

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: P947514

Luminaire Tested: **GALN-SB2D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15224 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

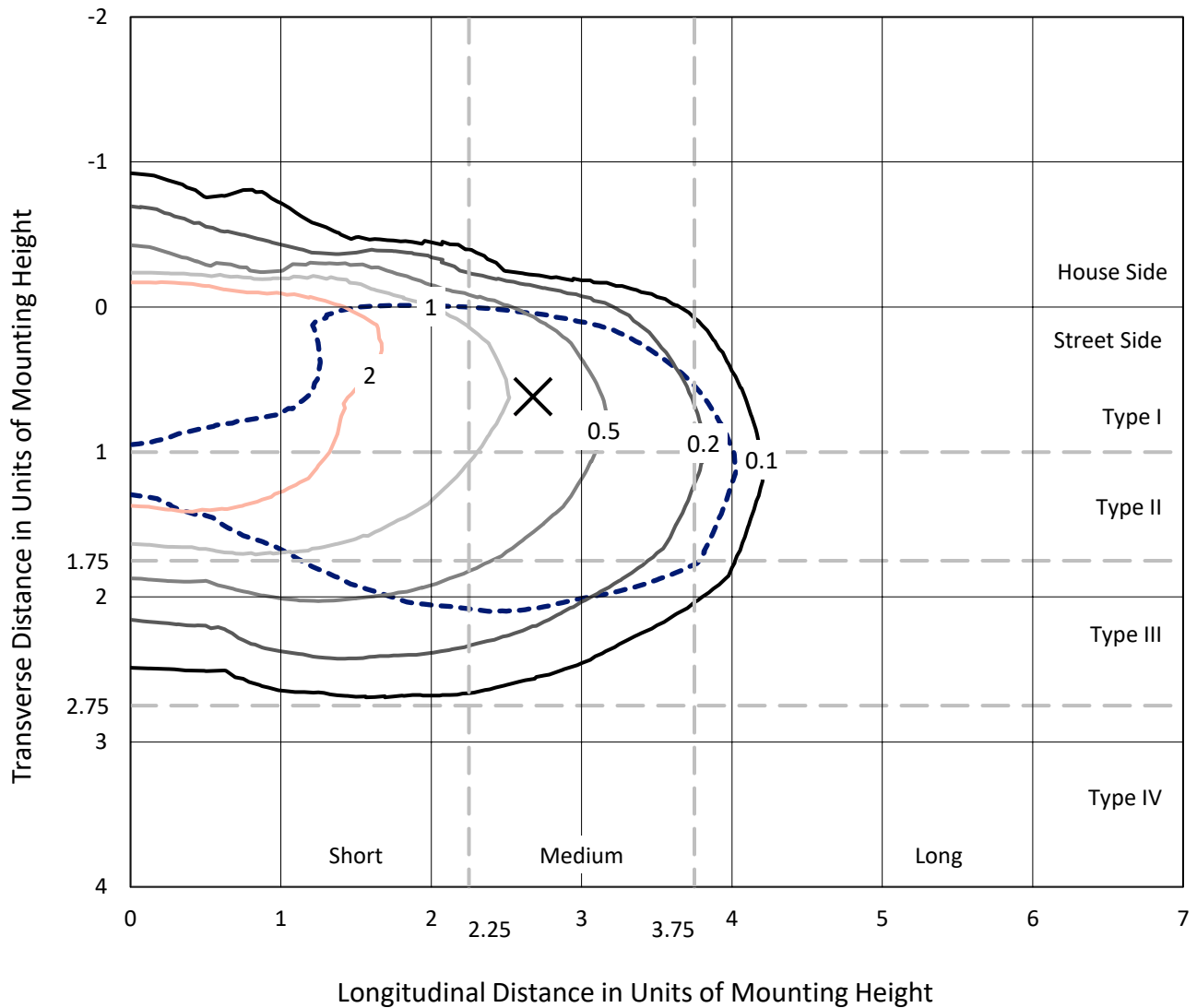
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

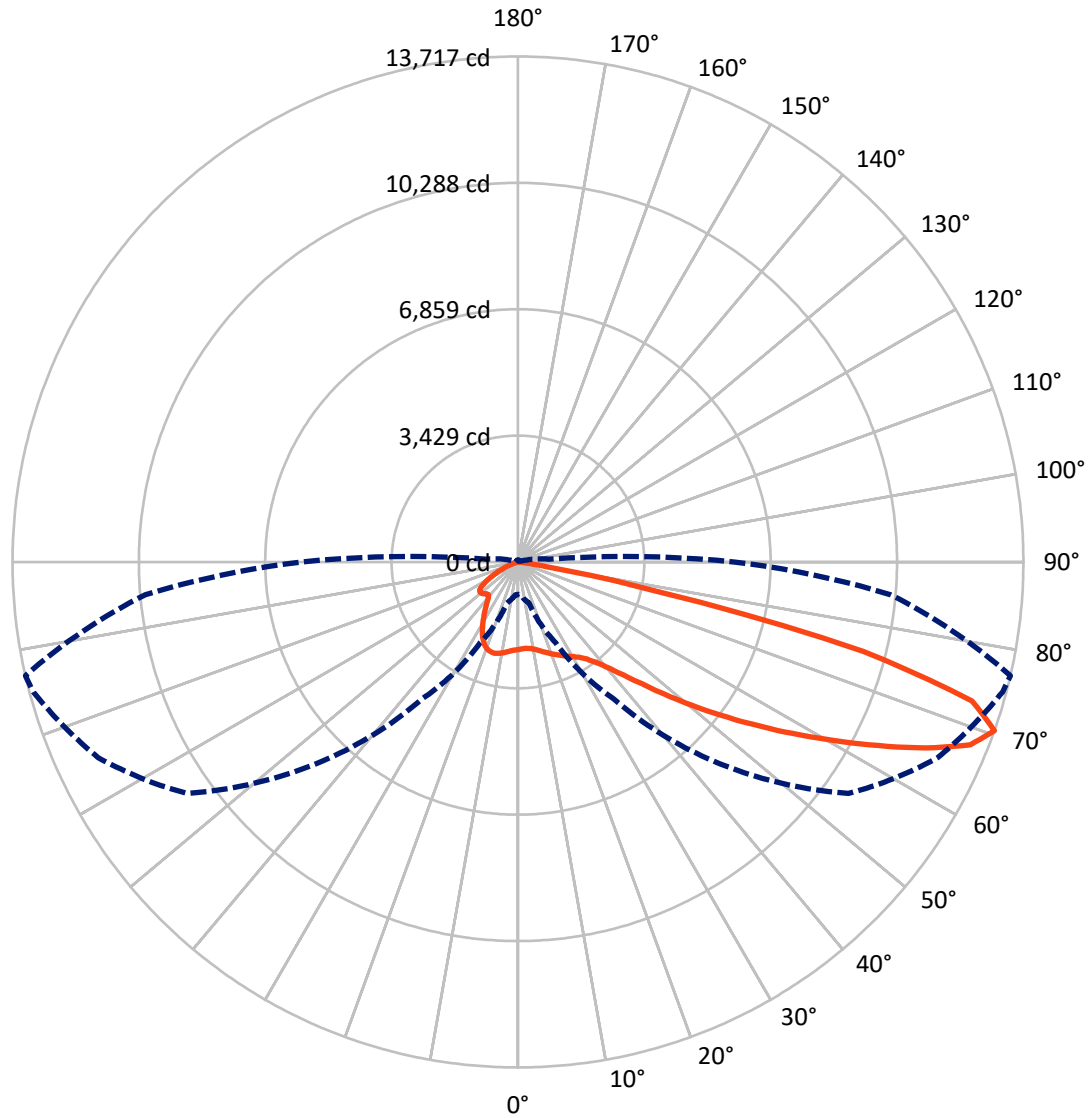
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.8	0.0	1604.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13619.2	0.0	13619.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	15224.0	0.0	15224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.3
10°-20°	485.8	3.2
20°-30°	751.5	4.9
30°-40°	1363.6	9.0
40°-50°	2573.9	16.9
50°-60°	3719.0	24.4
60°-70°	3958.8	26.0
70°-80°	2097.9	13.8
80°-90°	68.9	0.5
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°	15224.0	100.0
0°-180°	15224.0	100.0

Coefficient of Utilization



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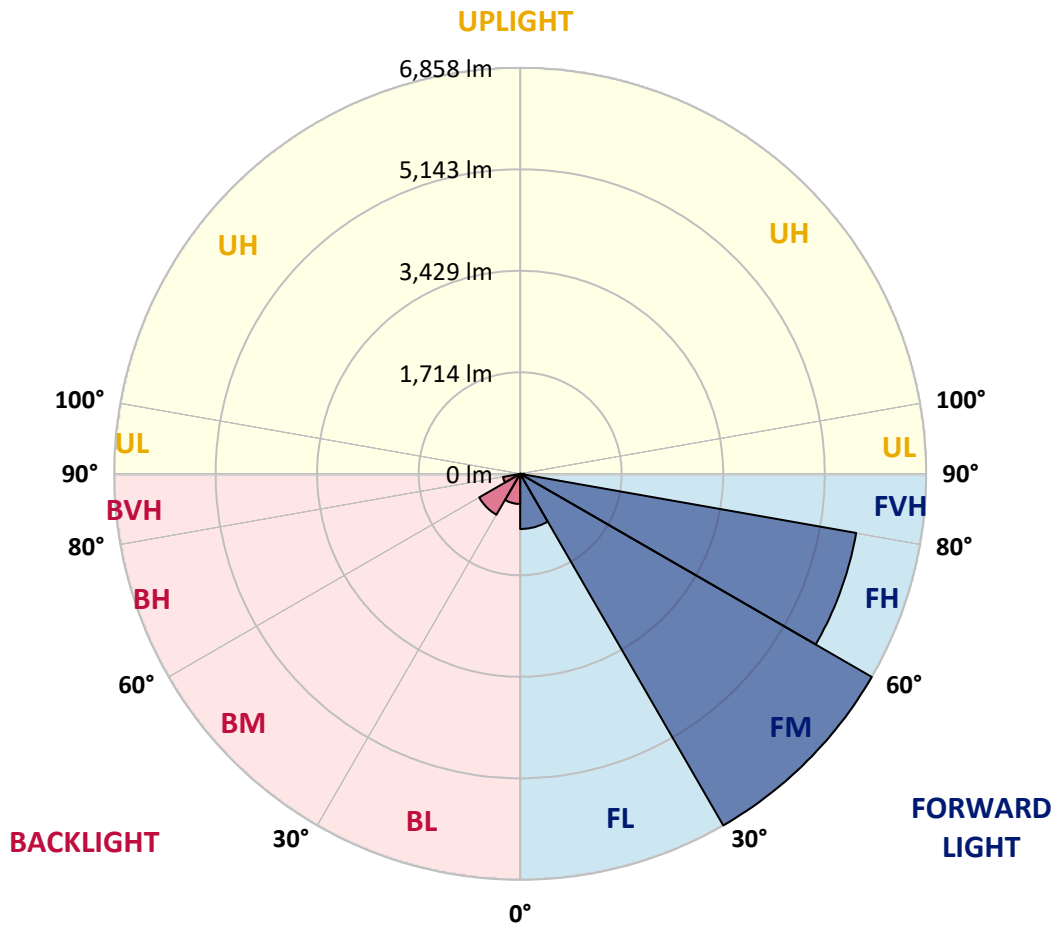
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	6.1			
FM (30°-60°)	6857.6	45.0			
FH (60°-80°)	5762.5	37.9			G3/7500
FVH (80°-90°)	67.0	0.4			G1/100
BL (0°-30°)	509.9	3.3	B2/1000		
BM (30°-60°)	798.9	5.2	B1/1000		
BH (60°-80°)	294.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7
2.5°	2229.5	2249.7	2246.8	2260.3	2265.1	2284.3	2303.5	2329.5	2358.3	2357.4
5°	2103.6	2123.7	2128.5	2146.8	2169.9	2199.7	2239.1	2291.0	2344.9	2353.5
7.5°	1954.5	1975.7	1988.2	2024.7	2067.0	2128.5	2193.0	2268.9	2358.3	2370.8
10°	1805.5	1824.7	1841.1	1893.0	1960.3	2051.6	2156.4	2266.0	2386.2	2404.5
12.5°	1713.2	1731.5	1749.8	1794.9	1878.6	1990.1	2132.4	2279.5	2432.4	2458.3
15°	1680.5	1696.9	1711.3	1751.7	1829.6	1956.5	2127.6	2307.4	2491.0	2525.6
17.5°	1685.3	1694.0	1703.6	1734.4	1810.3	1941.1	2136.2	2355.4	2560.2	2591.0
20°	1713.2	1718.0	1719.0	1740.1	1807.4	1939.2	2153.5	2401.6	2625.6	2666.9
22.5°	1748.8	1750.7	1748.8	1763.2	1825.7	1953.6	2176.6	2457.3	2698.7	2737.1
25°	1915.1	1878.6	1832.4	1804.6	1856.5	1981.5	2211.2	2532.3	2778.5	2816.0
27.5°	2431.4	2326.6	2161.2	1975.7	1919.9	2021.8	2259.3	2608.3	2859.2	2892.9
30°	3269.7	3132.3	2851.5	2433.3	2123.7	2106.4	2321.8	2684.2	2944.8	2981.3
32.5°	4110.0	4076.4	3752.4	3173.6	2582.3	2294.9	2425.6	2787.1	3058.2	3087.1
35°	4959.9	4891.6	4626.3	4054.2	3289.0	2678.5	2598.7	2921.7	3207.2	3239.9
37.5°	5610.8	5569.4	5405.0	4933.9	4127.3	3270.7	2894.8	3130.3	3423.6	3460.1
40°	6185.7	6166.4	6110.7	5800.2	5064.7	4045.6	3355.3	3453.4	3723.5	3766.8
42.5°	6637.5	6682.7	6714.4	6627.9	6030.9	4930.1	3974.4	3907.1	4141.7	4186.0
45°	7100.0	7115.4	7243.2	7368.2	6990.4	5855.0	4672.4	4438.8	4661.9	4716.7
47.5°	7397.0	7458.6	7683.5	7903.7	7797.0	6772.1	5422.3	5066.6	5264.7	5367.5
50°	7419.2	7535.5	7845.1	8228.7	8384.4	7645.1	6237.6	5781.9	5992.4	6105.9
52.5°	7050.9	7231.7	7711.4	8272.9	8701.7	8384.4	7080.7	6497.2	6767.3	6915.4
55°	5406.0	5642.5	7208.6	8032.5	8714.2	8944.9	7901.8	7242.3	7630.7	7798.0
57.5°	4709.9	4829.1	5667.5	7615.3	8482.5	9170.8	8644.0	7951.8	8570.0	8777.6
60°	3918.7	4075.4	4753.2	6932.7	8168.1	9192.9	9299.7	8867.0	9588.1	9821.7
62.5°	2663.1	2833.3	3507.2	5759.8	7738.3	9182.4	9837.1	9809.2	10719.7	10970.6
65°	1649.8	1756.5	2200.7	4703.2	7137.5	9193.9	10399.5	10953.3	11913.7	12168.5
67.5°	1303.7	1352.7	1584.4	3611.0	6102.0	8934.3	10961.0	12029.1	13037.6	13239.5
70°	875.8	905.6	1152.7	2420.8	4539.8	7736.4	10950.4	12569.4	13616.4	13717.3
72.5°	461.5	484.5	673.9	1121.0	2741.9	5499.2	9230.4	11923.3	13040.5	12888.6
75°	230.7	269.2	453.8	569.2	1171.0	3066.9	5731.9	9400.6	10264.0	9675.6
77.5°	175.0	211.5	374.9	374.9	407.6	1032.5	2427.5	5127.2	4729.1	3937.9
80°	111.5	144.2	327.8	283.6	170.2	262.5	632.6	1436.3	1004.7	764.3
82.5°	65.4	94.2	273.0	187.5	95.2	97.1	178.8	305.7	260.5	202.9
85°	26.0	61.5	187.5	74.0	37.5	24.0	53.8	65.4	53.8	40.4
87.5°	0.0	14.4	32.7	0.0	2.9	1.9	3.8	4.8	4.8	3.8
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°
2374.7	0°	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7	2374.7
2376.6	2.5°	2385.2	2387.2	2392.9	2393.9	2380.4	2363.1	2356.4	2353.5	2342.0	2341.0
2392.0	5°	2414.1	2422.7	2414.1	2389.1	2329.5	2245.8	2182.4	2130.5	2083.4	2068.9
2444.9	7.5°	2471.8	2480.4	2454.5	2356.4	2206.4	2040.1	1890.1	1784.4	1689.2	1653.6
2509.3	10°	2554.5	2566.0	2484.3	2286.2	2020.9	1753.6	1499.8	1321.0	1181.6	1124.8
2596.8	12.5°	2658.3	2663.1	2500.6	2179.5	1779.6	1397.9	1038.3	847.0	723.0	676.8
2702.5	15°	2772.7	2766.0	2502.5	2034.3	1450.8	988.3	677.8	556.7	506.7	491.3
2808.3	17.5°	2892.9	2865.0	2464.1	1824.7	1090.2	675.9	502.8	474.0	465.3	461.5
2913.1	20°	3011.1	2948.6	2393.9	1550.7	782.6	504.7	456.7	448.0	443.2	441.3
3018.8	22.5°	3118.8	3012.1	2273.7	1232.5	568.2	446.1	431.7	424.0	415.3	411.5
3121.7	25°	3223.6	3048.6	2104.5	935.4	454.7	417.2	405.7	391.3	379.8	374.9
3232.2	27.5°	3325.5	3071.7	1893.0	692.2	405.7	390.3	369.2	349.0	340.3	338.4
3350.5	30°	3434.1	3079.4	1652.7	516.3	375.9	356.7	325.9	302.8	298.0	299.0
3510.1	32.5°	3566.8	3090.9	1410.4	423.0	350.9	316.3	279.8	255.7	251.9	255.7
3742.7	35°	3725.4	3114.0	1176.8	389.4	328.8	275.0	235.5	215.4	211.5	214.4
4040.8	37.5°	3940.8	3151.5	958.5	382.6	310.5	240.4	198.0	181.7	181.7	182.7
4406.1	40°	4227.3	3251.5	763.4	377.8	300.9	214.4	167.3	160.6	163.4	165.4
4871.4	42.5°	4576.3	3463.9	631.6	372.1	290.3	202.9	151.9	149.0	153.8	155.7
5429.1	45°	4967.6	3733.1	585.5	362.4	280.7	210.5	145.2	141.3	147.1	148.1
6054.0	47.5°	5372.3	3996.6	579.7	351.9	271.1	222.1	143.2	134.6	141.3	142.3
6721.2	50°	5781.9	4168.6	585.5	335.5	255.7	222.1	144.2	127.9	133.6	136.5
7413.4	52.5°	6194.3	4247.5	581.6	300.0	228.8	208.6	144.2	122.1	127.9	129.8
8161.4	55°	6594.3	4232.1	523.0	247.1	194.2	184.6	140.4	117.3	121.1	122.1
8868.0	57.5°	6910.6	4017.7	414.4	192.3	157.7	153.8	127.9	111.5	114.4	113.4
9516.0	60°	7075.9	3546.6	296.1	148.1	124.0	121.1	112.5	103.8	105.8	100.9
10064.9	62.5°	7077.9	2923.6	198.0	117.3	99.0	96.1	96.1	93.3	91.3	81.7
10489.9	65°	6926.9	2232.4	131.7	93.3	79.8	75.0	80.8	79.8	73.1	59.6
10619.7	67.5°	6584.7	1463.3	100.0	73.1	61.5	58.6	64.4	67.3	62.5	50.0
10146.7	70°	5880.9	851.8	82.7	56.7	46.1	43.3	51.9	57.7	51.9	40.4
8672.8	72.5°	4884.9	459.6	67.3	42.3	31.7	28.8	41.3	47.1	41.3	29.8
5564.6	75°	3169.8	246.1	51.9	27.9	16.3	18.3	30.8	34.6	28.8	19.2
1633.4	77.5°	1064.3	108.6	32.7	13.5	7.7	7.7	18.3	21.2	13.5	6.7
297.1	80°	237.5	45.2	13.5	5.8	2.9	2.9	3.8	3.8	1.9	0.0
91.3	82.5°	77.9	18.3	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
23.1	85°	29.8	6.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	11.5	1.0	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°
2374.7
2342.9
2060.3
1639.2
1100.8
662.4
491.3
460.5
439.4
410.5
373.0
336.5
299.0
254.8
213.4
181.7
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