

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: P194094

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194094
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-06-LED-E1-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19006 lumens
Efficiency: N/A
Efficacy: 98.5 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): 193
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

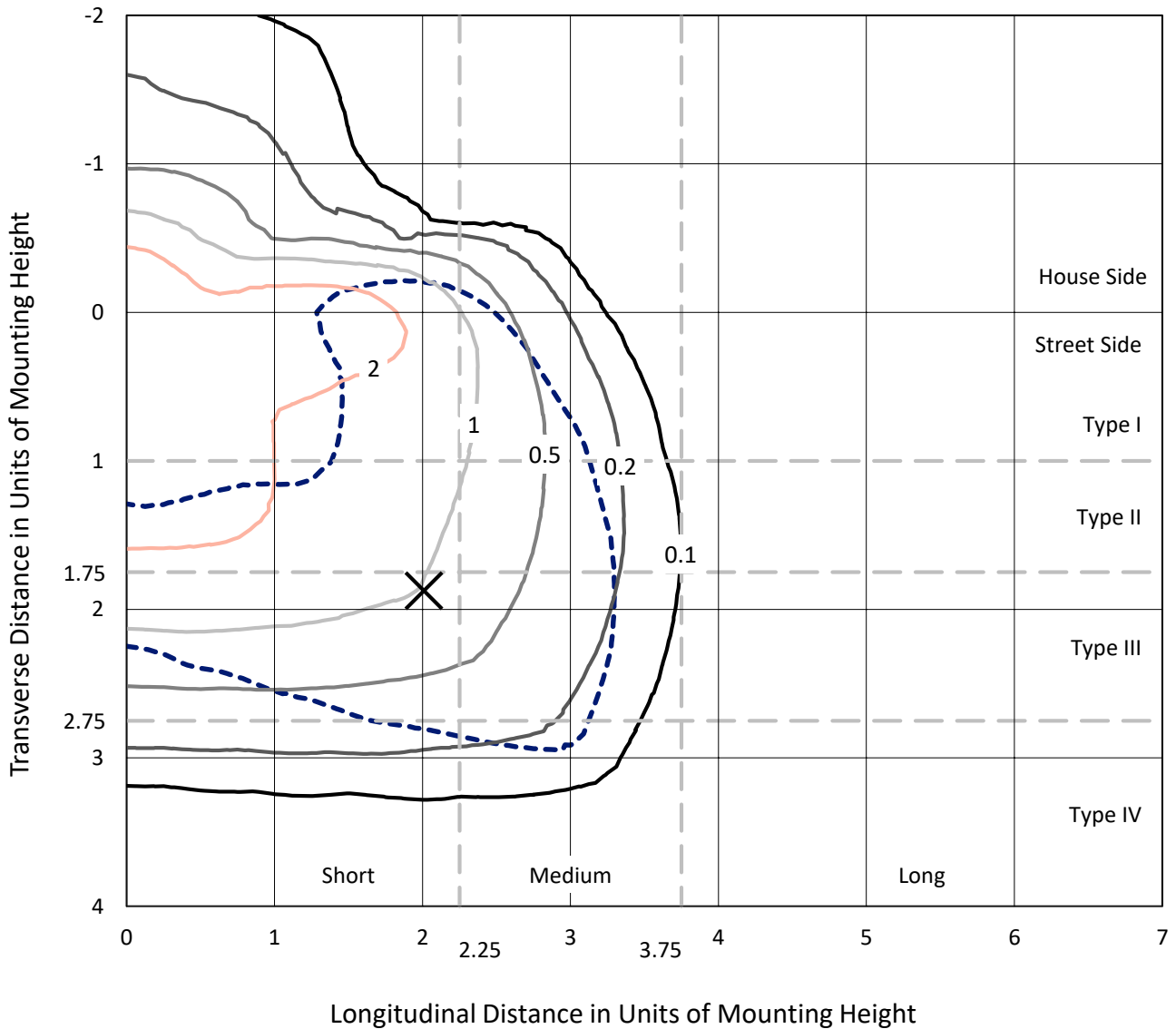


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

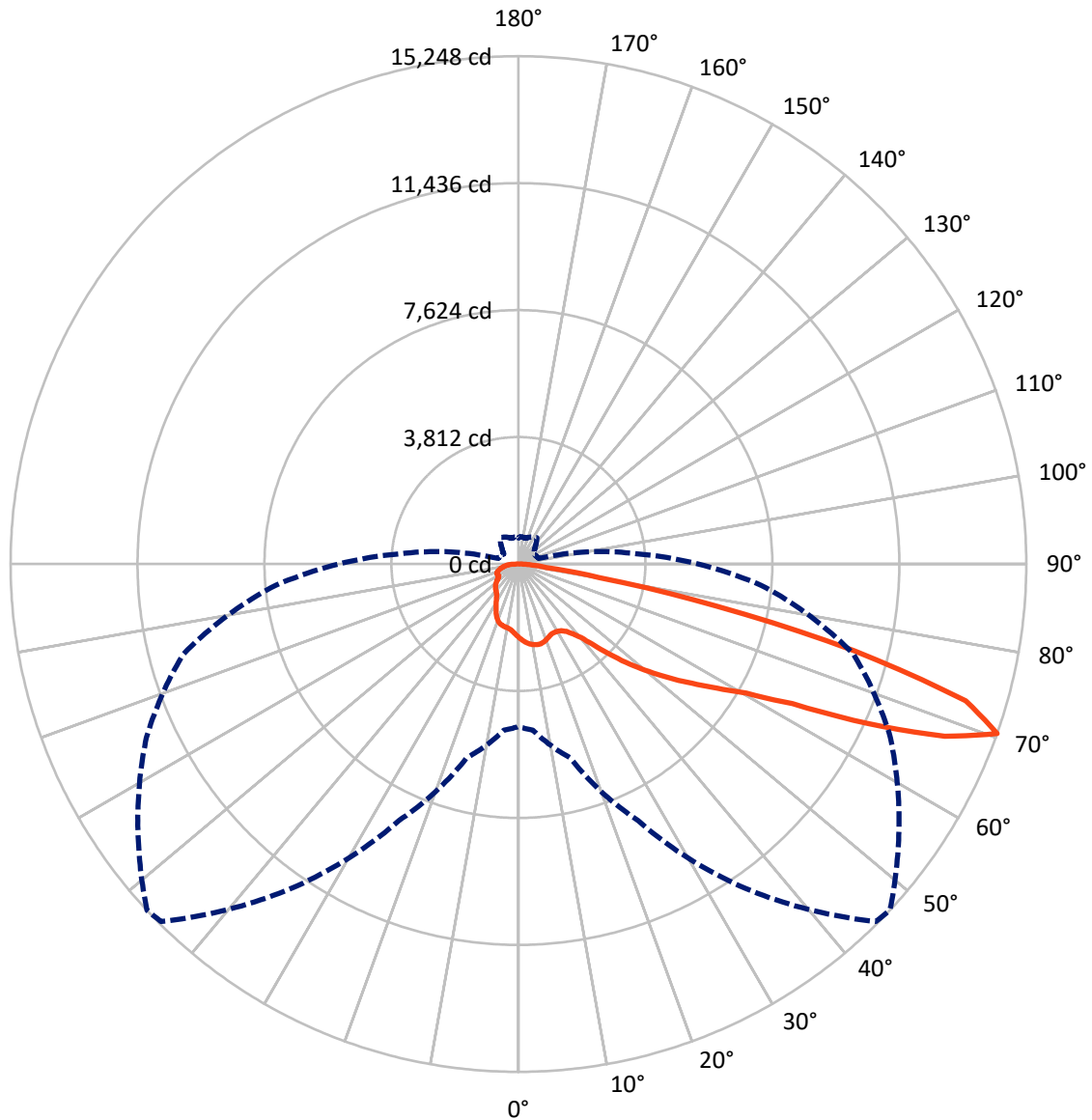


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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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	3965.0	0.0	3965.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15041.0	0.0	15041.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	19006.0	0.0	19006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	1.1
10°-20°	619.9	3.3
20°-30°	915.4	4.8
30°-40°	1330.6	7.0
40°-50°	2394.6	12.6
50°-60°	4148.3	21.8
60°-70°	5920.9	31.2
70°-80°	3039.5	16.0
80°-90°	425.5	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°	19006.0	100.0
0°-180°	19006.0	100.0



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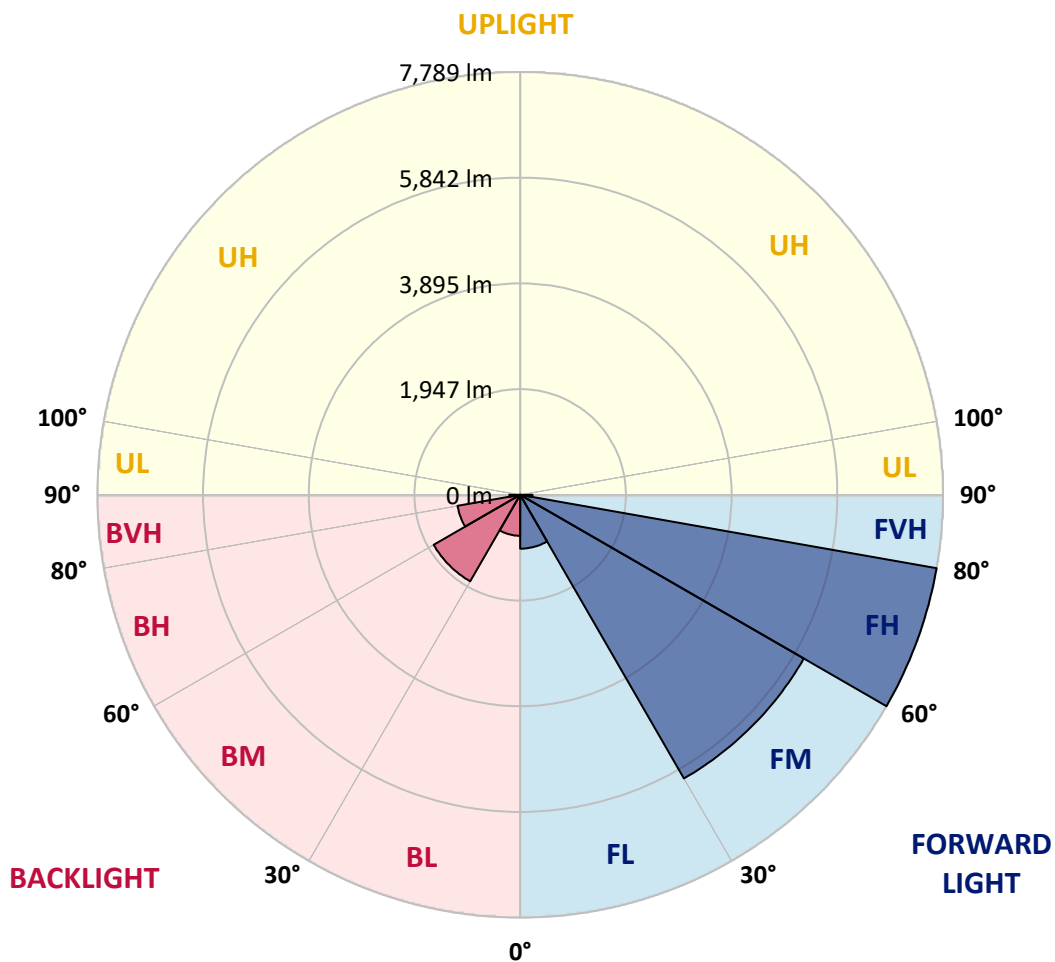
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.7	5.2			
FM	(30°-60°)	6033.0	31.7			
FH	(60°-80°)	7789.2	41.0			G4/12000
FVH	(80°-90°)	227.1	1.2			G3/500
BL	(0°-30°)	755.0	4.0	B2/1000		
BM	(30°-60°)	1840.4	9.7	B2/2500		
BH	(60°-80°)	1171.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	198.5	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°	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3
2.5°	2334.7	2330.1	2328.3	2324.6	2319.9	2296.8	2292.2	2275.6	2252.4	2228.4	2203.4
5°	2488.2	2487.3	2477.1	2458.6	2429.1	2378.2	2366.2	2325.5	2270.9	2218.2	2165.5
7.5°	2623.2	2614.9	2595.5	2558.5	2506.7	2437.4	2420.7	2364.3	2289.4	2217.3	2146.1
10°	2722.2	2717.5	2675.0	2624.2	2556.7	2479.9	2460.5	2397.6	2315.3	2223.8	2135.0
12.5°	2778.6	2769.3	2720.3	2659.3	2578.8	2503.9	2484.5	2420.7	2328.3	2223.8	2119.3
15°	2774.9	2768.4	2719.4	2652.8	2571.4	2505.8	2488.2	2424.4	2325.5	2214.5	2099.0
17.5°	2700.9	2703.7	2662.1	2596.4	2529.8	2479.9	2464.2	2405.0	2307.0	2196.0	2074.9
20°	2571.4	2584.4	2556.7	2498.4	2461.4	2427.2	2417.0	2367.1	2278.3	2169.2	2049.0
22.5°	2442.0	2454.0	2442.9	2393.9	2388.4	2368.0	2362.5	2326.4	2253.4	2152.6	2033.3
25°	2346.8	2357.9	2356.0	2313.5	2330.1	2329.2	2324.6	2307.0	2247.8	2152.6	2036.1
27.5°	2320.9	2324.6	2320.9	2282.0	2305.1	2323.6	2319.9	2317.2	2264.5	2179.4	2071.2
30°	2409.6	2404.1	2375.4	2296.8	2318.1	2344.0	2340.3	2342.1	2314.4	2249.7	2149.8
32.5°	2763.8	2738.8	2648.2	2427.2	2370.8	2384.7	2386.5	2417.0	2421.7	2357.9	2271.9
35°	3293.6	3265.9	3148.4	2776.7	2534.5	2486.4	2486.4	2532.6	2560.4	2513.2	2461.4
37.5°	3854.9	3824.3	3761.5	3261.2	2878.4	2663.0	2658.4	2690.7	2730.5	2741.6	2754.5
40°	4492.9	4460.5	4478.1	3804.9	3358.3	2969.0	2903.4	2880.3	2987.5	3058.7	3162.3
42.5°	5191.0	5176.2	5182.7	4410.6	3904.8	3426.7	3333.4	3214.1	3343.5	3470.2	3687.5
45°	5837.3	5850.3	5843.8	5058.8	4513.2	3985.2	3886.3	3655.1	3781.8	3999.1	4353.2
47.5°	6403.2	6349.6	6432.8	5767.0	5194.7	4610.3	4488.2	4178.5	4307.0	4575.2	5174.3
50°	7090.2	7082.8	6960.8	6712.0	6018.5	5238.1	5078.2	4719.4	4919.1	5291.8	6209.0
52.5°	7812.4	7678.3	7566.4	7447.1	6892.3	5881.7	5685.7	5258.5	5638.5	6107.3	7470.2
55°	7960.3	7900.2	8038.9	8239.5	7734.7	6550.2	6321.8	5934.4	6448.5	7039.4	8924.7
57.5°	8276.5	8275.6	8562.2	8920.1	8602.0	7259.4	7029.2	6750.9	7359.3	8107.3	10468.9
60°	8490.1	8550.2	9082.8	9777.2	9453.6	8078.7	7866.9	7693.1	8394.9	9301.0	11907.6
62.5°	8602.0	8683.4	9410.2	10124.9	10657.5	9442.5	9230.8	8980.2	9765.2	10610.3	12749.1
65°	8136.9	8296.9	9359.3	10425.4	11711.6	11653.4	11558.1	11118.0	11478.6	11645.0	12444.8
67.5°	6849.8	7013.5	8250.6	10145.2	12464.3	13785.6	13805.9	13054.2	12532.7	11733.8	10463.3
70°	4880.3	5008.8	6032.4	8505.8	11891.0	15179.0	15248.4	13946.5	12322.8	10406.0	7310.3
72.5°	2317.2	2395.8	3364.8	5535.9	9436.0	13907.6	14041.7	12807.3	10478.1	7704.2	3988.0
75°	851.6	875.6	1137.3	2355.1	5473.0	10256.2	10414.3	9180.8	6946.0	3835.4	1519.2
77.5°	510.4	526.1	638.0	994.0	2152.6	5862.3	6096.2	4993.1	3035.6	1427.7	747.1
80°	356.9	368.0	457.7	618.6	1017.1	2234.0	2442.0	2037.9	1209.4	903.4	543.7
82.5°	241.3	246.9	321.8	417.9	675.9	798.0	860.8	906.2	815.5	672.2	344.9
85°	158.1	163.7	218.2	275.5	430.0	412.4	421.6	533.5	595.5	456.8	191.4
87.5°	90.6	94.3	131.3	147.0	210.8	174.8	176.6	281.1	381.0	307.9	116.5
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°	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3	2205.3
2.5°	2197.0	2184.9	2158.1	2141.5	2125.8	2122.1	2115.6	2114.7	2113.7	2113.7	2111.0
5°	2148.0	2127.6	2086.0	2062.9	2043.5	2041.6	2040.7	2045.3	2047.2	2049.0	2046.2
7.5°	2116.5	2088.8	2037.0	2003.7	1980.6	1975.1	1984.3	2005.6	2019.4	2025.0	2022.2
10°	2097.1	2062.9	2002.8	1966.7	1947.3	1944.5	1956.6	1981.5	2010.2	2021.3	2020.4
12.5°	2074.9	2036.1	1972.3	1934.4	1923.3	1928.8	1944.5	1967.7	1997.2	2014.8	2015.7
15°	2052.7	2007.4	1941.8	1908.5	1903.9	1911.2	1926.0	1943.6	1966.7	1984.3	1986.1
17.5°	2025.9	1978.7	1913.1	1878.9	1875.2	1878.9	1879.8	1889.1	1903.9	1920.5	1925.1
20°	1997.2	1949.2	1880.7	1846.5	1829.9	1815.1	1798.4	1800.3	1804.9	1821.6	1825.3
22.5°	1976.9	1928.8	1855.8	1808.6	1764.2	1719.8	1686.6	1681.9	1683.8	1697.7	1702.3
25°	1978.7	1927.9	1849.3	1767.9	1670.8	1599.6	1555.3	1547.9	1546.9	1557.1	1563.6
27.5°	2014.8	1964.0	1873.3	1726.3	1569.1	1463.7	1416.6	1411.0	1403.6	1406.4	1413.8
30°	2095.3	2048.1	1931.6	1683.8	1459.1	1330.6	1281.6	1276.0	1265.8	1261.2	1266.8
32.5°	2226.6	2187.7	2016.7	1643.1	1349.1	1216.8	1166.9	1154.9	1148.4	1142.9	1147.5
35°	2444.8	2428.1	2130.4	1598.7	1252.0	1129.0	1083.7	1065.2	1055.9	1066.1	1073.5
37.5°	2786.9	2796.1	2279.3	1529.4	1177.1	1070.7	1032.8	1011.6	997.7	1006.0	1014.3
40°	3271.4	3277.9	2443.8	1431.4	1112.4	1036.5	995.8	976.4	957.0	942.2	941.3
42.5°	3907.6	3841.9	2605.7	1325.0	1037.5	1015.3	970.0	945.9	916.3	875.6	867.3
45°	4662.1	4431.8	2728.6	1203.0	953.3	989.4	941.3	908.0	861.8	817.4	812.8
47.5°	5531.2	5065.2	2788.7	1076.3	874.7	951.5	906.2	853.5	795.2	773.0	770.2
50°	6592.7	5817.0	2817.4	953.3	806.3	901.5	855.3	793.3	744.3	739.7	736.9
52.5°	7801.3	6721.3	2826.7	852.5	749.9	836.8	813.7	753.6	714.8	718.5	718.5
55°	9066.2	7655.2	2700.9	779.5	698.1	770.2	786.0	737.9	705.5	720.3	725.8
57.5°	10227.5	8482.7	2305.1	723.1	649.1	719.4	775.8	752.7	730.5	790.6	794.3
60°	11118.9	8971.9	1721.7	672.2	613.0	701.8	802.6	809.1	814.6	957.9	977.4
62.5°	11305.7	8809.1	1183.6	632.5	596.4	716.6	851.6	852.5	846.1	945.9	957.9
65°	10448.5	7780.0	860.8	610.3	582.5	743.4	893.2	873.8	831.3	907.1	884.9
67.5°	8297.8	5861.3	716.6	593.6	562.2	741.6	937.6	893.2	822.9	888.6	852.5
70°	5386.1	3544.2	638.0	579.8	538.1	706.4	963.5	891.4	798.9	826.6	784.1
72.5°	2627.9	1584.8	585.3	559.4	513.2	657.4	962.6	874.7	773.9	772.1	749.0
75°	1028.2	725.8	537.2	528.9	470.6	601.9	936.7	850.7	744.3	714.8	706.4
77.5°	601.9	517.8	476.2	483.6	419.8	546.5	898.8	809.1	703.7	668.5	659.3
80°	438.3	387.4	405.9	417.9	358.8	491.0	847.9	758.2	658.4	675.9	663.0
82.5°	281.1	249.7	329.2	341.2	298.7	434.6	792.4	704.6	594.5	540.0	527.0
85°	143.3	158.1	245.0	259.8	230.2	356.9	724.9	633.4	522.4	449.4	456.8
87.5°	80.4	108.2	156.3	174.8	162.7	274.6	588.1	522.4	426.3	346.7	305.1
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)