

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: P941004

Luminaire Tested: **GALN-SB4B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14808 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

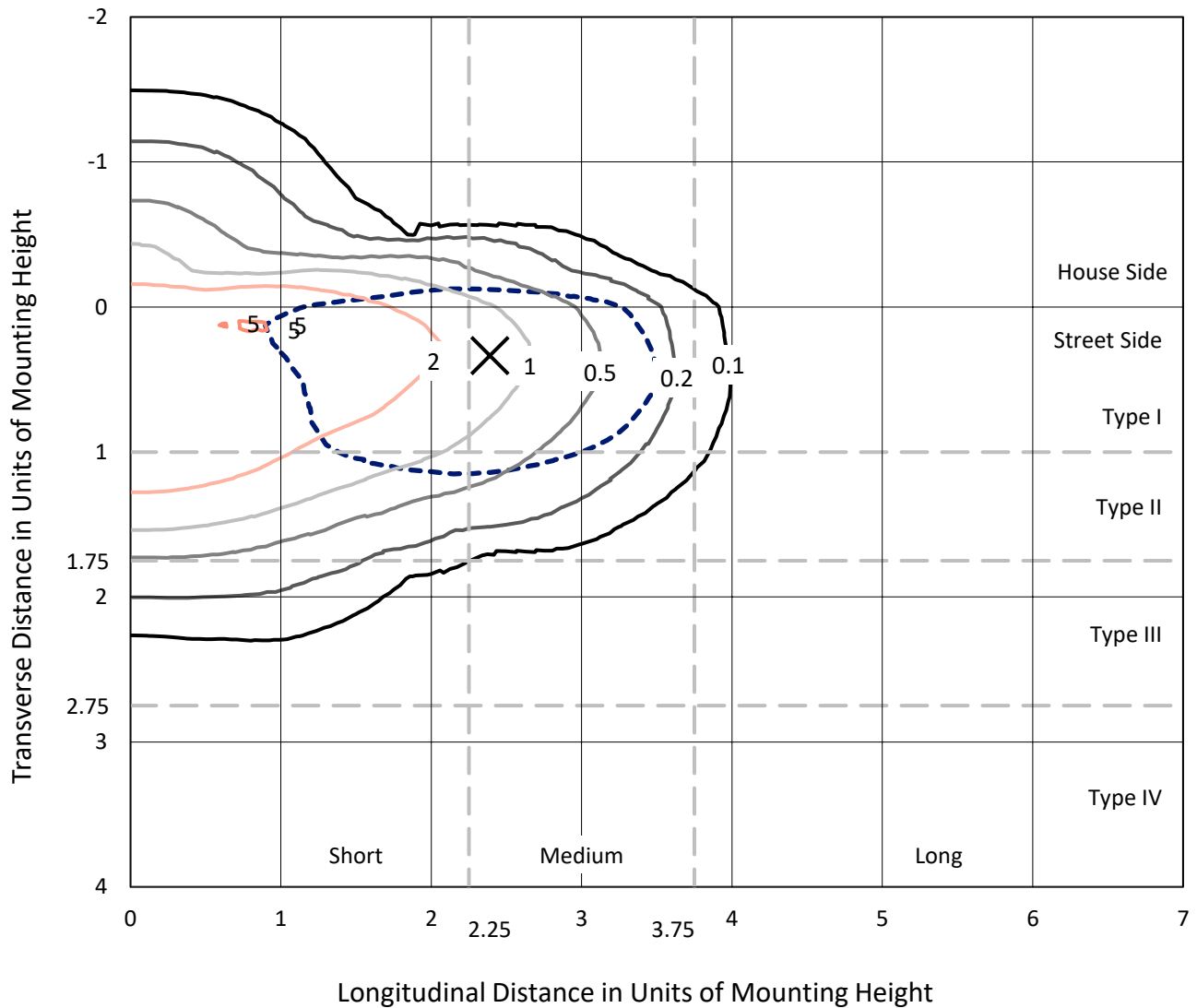
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941004
 CATALOG NUMBER: GALN-SB4B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

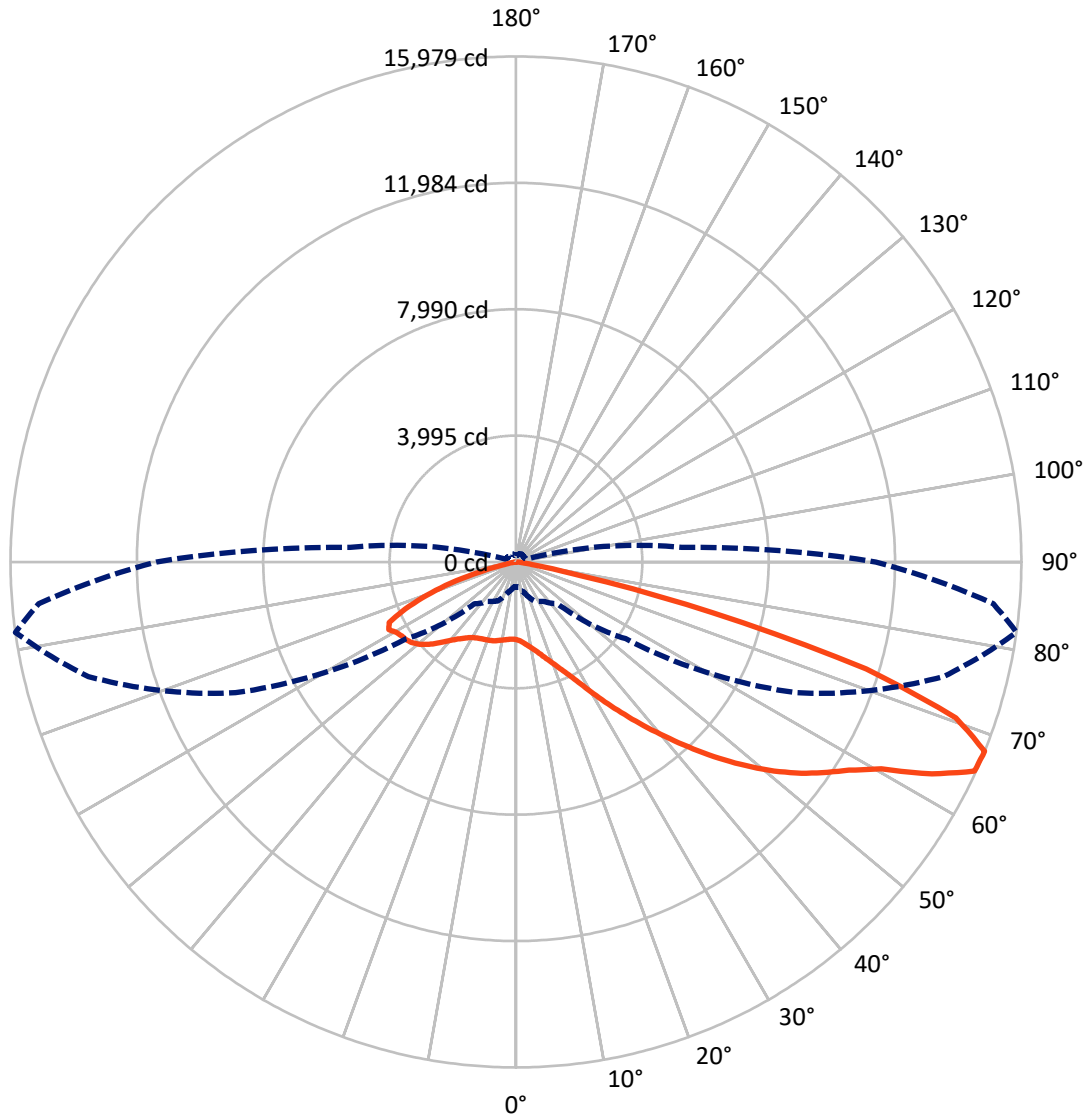
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P941004
CATALOG NUMBER: GALN-SB4B-830-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941004

CATALOG NUMBER: GALN-SB4B-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2682.3	0.0	2682.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12125.7	0.0	12125.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	14808.0	0.0	14808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.5
10°-20°	568.0	3.8
20°-30°	909.7	6.1
30°-40°	1608.6	10.9
40°-50°	2818.4	19.0
50°-60°	3759.0	25.4
60°-70°	3499.4	23.6
70°-80°	1343.1	9.1
80°-90°	83.4	0.6
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°	14808.0	100.0
0°-180°	14808.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941004

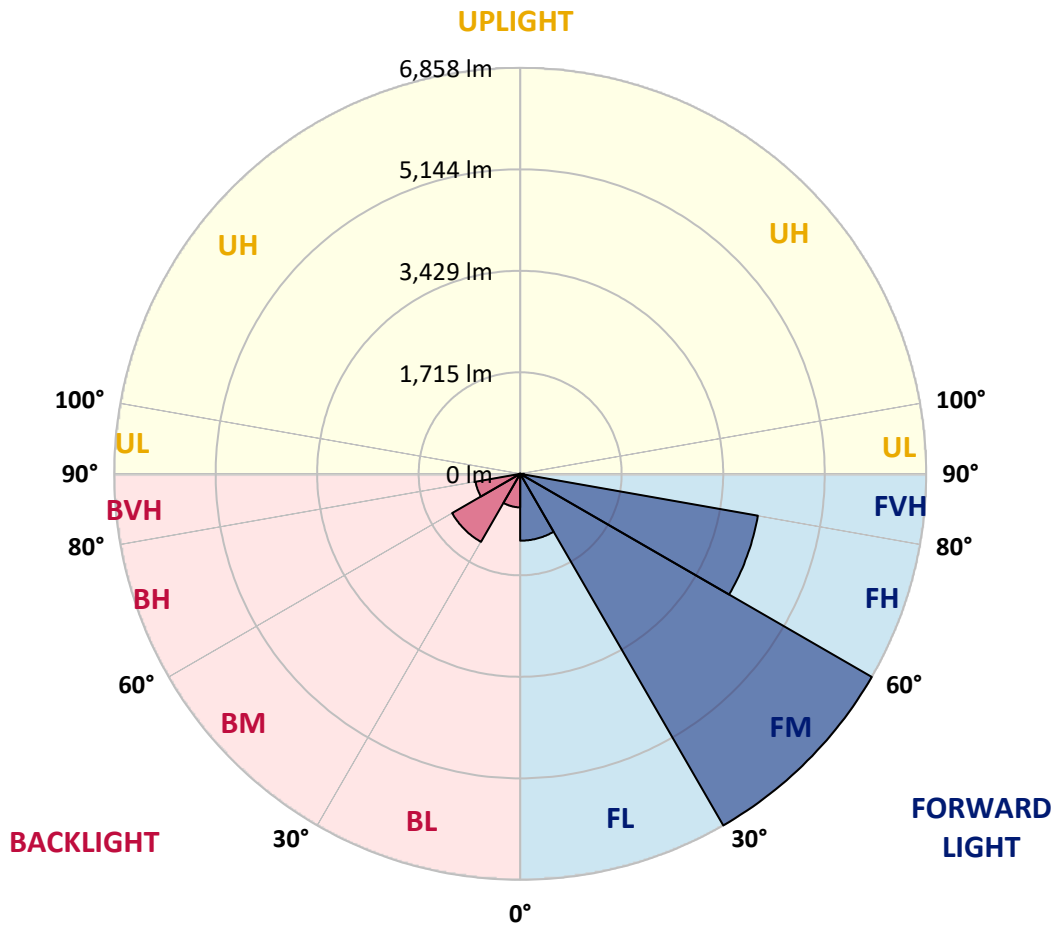
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.7	7.6			
FM (30°-60°)	6858.5	46.3			
FH (60°-80°)	4076.9	27.5			G2/5000
FVH (80°-90°)	60.6	0.4			G1/100
BL (0°-30°)	566.5	3.8	B2/1000		
BM (30°-60°)	1327.5	9.0	B2/2500		
BH (60°-80°)	765.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.8	0.2			G1/100
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 Medium



REPORT NUMBER: P941004

CATALOG NUMBER: GALN-SB4B-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2592.8	2607.8	2599.2	2595.0	2587.5	2576.9	2568.3	2541.7	2514.0	2495.8
5°	2645.1	2660.0	2658.9	2663.2	2668.5	2671.7	2669.6	2639.8	2600.3	2569.4
7.5°	2600.3	2617.4	2631.2	2652.6	2689.9	2729.3	2748.5	2742.1	2701.6	2658.9
10°	2473.4	2491.6	2524.6	2574.7	2653.6	2738.9	2810.3	2843.4	2817.8	2770.9
12.5°	2241.0	2259.1	2324.2	2432.9	2565.1	2713.3	2849.8	2938.3	2944.7	2897.8
15°	1979.8	1997.9	2067.2	2203.7	2405.2	2643.0	2871.1	3038.5	3095.0	3054.5
17.5°	1817.8	1833.8	1886.0	1995.8	2205.8	2502.2	2863.6	3145.1	3274.1	3242.1
20°	1768.7	1782.6	1807.1	1883.9	2058.7	2356.2	2814.6	3245.3	3467.1	3449.0
22.5°	1821.0	1833.8	1841.2	1875.3	1985.1	2260.2	2752.8	3347.7	3691.0	3693.1
25°	1941.4	1954.2	1945.7	1967.0	2015.0	2230.4	2729.3	3468.1	3972.4	3995.9
27.5°	2139.7	2140.8	2120.5	2119.5	2126.9	2275.1	2753.8	3597.2	4327.5	4371.2
30°	2537.4	2521.4	2443.6	2359.4	2321.0	2409.5	2822.1	3749.6	4746.4	4824.3
32.5°	3150.4	3127.0	2984.1	2782.6	2580.1	2625.9	2944.7	3923.4	5202.8	5343.5
35°	3815.7	3809.3	3660.1	3360.5	3006.5	2934.0	3144.0	4151.5	5700.6	5924.5
37.5°	4434.1	4430.9	4345.6	3992.7	3562.0	3363.7	3463.9	4450.1	6233.7	6557.8
40°	4999.1	5008.7	4923.4	4607.9	4173.9	3914.9	3898.9	4818.9	6826.5	7247.6
42.5°	5487.4	5498.1	5411.7	5178.2	4778.4	4524.7	4433.0	5271.0	7405.4	7988.6
45°	5819.0	5885.1	5872.3	5685.7	5398.9	5135.6	5074.8	5838.2	8065.3	8774.3
47.5°	5912.8	5973.6	6069.5	6095.1	5920.3	5661.2	5733.7	6521.6	8732.7	9561.1
50°	5681.5	5738.0	5937.3	6202.8	6324.3	6244.4	6374.4	7254.0	9416.1	10345.8
52.5°	5225.1	5282.7	5534.3	5954.4	6450.1	6701.7	7017.3	7975.8	10078.2	11088.9
55°	4565.2	4626.0	4949.0	5424.5	6210.3	6890.5	7553.6	8696.5	10684.8	11757.4
57.5°	3667.5	3712.3	4048.1	4713.4	5606.8	6702.8	7949.1	9483.3	11256.3	12414.1
60°	2390.3	2429.7	2819.9	3562.0	4606.8	6075.9	8028.0	10360.7	12015.4	13268.1
62.5°	1589.6	1616.3	1847.6	2392.4	3244.3	4872.3	7566.4	11061.2	13128.4	14754.3
65°	1090.7	1117.3	1348.7	1728.2	2096.0	3222.9	6239.0	10968.4	14137.0	15934.5
67.5°	778.3	800.7	996.8	1355.1	1517.1	1872.1	4229.4	9782.9	13992.0	15979.3
70°	557.6	570.4	732.4	1055.5	1205.8	1124.8	2351.9	7482.2	12251.0	14755.4
72.5°	390.2	394.5	508.5	803.9	971.3	820.9	1119.4	4988.5	9265.8	11581.5
75°	264.4	269.7	342.2	589.6	779.3	626.9	592.8	2674.9	5439.4	6410.7
77.5°	162.1	164.2	220.7	403.0	583.2	477.6	381.7	1133.3	2104.6	2066.2
80°	91.7	91.7	140.7	250.5	397.7	308.1	267.6	481.9	666.3	585.3
82.5°	51.2	52.2	102.3	155.7	263.3	182.3	147.1	222.8	287.9	254.8
85°	21.3	23.5	62.9	73.6	125.8	90.6	59.7	93.8	106.6	94.9
87.5°	2.1	3.2	19.2	13.9	14.9	18.1	8.5	18.1	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941004
 CATALOG NUMBER: GALN-SB4B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2453.2	0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2489.4	2.5°	2469.2	2453.2	2412.7	2365.8	2303.9	2274.1	2233.6	2205.8	2182.4	2184.5
2551.3	5°	2517.2	2476.6	2386.0	2273.0	2132.3	2032.1	1925.4	1851.9	1792.2	1779.4
2636.6	7.5°	2583.3	2519.3	2360.4	2156.8	1919.0	1738.9	1577.9	1474.5	1400.9	1377.5
2740.0	10°	2668.5	2575.8	2327.4	2010.7	1668.5	1439.3	1266.6	1185.5	1135.4	1118.4
2861.5	12.5°	2767.7	2640.8	2283.7	1832.7	1410.5	1189.8	1080.0	1039.5	1023.5	1018.2
3010.8	15°	2892.4	2721.9	2217.6	1621.6	1191.9	1037.4	990.4	985.1	987.2	985.1
3189.9	17.5°	3040.6	2810.3	2109.9	1404.1	1044.8	959.5	942.5	946.7	952.1	951.0
3390.3	20°	3202.7	2897.8	1972.4	1211.1	944.6	904.1	894.5	898.8	903.0	900.9
3621.7	22.5°	3387.1	2991.6	1819.9	1060.8	877.4	852.9	842.2	843.3	843.3	839.1
3914.9	25°	3607.8	3095.0	1660.0	954.2	826.3	807.1	794.3	790.0	783.6	770.8
4271.0	27.5°	3871.1	3204.8	1506.5	879.6	785.7	767.6	752.7	742.0	726.0	704.7
4698.5	30°	4167.5	3338.1	1376.4	832.7	753.8	735.6	718.6	702.6	679.1	652.5
5190.0	32.5°	4516.2	3480.9	1281.5	801.7	725.0	705.8	685.5	666.3	640.7	614.1
5742.2	35°	4932.0	3653.7	1226.1	780.4	702.6	677.0	654.6	633.3	614.1	590.6
6342.5	37.5°	5382.9	3837.0	1209.0	769.8	687.7	648.2	622.6	607.7	605.6	591.7
6991.7	40°	5876.6	4054.5	1221.8	763.4	671.7	620.5	592.8	589.6	594.9	570.4
7685.8	42.5°	6399.0	4312.5	1243.1	755.9	649.3	592.8	566.1	566.1	561.9	527.7
8419.3	45°	6964.0	4610.0	1264.4	737.8	622.6	565.1	544.8	537.3	519.2	486.2
9157.1	47.5°	7533.3	4912.8	1280.4	704.7	590.6	541.6	523.5	506.4	479.8	449.9
9881.0	50°	8073.9	5184.6	1263.4	655.7	554.4	519.2	500.0	476.6	447.8	427.5
10566.5	52.5°	8556.8	5420.2	1190.9	598.1	516.0	495.8	478.7	454.2	430.7	409.4
11184.9	55°	8976.9	5611.1	1062.9	543.7	481.9	475.5	458.4	427.5	395.5	377.4
11797.9	57.5°	9379.9	5756.1	903.0	499.0	451.0	453.1	427.5	399.8	370.0	350.8
12624.1	60°	9916.2	5950.1	741.0	457.4	417.9	424.3	396.6	376.3	339.0	314.5
14041.0	62.5°	10773.3	6251.8	588.5	406.2	379.5	381.7	370.0	345.4	300.7	271.9
15091.2	65°	11453.5	6141.0	463.8	350.8	335.8	339.0	339.0	312.4	264.4	231.4
15147.7	67.5°	11376.8	5258.2	370.0	296.4	294.3	296.4	303.8	281.5	234.6	207.9
13994.1	70°	10480.1	4182.5	296.4	246.3	255.9	250.5	271.9	256.9	211.1	184.4
10849.0	72.5°	8551.5	3012.9	226.0	203.6	196.2	204.7	245.2	231.4	175.9	146.1
5746.5	75°	4997.0	1607.7	168.4	161.0	141.8	170.6	217.5	197.2	134.3	107.7
1761.3	77.5°	1626.9	560.8	123.7	118.3	105.5	137.5	185.5	166.3	109.8	85.3
516.0	80°	436.1	169.5	84.2	77.8	68.2	102.3	147.1	132.2	78.9	55.4
221.8	82.5°	174.8	71.4	49.0	43.7	37.3	70.4	116.2	106.6	58.6	35.2
69.3	85°	56.5	23.5	18.1	13.9	17.1	43.7	69.3	72.5	41.6	18.1
10.7	87.5°	7.5	3.2	3.2	4.3	3.2	7.5	21.3	20.3	11.7	2.1
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°
2453.2
2163.2
1750.6
1354.0
1105.6
1015.0
984.0
948.9
899.8
836.9
768.7
702.6
650.3
615.2
588.5
590.6
571.5
527.7
485.1
448.8
424.3
407.3
375.3
348.6
311.3
269.7
228.2
203.6
181.2
142.9
104.5
82.1
54.4
35.2
13.9
0.0
0.0

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