

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: P949549

Luminaire Tested: **GALN-SB4B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17247 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

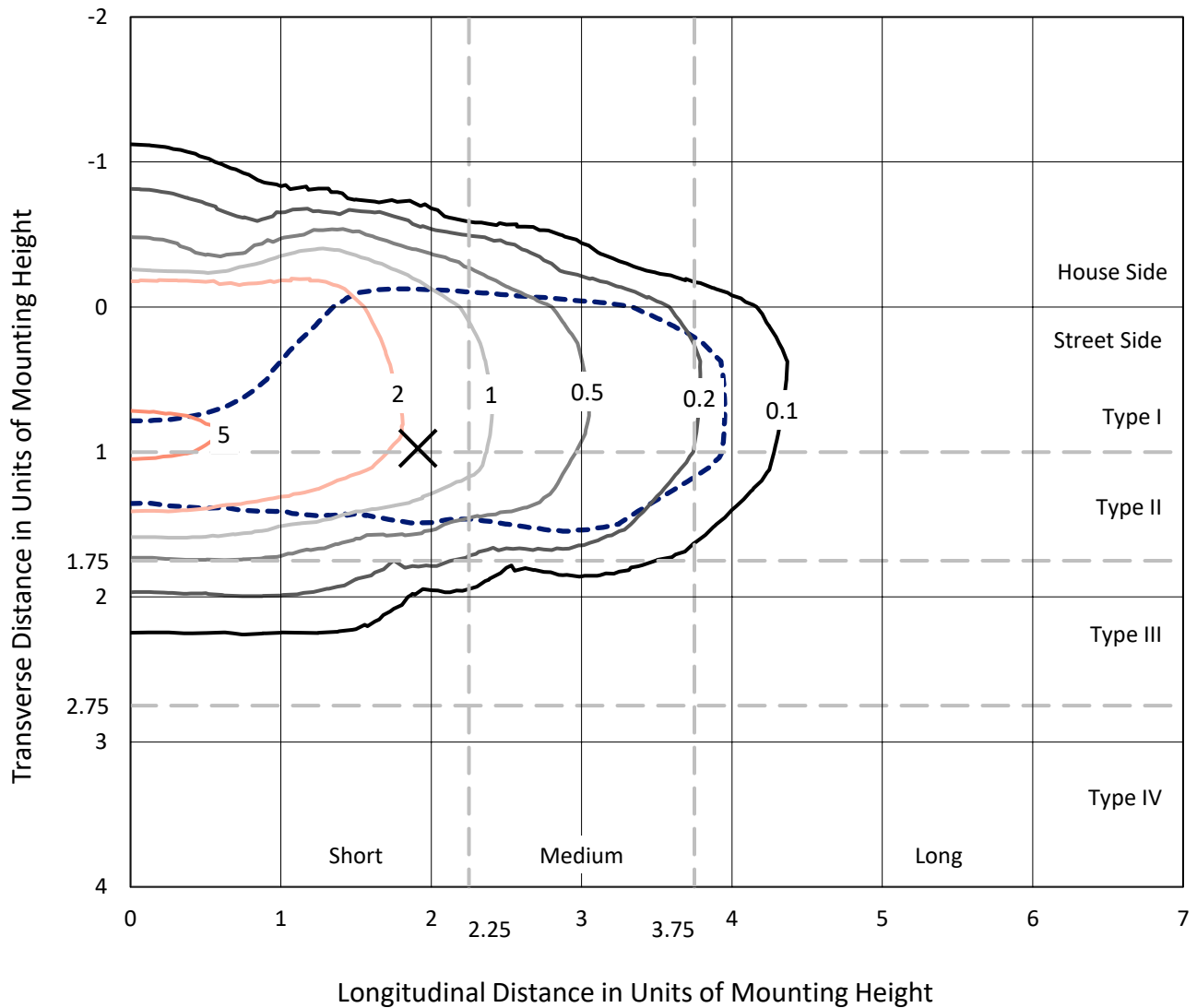
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949549
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Iso-Footcandle Lines of Horizontal Illumination

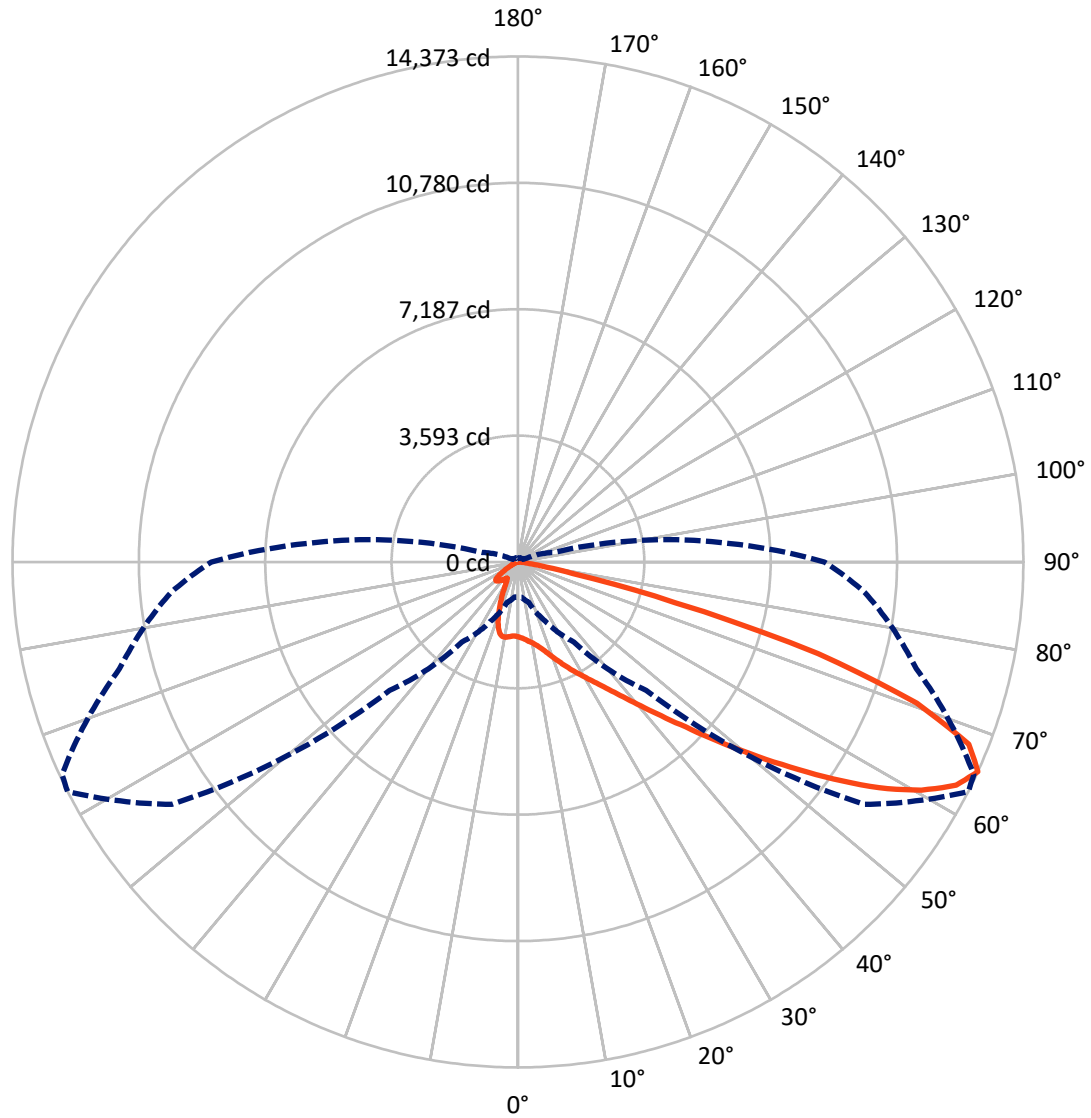
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

REPORT NUMBER: P949549
CATALOG NUMBER: GALN-SB4B-735-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2535.2	0.0	2535.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14711.8	0.0	14711.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	17247.0	0.0	17247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.2
10°-20°	556.5	3.2
20°-30°	968.9	5.6
30°-40°	1746.4	10.1
40°-50°	3463.7	20.1
50°-60°	4718.2	27.4
60°-70°	3766.0	21.8
70°-80°	1704.2	9.9
80°-90°	122.5	0.7
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°	17247.0	100.0
0°-180°	17247.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949549

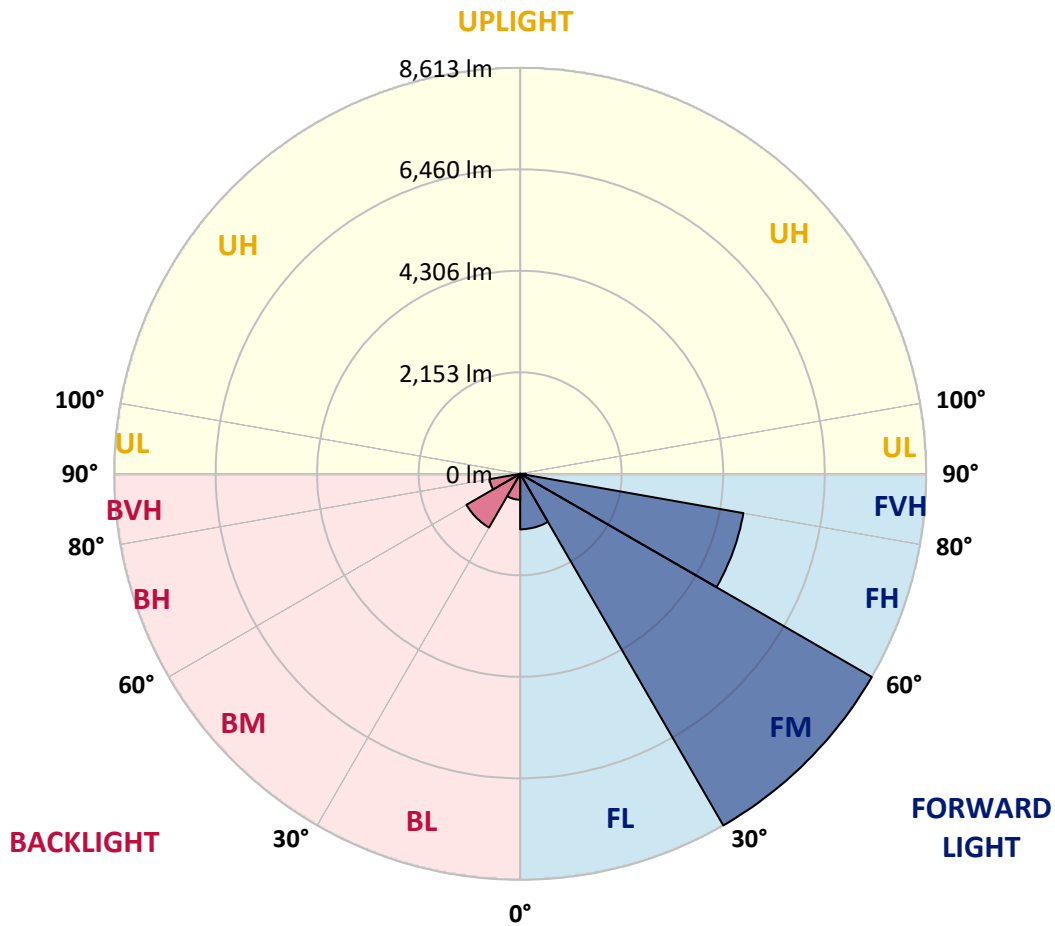
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.3	6.8			
FM (30°-60°)	8612.7	49.9			
FH (60°-80°)	4808.4	27.9			G2/5000
FVH (80°-90°)	113.4	0.7			G2/225
BL (0°-30°)	548.7	3.2	B2/1000		
BM (30°-60°)	1315.6	7.6	B2/2500		
BH (60°-80°)	661.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P949549

CATALOG NUMBER: GALN-SB4B-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6
2.5°	2178.4	2172.5	2180.8	2177.3	2174.9	2170.1	2167.8	2165.4	2160.6	2157.1
5°	2184.4	2180.8	2189.1	2196.2	2203.4	2210.5	2214.0	2218.8	2214.0	2204.5
7.5°	2134.5	2132.2	2150.0	2171.3	2203.4	2230.6	2260.3	2276.9	2278.1	2274.5
10°	2131.0	2125.0	2142.8	2168.9	2210.5	2259.1	2311.3	2346.9	2351.7	2367.1
12.5°	2186.7	2180.8	2205.7	2234.2	2276.9	2327.9	2392.0	2441.8	2449.0	2470.3
15°	2280.5	2272.2	2300.7	2337.4	2392.0	2450.2	2517.8	2562.9	2568.8	2594.9
17.5°	2389.6	2381.3	2414.6	2453.7	2513.0	2592.5	2670.8	2720.7	2727.8	2744.4
20°	2529.6	2519.0	2545.1	2580.7	2643.6	2738.5	2832.2	2903.4	2902.2	2902.2
22.5°	2692.2	2675.6	2698.1	2726.6	2785.9	2901.0	3025.6	3109.9	3109.9	3076.6
25°	2866.6	2850.0	2874.9	2901.0	2953.2	3083.7	3229.7	3334.1	3338.8	3281.9
27.5°	3084.9	3063.6	3082.6	3113.4	3144.3	3277.2	3450.4	3571.4	3573.8	3486.0
30°	3505.0	3444.4	3385.1	3351.9	3366.1	3497.8	3682.9	3817.0	3828.9	3707.9
32.5°	4273.8	4262.0	4053.1	3780.2	3637.9	3735.1	3942.8	4104.2	4111.3	3955.8
35°	5468.6	5454.4	5118.6	4598.9	4135.0	4053.1	4258.4	4449.4	4444.7	4269.1
37.5°	6894.8	6881.8	6439.2	5743.9	4992.8	4533.7	4665.4	4865.9	4895.6	4665.4
40°	8113.4	8064.7	7784.7	7114.3	6131.9	5331.0	5244.4	5377.3	5408.1	5135.2
42.5°	9036.5	8995.0	8852.6	8433.7	7510.6	6510.4	5926.6	5977.7	6012.1	5684.6
45°	9514.7	9505.2	9562.1	9523.0	8915.5	7957.9	6902.0	6689.6	6702.6	6293.3
47.5°	9582.3	9577.5	9837.4	10205.2	10123.3	9590.6	8153.7	7577.1	7530.8	6980.3
50°	9183.6	9174.1	9672.5	10361.8	10930.2	10962.2	9575.2	8577.3	8475.3	7691.0
52.5°	7910.5	7908.1	8726.8	9874.2	11213.7	12163.0	10980.0	9676.0	9505.2	8443.2
55°	6086.8	6130.7	7069.2	8425.4	10696.4	12740.8	12241.3	10895.8	10633.5	9200.2
57.5°	4311.8	4375.9	5303.7	6511.6	9092.3	12399.1	13094.4	12117.9	11835.5	9954.9
60°	2316.1	2373.0	3302.1	4743.7	6764.3	11124.8	13544.1	13178.6	12911.6	10671.5
62.5°	1379.9	1398.9	1783.3	3062.4	4575.2	8499.0	13353.0	13986.6	13767.1	11273.1
65°	990.7	994.3	1187.7	1869.9	2777.6	5163.7	12013.5	14373.4	14305.8	11726.3
67.5°	834.1	831.7	912.4	1242.3	1892.5	2586.6	9207.3	13826.4	14113.6	12013.5
70°	715.5	719.0	813.9	910.1	1422.6	1464.2	4577.6	12038.4	12650.6	12089.4
72.5°	532.7	544.6	632.4	829.4	1073.8	1007.4	1580.4	8926.1	10033.2	11390.5
75°	376.1	382.1	444.9	697.7	800.9	733.3	806.8	4614.4	6033.4	8732.7
77.5°	289.5	300.2	337.0	487.7	789.0	514.9	493.6	1597.0	2453.7	5275.2
80°	156.6	175.6	243.2	352.4	554.1	364.3	244.4	636.0	831.7	2466.8
82.5°	80.7	90.2	169.7	253.9	315.6	318.0	121.0	264.6	342.9	761.7
85°	32.0	39.2	113.9	140.0	162.6	156.6	54.6	106.8	123.4	211.2
87.5°	7.1	11.9	41.5	32.0	30.8	33.2	13.1	24.9	23.7	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949549
 CATALOG NUMBER: GALN-SB4B-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2128.6	0°	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6
2142.8	2.5°	2141.7	2136.9	2123.9	2109.6	2093.0	2083.5	2077.6	2076.4	2068.1	2062.2
2190.3	5°	2177.3	2172.5	2147.6	2117.9	2085.9	2061.0	2037.2	2015.9	1985.0	1979.1
2259.1	7.5°	2248.4	2235.4	2195.1	2154.7	2094.2	2021.8	1934.0	1833.2	1743.0	1715.7
2350.5	10°	2336.2	2318.4	2267.4	2196.2	2062.2	1865.2	1652.8	1455.9	1299.2	1255.3
2458.5	12.5°	2435.9	2420.5	2352.9	2221.2	1928.1	1570.9	1245.8	1001.4	849.5	811.6
2573.5	15°	2554.6	2532.0	2438.3	2183.2	1688.4	1193.6	855.5	710.7	656.1	649.0
2705.3	17.5°	2680.3	2643.6	2514.2	2046.7	1365.7	848.4	660.9	619.4	595.6	588.5
2838.1	20°	2795.4	2748.0	2559.3	1840.3	1020.4	660.9	592.1	564.8	543.4	535.1
2971.0	22.5°	2910.5	2842.9	2559.3	1559.1	765.3	586.1	543.4	518.5	493.6	482.9
3113.4	25°	3030.4	2940.2	2514.2	1245.8	615.8	537.5	497.1	469.9	448.5	435.5
3248.7	27.5°	3146.6	3022.1	2411.0	949.2	548.2	494.8	454.4	428.3	408.2	398.7
3395.8	30°	3257.0	3102.7	2266.2	720.2	504.3	453.2	415.3	392.7	372.6	363.1
3586.8	32.5°	3406.5	3204.8	2112.0	590.9	466.3	414.1	379.7	358.3	340.5	333.4
3834.8	35°	3614.1	3355.5	1979.1	580.2	434.3	382.1	347.6	327.5	309.7	303.7
4155.2	37.5°	3908.4	3598.7	1909.1	651.4	408.2	353.6	321.5	300.2	283.6	278.8
4562.1	40°	4271.4	3928.5	1947.1	722.6	390.4	328.7	297.8	276.5	262.2	256.3
5029.6	42.5°	4702.2	4335.5	2157.1	777.2	378.5	307.3	275.3	251.5	242.0	239.7
5560.0	45°	5196.9	4782.8	2478.6	835.3	359.5	287.1	252.7	234.9	227.8	226.6
6136.6	47.5°	5759.3	5274.1	2851.2	907.7	340.5	268.2	234.9	223.1	217.1	214.8
6738.2	50°	6317.0	5768.8	3234.4	948.0	325.1	250.4	220.7	211.2	206.5	205.3
7374.2	52.5°	6900.8	6277.8	3544.1	910.1	312.1	236.1	208.8	201.7	197.0	195.8
7960.3	55°	7457.2	6689.6	3597.5	772.4	285.9	221.9	195.8	192.2	186.3	186.3
8554.8	57.5°	7936.6	6896.0	3220.2	567.2	259.8	200.5	182.7	179.2	174.4	173.2
9091.1	60°	8376.8	6836.7	2485.7	382.1	231.4	179.2	166.1	163.7	159.0	153.1
9557.4	62.5°	8624.8	6575.7	1700.3	249.2	202.9	156.6	147.1	145.9	135.3	123.4
9902.6	65°	8718.5	6039.4	1060.7	181.5	169.7	134.1	127.0	124.6	109.2	96.1
10098.4	67.5°	8636.6	5156.6	535.1	143.6	134.1	111.5	104.4	104.4	93.7	81.9
10086.6	70°	8309.2	3865.7	225.4	115.1	103.2	85.4	85.4	90.2	79.5	66.4
9563.3	72.5°	7598.4	2600.8	119.8	87.8	77.1	60.5	70.0	73.6	62.9	49.8
7827.4	75°	6040.5	1586.4	83.1	65.3	48.6	42.7	53.4	55.8	42.7	33.2
5366.6	77.5°	4131.4	911.2	55.8	41.5	30.8	24.9	36.8	34.4	22.5	15.4
2069.3	80°	1814.2	379.7	32.0	19.0	11.9	9.5	13.1	9.5	7.1	4.7
283.6	82.5°	212.4	89.0	11.9	7.1	4.7	2.4	1.2	0.0	0.0	0.0
86.6	85°	43.9	10.7	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	8.3	2.4	1.2	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°
2128.6
2068.1
1976.7
1702.6
1238.7
800.9
641.9
585.0
530.4
477.0
430.7
398.7
364.3
333.4
303.7
277.6
255.1
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