

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: P941038

Luminaire Tested: **GALN-SB4B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16344 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

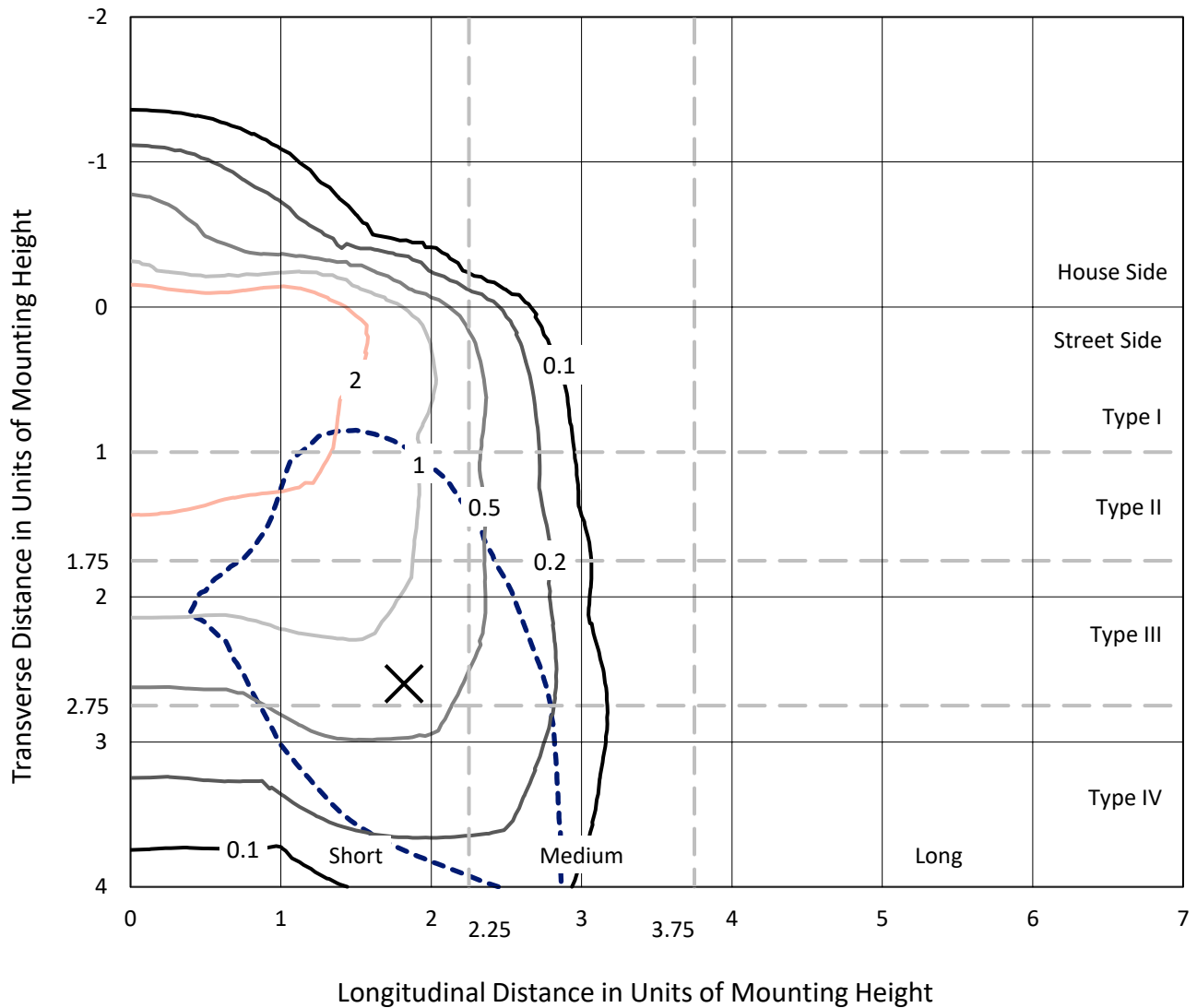
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941038
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Iso-Footcandle Lines of Horizontal Illumination

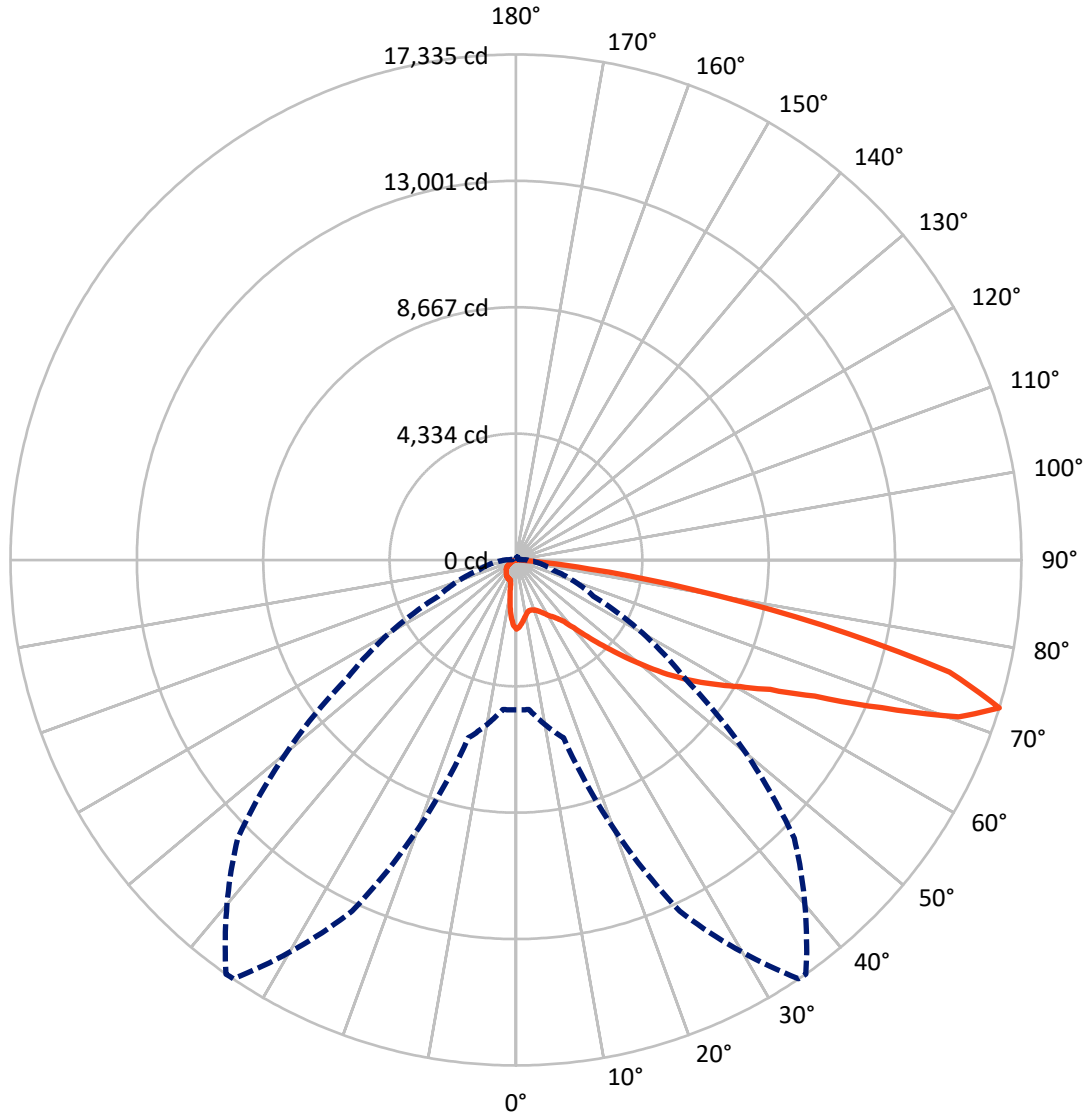
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P941038
CATALOG NUMBER: GALN-SB4B-850-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.4	0.0	1839.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14504.6	0.0	14504.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	16344.0	0.0	16344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.2
10°-20°	455.4	2.8
20°-30°	739.7	4.5
30°-40°	1234.2	7.6
40°-50°	2335.2	14.3
50°-60°	3710.6	22.7
60°-70°	4590.3	28.1
70°-80°	2853.3	17.5
80°-90°	230.6	1.4
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°	16344.0	100.0
0°-180°	16344.0	100.0

Coefficient of Utilization



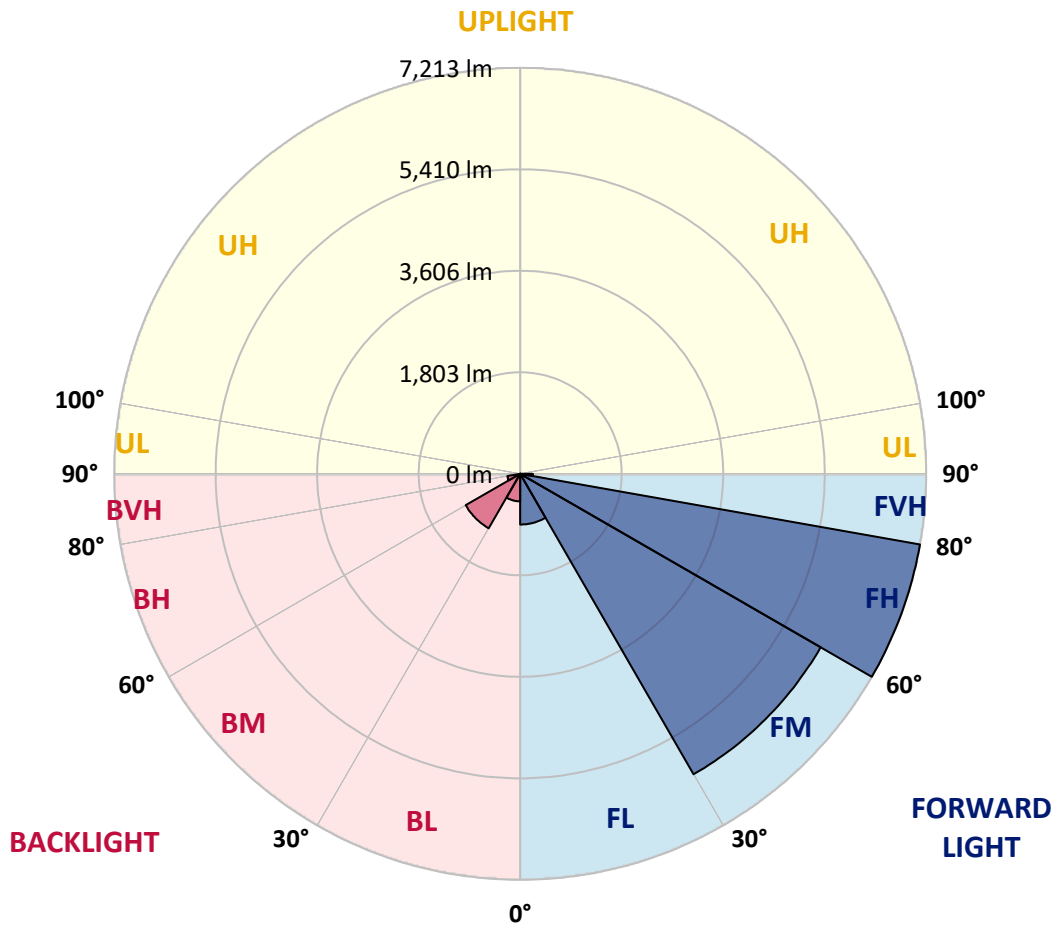
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.0	5.5			
FM (30°-60°)	6163.3	37.7			
FH (60°-80°)	7212.8	44.1			G3/7500
FVH (80°-90°)	227.5	1.4			G3/500
BL (0°-30°)	488.8	3.0	B1/500		
BM (30°-60°)	1116.7	6.8	B2/2500		
BH (60°-80°)	230.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P941038
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8
2.5°	2263.4	2282.6	2286.2	2292.1	2292.1	2299.3	2311.3	2328.1	2355.6	2370.0
5°	2086.2	2100.5	2118.5	2132.9	2160.4	2164.0	2210.7	2256.2	2319.7	2367.6
7.5°	1907.7	1924.5	1948.4	1983.2	2019.1	2029.9	2100.5	2177.2	2277.8	2367.6
10°	1782.0	1783.2	1804.7	1839.5	1897.0	1910.1	1996.3	2105.3	2231.1	2353.2
12.5°	1711.3	1719.7	1729.3	1755.6	1810.7	1819.1	1911.3	2039.5	2184.4	2344.8
15°	1711.3	1717.3	1723.3	1736.5	1780.8	1788.0	1869.4	1997.5	2160.4	2348.4
17.5°	1729.3	1738.9	1734.1	1749.6	1796.4	1801.1	1873.0	1985.6	2159.2	2371.2
20°	1772.4	1779.6	1770.0	1779.6	1826.3	1835.9	1910.1	2008.3	2179.6	2410.7
22.5°	1840.7	1844.3	1821.5	1828.7	1876.6	1888.6	1974.8	2073.0	2228.7	2474.2
25°	1926.9	1934.1	1899.3	1907.7	1953.2	1967.6	2067.0	2170.0	2306.5	2561.6
27.5°	2026.3	2029.9	1999.9	1998.7	2057.4	2077.8	2178.4	2289.8	2410.7	2671.8
30°	2140.1	2150.8	2122.1	2117.3	2191.6	2208.3	2307.7	2437.1	2564.0	2837.0
32.5°	2229.9	2238.3	2221.5	2233.5	2308.9	2322.1	2464.6	2645.4	2804.7	3071.8
35°	2359.2	2364.0	2325.7	2347.2	2433.5	2467.0	2679.0	2937.6	3107.7	3366.4
37.5°	2827.5	2827.5	2664.6	2558.0	2640.6	2670.6	2972.4	3305.3	3481.3	3761.6
40°	3475.3	3464.6	3226.3	3008.3	2997.5	3056.2	3390.3	3768.8	3964.0	4235.8
42.5°	4166.3	4149.6	3825.0	3609.5	3573.5	3593.9	3872.9	4340.0	4538.8	4814.2
45°	4779.5	4774.7	4477.7	4187.9	4123.2	4187.9	4475.3	5008.2	5150.7	5440.6
47.5°	5293.3	5293.3	5076.5	4887.3	4853.8	4892.1	5290.9	5749.5	5736.4	6107.6
50°	5884.9	5880.1	5674.1	5592.7	5627.4	5681.3	6229.8	6530.3	6342.3	6762.7
52.5°	6299.2	6328.0	6257.3	6244.1	6421.4	6514.8	7183.0	7294.4	6884.8	7384.2
55°	6627.4	6660.9	6742.3	6834.5	7175.8	7298.0	8106.4	8018.9	7338.7	7923.1
57.5°	7092.0	7044.1	7169.9	7351.9	7904.0	8051.3	9000.9	8702.7	7704.0	8360.2
60°	7656.1	7663.3	7684.8	7914.7	8630.9	8820.1	9882.3	9349.4	7938.7	8628.5
62.5°	8333.9	8344.7	8389.0	8742.3	9606.9	9785.3	10821.2	9878.8	8046.5	8553.0
65°	8287.2	8332.7	8827.3	10035.6	11090.7	11266.7	11917.0	10250.0	7883.6	7863.2
67.5°	7549.5	7623.7	8451.3	11580.5	13327.8	13524.2	13241.5	10323.1	7180.6	6114.8
70°	6581.8	6608.2	7603.4	12969.7	15918.1	16116.9	14427.1	9519.5	5448.9	3410.7
72.5°	5140.0	5146.0	6313.6	13291.8	17324.0	17334.8	13496.6	7066.9	2930.5	1310.1
75°	3671.7	3635.8	4228.6	10779.3	15241.5	15363.6	10118.3	3314.9	1119.7	619.1
77.5°	1968.8	2008.3	2392.7	6392.6	10529.0	10737.4	5520.8	955.7	570.0	421.5
80°	608.4	641.9	980.8	2926.9	5963.9	6089.6	2046.6	425.1	397.6	300.6
82.5°	191.6	198.8	457.5	1229.9	2475.4	2532.9	592.8	240.7	271.8	198.8
85°	55.1	56.3	203.6	458.7	612.0	623.9	166.5	93.4	155.7	123.3
87.5°	6.0	19.2	76.6	76.6	53.9	52.7	18.0	20.4	44.3	15.6
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2368.8	0°	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8
2379.6	2.5°	2373.6	2374.8	2359.2	2332.9	2304.1	2280.2	2250.2	2226.3	2209.5	2204.7
2401.1	5°	2390.3	2382.0	2337.7	2257.4	2161.6	2079.0	1986.8	1913.7	1865.8	1845.5
2423.9	7.5°	2415.5	2391.5	2294.5	2136.5	1953.2	1790.4	1625.1	1497.0	1415.5	1374.8
2445.4	10°	2437.1	2389.2	2222.7	1961.6	1681.4	1434.7	1211.9	1057.5	971.2	930.5
2470.6	12.5°	2457.4	2388.0	2129.3	1754.4	1374.8	1073.0	865.8	789.2	765.2	756.9
2511.3	15°	2495.7	2391.5	2011.9	1517.3	1069.4	810.8	735.3	734.1	738.9	736.5
2573.6	17.5°	2548.4	2395.1	1879.0	1265.8	825.1	714.9	711.4	722.1	729.3	725.7
2651.4	20°	2616.7	2409.5	1737.7	1016.7	709.0	691.0	699.4	709.0	714.9	709.0
2755.6	22.5°	2712.5	2434.7	1583.2	816.7	671.8	676.6	683.8	694.6	700.6	692.2
2888.5	25°	2829.9	2474.2	1431.1	710.2	653.9	659.9	670.6	682.6	689.8	681.4
3056.2	27.5°	2981.9	2537.7	1291.0	686.2	635.9	639.5	655.1	673.0	682.6	671.8
3294.5	30°	3202.3	2641.8	1170.0	697.0	625.1	616.7	638.3	663.5	674.2	664.7
3619.1	32.5°	3494.5	2789.1	1095.8	713.8	620.3	590.4	610.8	643.1	661.1	655.1
4043.0	35°	3877.7	3013.1	1067.0	732.9	616.7	562.9	577.2	612.0	643.1	649.1
4577.1	37.5°	4342.4	3324.5	1075.4	741.3	606.0	540.1	547.3	577.2	617.9	637.1
5178.3	40°	4870.5	3687.3	1123.3	732.9	594.0	520.9	522.1	544.9	580.8	609.6
5825.0	42.5°	5415.4	4111.3	1211.9	701.8	583.2	504.2	500.6	516.2	540.1	560.5
6470.5	45°	5934.0	4547.2	1299.4	658.7	570.0	487.4	479.0	485.0	489.8	498.2
7099.2	47.5°	6386.6	4853.8	1274.2	619.1	552.1	468.2	453.9	451.5	437.1	435.9
7660.9	50°	6699.2	4920.8	1131.7	579.6	525.7	446.7	423.9	409.6	384.4	372.4
8081.2	52.5°	6798.6	4656.2	924.5	540.1	482.6	418.0	385.6	362.9	331.7	320.9
8323.1	55°	6666.9	4137.6	738.9	492.2	422.7	379.6	343.7	313.8	288.6	275.4
8349.5	57.5°	6344.7	3477.7	584.4	435.9	359.3	336.5	300.6	270.7	249.1	235.9
8057.3	60°	5810.6	2761.6	462.3	368.9	306.6	289.8	252.7	233.5	214.4	198.8
7302.8	62.5°	4999.9	1971.2	362.9	292.2	256.3	237.1	215.6	201.2	178.4	156.9
5945.9	65°	3901.7	1206.0	280.2	214.4	206.0	196.4	183.2	170.1	142.5	121.0
3878.9	67.5°	2461.0	571.2	200.0	161.7	162.9	158.1	152.1	141.3	121.0	101.8
1737.7	70°	1083.8	276.6	131.7	123.3	121.0	121.0	125.7	122.2	103.0	85.0
603.6	72.5°	368.9	148.5	98.2	93.4	87.4	86.2	105.4	101.8	82.6	65.9
300.6	75°	192.8	99.4	71.9	67.1	52.7	63.5	83.8	79.0	58.7	43.1
198.8	77.5°	125.7	70.7	49.1	43.1	29.9	41.9	62.3	55.1	34.7	21.6
130.5	80°	79.0	46.7	28.7	20.4	14.4	22.8	33.5	24.0	13.2	4.8
76.6	82.5°	41.9	24.0	10.8	7.2	6.0	7.2	8.4	6.0	2.4	0.0
39.5	85°	16.8	8.4	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0
7.2	87.5°	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2368.8
2213.1
1852.6
1380.8
931.7
754.5
735.3
724.5
707.8
691.0
680.2
671.8
663.5
655.1
649.1
641.9
619.1
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434.7
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