.4	1025.5	931.9	824.6	822.6	798.0
75°	1095.5	773.4	572.3	563.5	501.5	641.3	998.0	906.3	793.0	761.5	752.7
77.5°	641.3	551.7	507.4	515.3	447.2	582.3	957.6	862.0	749.7	712.3	702.4
80°	467.0	412.8	432.5	445.3	382.3	523.1	903.4	807.8	701.4	720.2	706.3
82.5°	299.5	266.0	350.7	363.6	318.2	463.0	844.2	750.6	633.4	575.3	561.5
85°	152.7	168.5	261.1	276.8	245.3	380.2	772.3	674.8	556.6	478.7	486.6
87.5°	85.7	115.3	166.5	186.2	173.4	292.6	626.6	556.6	454.2	369.4	325.1
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)