

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: P194921

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194921
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-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 19795 lumens
Efficiency: N/A
Efficacy: 103.6 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

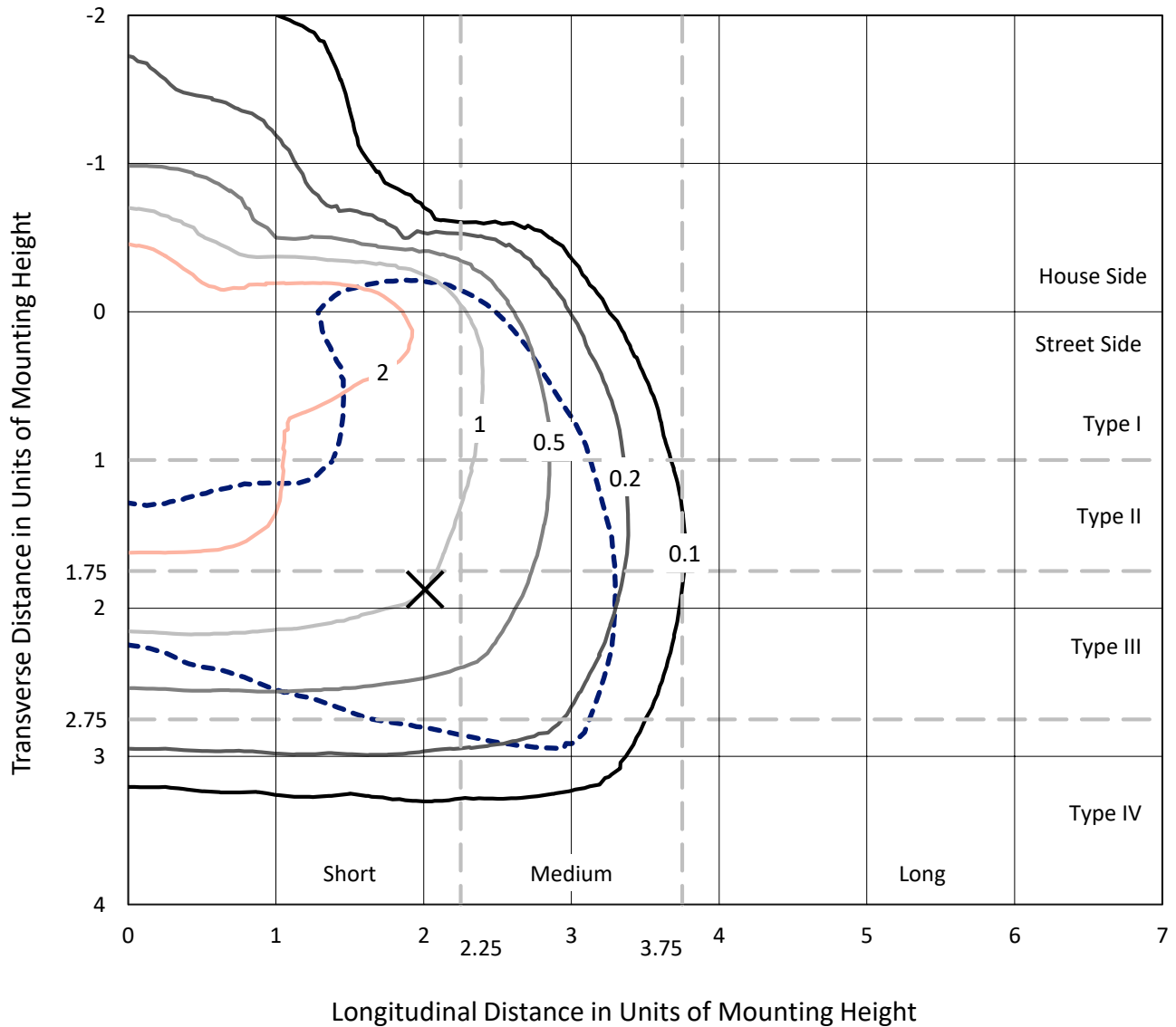


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

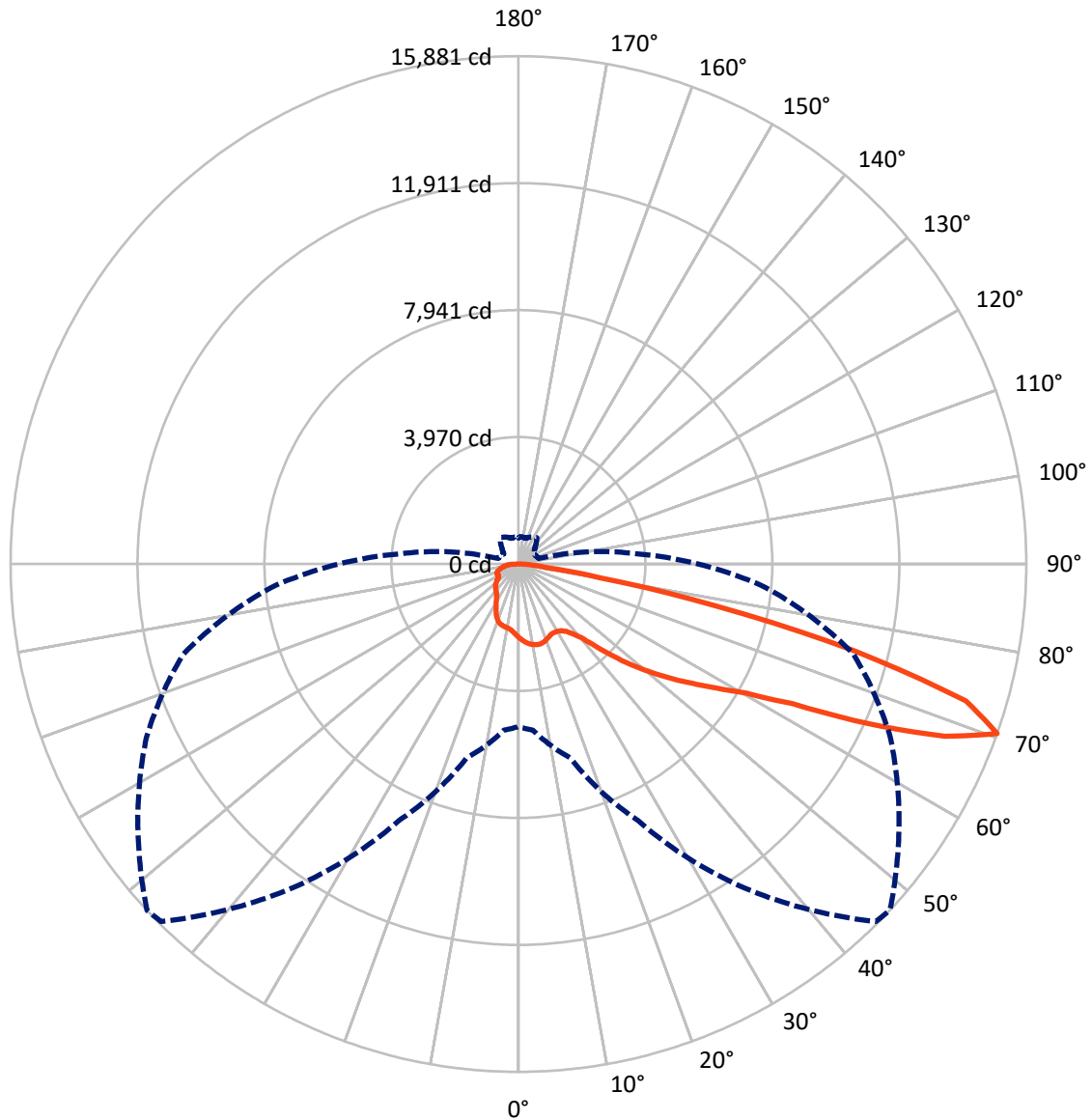


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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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	4129.6	0.0	4129.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	15665.4	0.0	15665.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	19795.0	0.0	19795.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	1.1
10°-20°	645.6	3.3
20°-30°	953.4	4.8
30°-40°	1385.8	7.0
40°-50°	2494.0	12.6
50°-60°	4320.5	21.8
60°-70°	6166.7	31.2
70°-80°	3165.6	16.0
80°-90°	443.2	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°	19795.0	100.0
0°-180°	19795.0	100.0



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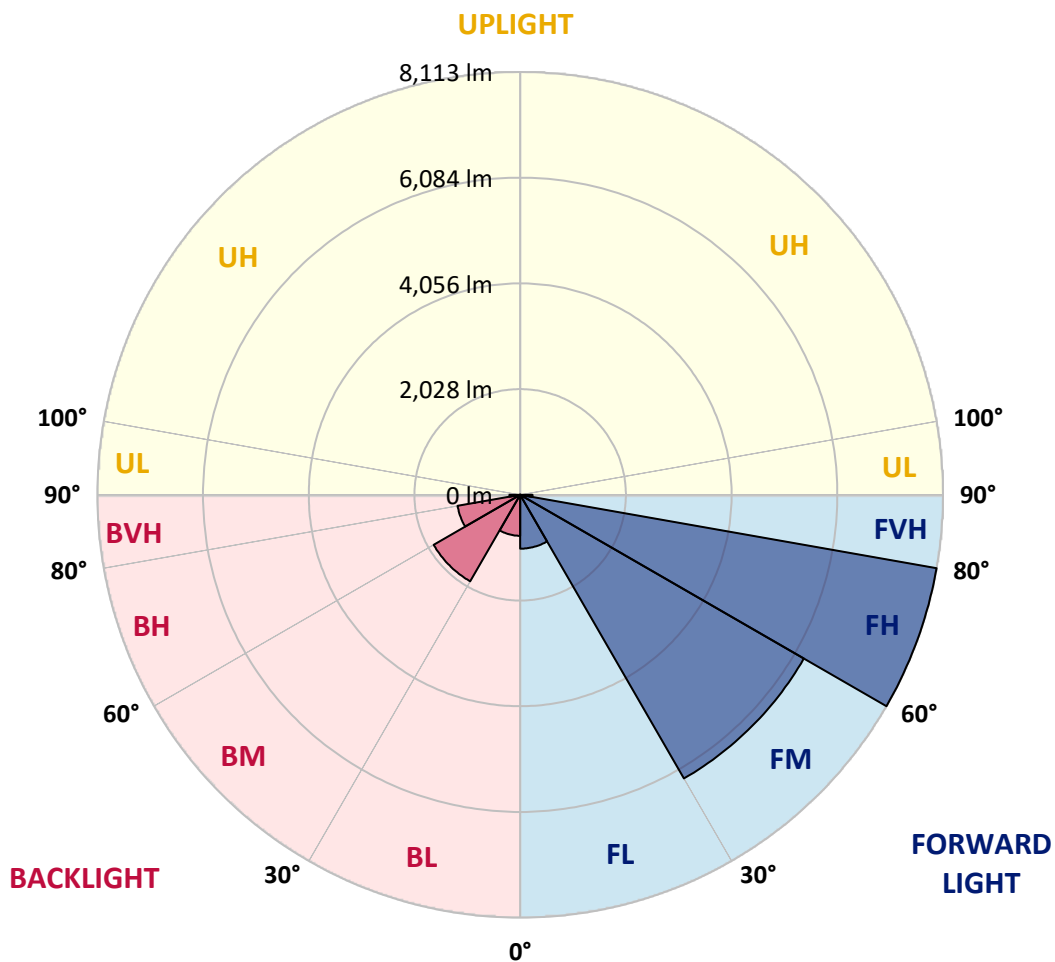
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1032.9	5.2			
FM	(30°-60°)	6283.5	31.7			
FH	(60°-80°)	8112.5	41.0			G4/12000
FVH	(80°-90°)	236.5	1.2			G3/500
BL	(0°-30°)	786.3	4.0	B2/1000		
BM	(30°-60°)	1916.8	9.7	B2/2500		
BH	(60°-80°)	1219.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	206.7	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°	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8
2.5°	2431.7	2426.8	2424.9	2421.1	2416.3	2392.2	2387.4	2370.0	2346.0	2320.9	2294.9
5°	2591.5	2590.6	2580.0	2560.7	2529.9	2476.9	2464.4	2422.0	2365.2	2310.3	2255.4
7.5°	2732.1	2723.5	2703.2	2664.7	2610.8	2538.6	2521.2	2462.5	2384.5	2309.4	2235.2
10°	2835.2	2830.4	2786.1	2733.1	2662.8	2582.9	2562.6	2497.1	2411.4	2316.1	2223.6
12.5°	2893.9	2884.3	2833.2	2769.7	2685.9	2607.9	2587.7	2521.2	2424.9	2316.1	2207.3
15°	2890.1	2883.3	2832.3	2762.9	2678.2	2609.8	2591.5	2525.1	2422.0	2306.5	2186.1
17.5°	2813.0	2815.9	2772.6	2704.2	2634.9	2582.9	2566.5	2504.9	2402.8	2287.2	2161.0
20°	2678.2	2691.7	2662.8	2602.1	2563.6	2528.0	2517.4	2465.4	2372.9	2259.3	2134.1
22.5°	2543.4	2555.9	2544.3	2493.3	2487.5	2466.3	2460.6	2423.0	2346.9	2241.9	2117.7
25°	2444.2	2455.7	2453.8	2409.5	2426.8	2425.9	2421.1	2402.8	2341.1	2241.9	2120.6
27.5°	2417.2	2421.1	2417.2	2376.8	2400.8	2420.1	2416.3	2413.4	2358.5	2269.9	2157.2
30°	2509.7	2503.9	2474.0	2392.2	2414.3	2441.3	2437.4	2439.4	2410.5	2343.1	2239.1
32.5°	2878.5	2852.5	2758.1	2528.0	2469.2	2483.7	2485.6	2517.4	2522.2	2455.7	2366.2
35°	3430.3	3401.4	3279.1	2892.0	2639.7	2589.6	2589.6	2637.8	2666.6	2617.5	2563.6
37.5°	4014.9	3983.1	3917.6	3396.6	2997.9	2773.5	2768.7	2802.4	2843.8	2855.4	2868.9
40°	4679.4	4645.7	4664.0	3962.9	3497.7	3092.3	3023.9	2999.9	3111.6	3185.7	3293.6
42.5°	5406.5	5391.1	5397.8	4593.7	4066.9	3569.0	3471.7	3347.5	3482.3	3614.3	3840.6
45°	6079.6	6093.1	6086.4	5268.8	4700.6	4150.7	4047.6	3806.9	3938.8	4165.1	4534.0
47.5°	6669.0	6613.2	6699.8	6006.4	5410.3	4801.7	4674.6	4352.0	4485.8	4765.1	5389.1
50°	7384.5	7376.8	7249.7	6990.7	6268.4	5455.6	5289.0	4915.3	5123.3	5511.4	6466.8
52.5°	8136.7	7997.0	7880.5	7756.3	7178.5	6125.9	5921.7	5476.8	5872.6	6360.8	7780.4
55°	8290.8	8228.2	8372.6	8581.6	8055.8	6822.1	6584.3	6180.8	6716.2	7331.6	9295.2
57.5°	8620.1	8619.2	8917.7	9290.4	8959.1	7560.8	7321.0	7031.1	7664.8	8443.9	10903.5
60°	8842.6	8905.2	9459.9	10183.1	9846.1	8414.0	8193.5	8012.4	8743.4	9687.2	12402.0
62.5°	8959.1	9043.9	9800.8	10545.2	11099.9	9834.5	9614.0	9353.0	10170.6	11050.8	13278.3
65°	8474.7	8641.3	9747.8	10858.2	12197.8	12137.1	12037.9	11579.5	11955.1	12128.5	12961.5
67.5°	7134.2	7304.6	8593.2	10566.4	12981.7	14357.9	14379.1	13596.1	13053.0	12220.9	10897.7
70°	5082.9	5216.8	6282.8	8859.0	12384.6	15809.2	15881.4	14525.4	12834.4	10838.0	7613.7
72.5°	2413.4	2495.2	3504.5	5765.7	9827.8	14485.0	14624.6	13339.0	10913.1	8024.0	4153.6
75°	887.0	912.0	1184.5	2452.8	5700.2	10682.0	10846.7	9562.0	7234.3	3994.7	1582.3
77.5°	531.6	548.0	664.5	1035.3	2241.9	6105.6	6349.3	5200.4	3161.6	1486.9	778.1
80°	371.7	383.3	476.7	644.3	1059.3	2326.7	2543.4	2122.5	1259.6	940.9	566.3
82.5°	251.4	257.1	335.1	435.3	704.0	831.1	896.6	943.8	849.4	700.1	359.2
85°	164.7	170.5	227.3	287.0	447.8	429.5	439.1	555.7	620.2	475.7	199.3
87.5°	94.4	98.2	136.8	153.1	219.6	182.0	183.9	292.8	396.8	320.7	121.3
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°	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8	2296.8
2.5°	2288.2	2275.6	2247.7	2230.4	2214.0	2210.2	2203.4	2202.5	2201.5	2201.5	2198.6
5°	2237.1	2215.9	2172.6	2148.5	2128.3	2126.4	2125.4	2130.2	2132.2	2134.1	2131.2
7.5°	2204.4	2175.5	2121.6	2086.9	2062.8	2057.0	2066.7	2088.8	2103.3	2109.0	2106.2
10°	2184.2	2148.5	2085.9	2048.4	2028.1	2025.3	2037.8	2063.8	2093.6	2105.2	2104.2
12.5°	2161.0	2120.6	2054.2	2014.7	2003.1	2008.9	2025.3	2049.3	2080.2	2098.5	2099.4
15°	2137.9	2090.7	2022.4	1987.7	1982.9	1990.6	2006.0	2024.3	2048.4	2066.7	2068.6
17.5°	2110.0	2060.9	1992.5	1956.9	1953.0	1956.9	1957.8	1967.5	1982.9	2000.2	2005.0
20°	2080.2	2030.1	1958.8	1923.2	1905.8	1890.4	1873.1	1875.0	1879.8	1897.2	1901.0
22.5°	2059.0	2008.9	1932.8	1883.7	1837.5	1791.2	1756.6	1751.8	1753.7	1768.1	1772.9
25°	2060.9	2007.9	1926.1	1841.3	1740.2	1666.0	1619.8	1612.1	1611.2	1621.7	1628.5
27.5°	2098.5	2045.5	1951.1	1798.0	1634.3	1524.5	1475.4	1469.6	1461.9	1464.8	1472.5
30°	2182.2	2133.1	2011.8	1753.7	1519.7	1385.8	1334.8	1329.0	1318.4	1313.6	1319.4
32.5°	2319.0	2278.5	2100.4	1711.3	1405.1	1267.4	1215.3	1202.8	1196.1	1190.3	1195.1
35°	2546.3	2528.9	2218.8	1665.1	1303.9	1175.9	1128.7	1109.4	1099.8	1110.4	1118.1
37.5°	2902.6	2912.2	2373.9	1592.9	1225.9	1115.2	1075.7	1053.6	1039.1	1047.8	1056.4
40°	3407.2	3414.0	2545.3	1490.8	1158.5	1079.6	1037.2	1017.0	996.7	981.3	980.4
42.5°	4069.8	4001.4	2713.8	1380.0	1080.5	1057.4	1010.2	985.2	954.4	912.0	903.3
45°	4855.6	4615.8	2841.9	1252.9	992.9	1030.4	980.4	945.7	897.5	851.3	846.5
47.5°	5760.9	5275.5	2904.5	1121.0	911.0	991.0	943.8	888.9	828.2	805.1	802.2
50°	6866.4	6058.4	2934.4	992.9	839.8	939.0	890.8	826.3	775.2	770.4	767.5
52.5°	8125.1	7000.3	2944.0	887.9	781.0	871.5	847.5	784.9	744.4	748.3	748.3
55°	9442.5	7973.0	2813.0	811.8	727.1	802.2	818.6	768.5	734.8	750.2	756.0
57.5°	10652.1	8834.9	2400.8	753.1	676.0	749.2	808.0	783.9	760.8	823.4	827.2
60°	11580.5	9344.3	1793.2	700.1	638.5	730.9	835.9	842.7	848.4	997.7	1017.9
62.5°	11775.0	9174.8	1232.7	658.7	621.2	746.4	887.0	887.9	881.2	985.2	997.7
65°	10882.3	8103.0	896.6	635.6	606.7	774.3	930.3	910.1	865.8	944.7	921.6
67.5°	8642.3	6104.7	746.4	618.3	585.5	772.4	976.5	930.3	857.1	925.5	887.9
70°	5609.7	3691.3	664.5	603.8	560.5	735.8	1003.5	928.4	832.1	861.0	816.7
72.5°	2736.9	1650.6	609.6	582.6	534.5	684.7	1002.5	911.0	806.1	804.1	780.1
75°	1070.9	756.0	559.5	550.9	490.2	626.9	975.6	886.0	775.2	744.4	735.8
77.5°	626.9	539.3	496.0	503.7	437.2	569.2	936.1	842.7	732.9	696.3	686.6
80°	456.5	403.5	422.8	435.3	373.7	511.4	883.1	789.7	685.7	704.0	690.5
82.5°	292.8	260.0	342.8	355.4	311.1	452.6	825.3	733.8	619.2	562.4	548.9
85°	149.3	164.7	255.2	270.6	239.8	371.7	755.0	659.7	544.1	468.0	475.7
87.5°	83.8	112.7	162.8	182.0	169.5	286.0	612.5	544.1	444.0	361.1	317.8
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)