

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: P940864

Luminaire Tested: **GALN-SB4A-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940864
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-SB4A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA 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: 12557 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

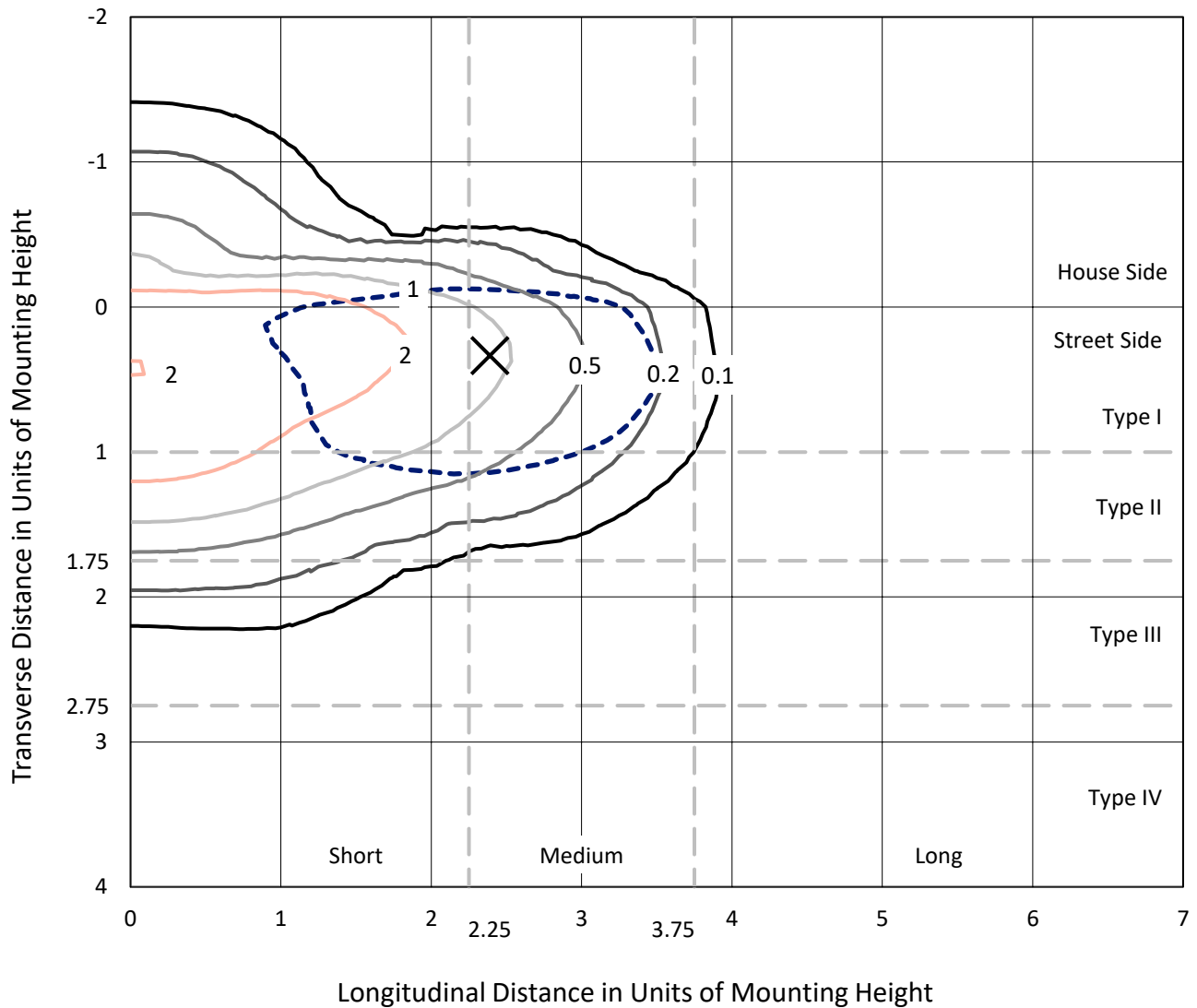
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

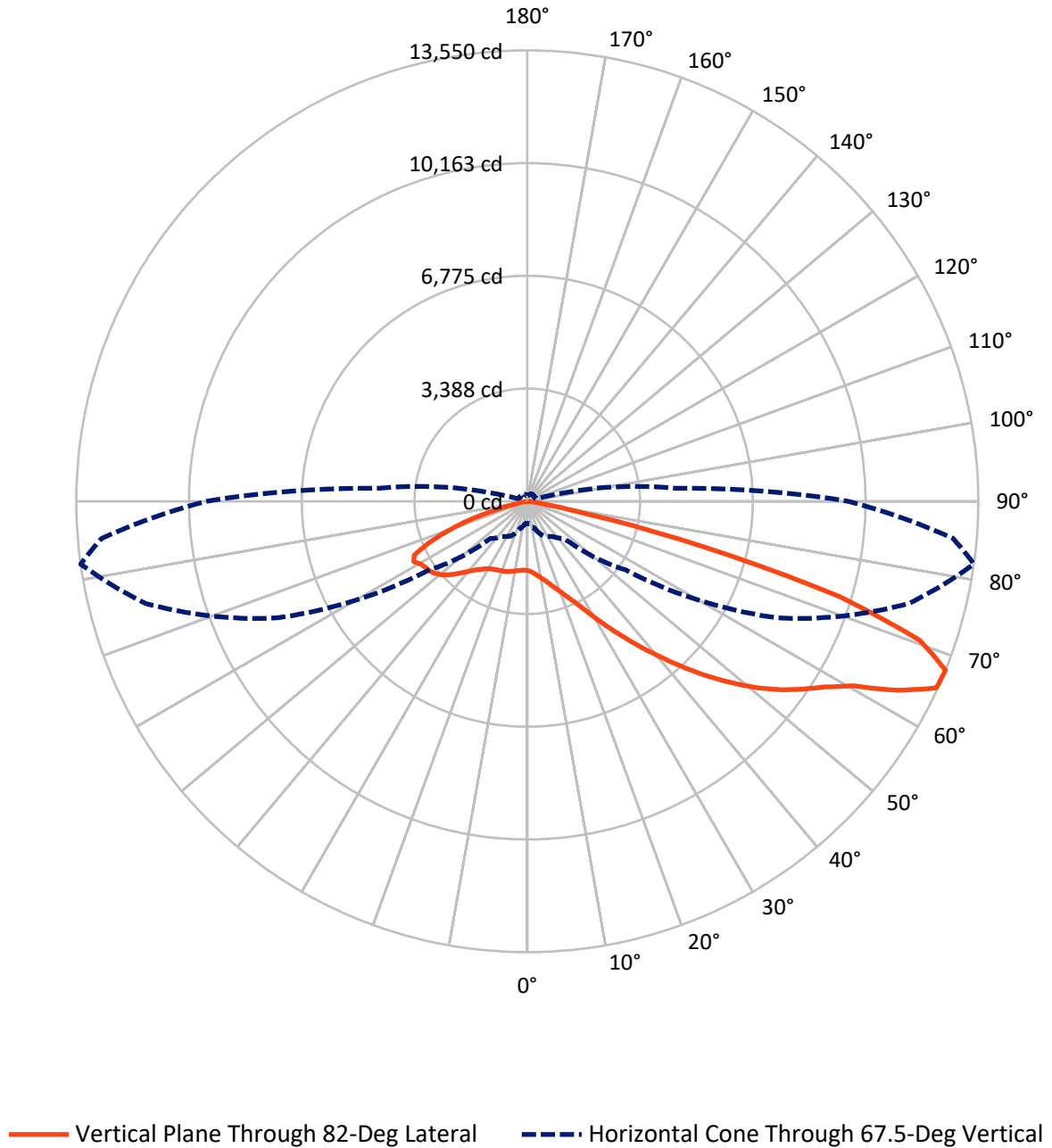
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2274.6	0.0	2274.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10282.4	0.0	10282.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	12557.0	0.0	12557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	1.5
10°-20°	481.6	3.8
20°-30°	771.4	6.1
30°-40°	1364.1	10.9
40°-50°	2390.0	19.0
50°-60°	3187.5	25.4
60°-70°	2967.4	23.6
70°-80°	1138.9	9.1
80°-90°	70.7	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°	12557.0	100.0
0°-180°	12557.0	100.0

Coefficient of Utilization



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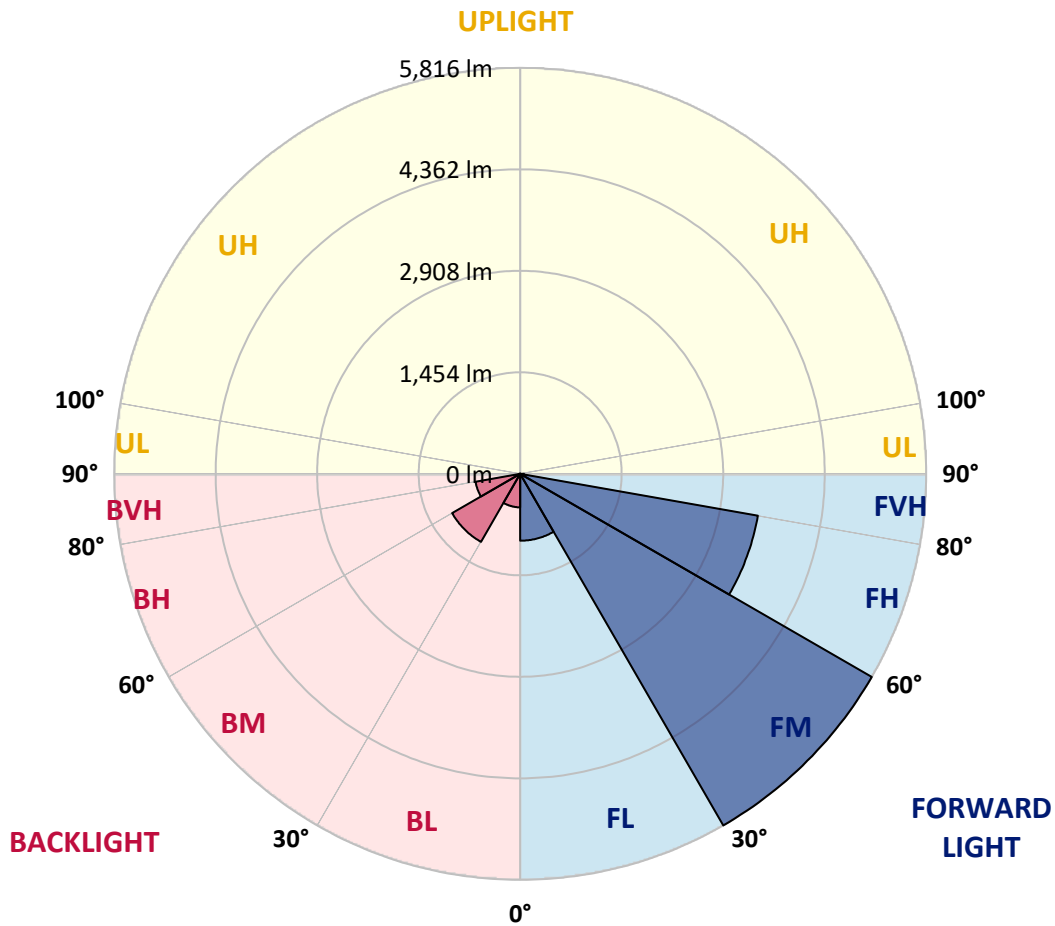
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.0	7.6			
FM (30°-60°)	5815.9	46.3			
FH (60°-80°)	3457.1	27.5			G2/5000
FVH (80°-90°)	51.4	0.4			G1/100
BL (0°-30°)	480.4	3.8	B1/500		
BM (30°-60°)	1125.7	9.0	B2/2500		
BH (60°-80°)	649.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	19.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3
2.5°	2198.7	2211.4	2204.1	2200.5	2194.2	2185.1	2177.9	2155.3	2131.8	2116.4
5°	2243.0	2255.7	2254.8	2258.4	2262.9	2265.6	2263.8	2238.5	2205.0	2178.8
7.5°	2205.0	2219.5	2231.2	2249.3	2281.0	2314.4	2330.7	2325.3	2290.9	2254.8
10°	2097.4	2112.8	2140.8	2183.3	2250.2	2322.6	2383.1	2411.2	2389.5	2349.7
12.5°	1900.4	1915.7	1970.9	2063.1	2175.2	2300.9	2416.6	2491.6	2497.0	2457.3
15°	1678.9	1694.2	1753.0	1868.7	2039.6	2241.2	2434.7	2576.6	2624.5	2590.2
17.5°	1541.4	1555.0	1599.3	1692.4	1870.5	2121.9	2428.3	2667.0	2776.4	2749.3
20°	1499.9	1511.6	1532.4	1597.5	1745.8	1998.0	2386.8	2752.0	2940.0	2924.7
22.5°	1544.2	1555.0	1561.3	1590.3	1683.4	1916.6	2334.3	2838.8	3129.9	3131.7
25°	1646.3	1657.2	1649.9	1668.0	1708.7	1891.3	2314.4	2940.9	3368.6	3388.5
27.5°	1814.5	1815.4	1798.2	1797.3	1803.6	1929.3	2335.2	3050.3	3669.6	3706.7
30°	2151.7	2138.1	2072.1	2000.7	1968.2	2043.2	2393.1	3179.6	4024.9	4090.9
32.5°	2671.5	2651.6	2530.5	2359.6	2187.9	2226.7	2497.0	3327.0	4411.9	4531.2
35°	3235.7	3230.2	3103.7	2849.6	2549.5	2488.0	2666.1	3520.5	4834.1	5023.9
37.5°	3760.0	3757.3	3685.0	3385.8	3020.5	2852.3	2937.3	3773.6	5286.1	5560.9
40°	4239.2	4247.3	4175.0	3907.4	3539.4	3319.8	3306.2	4086.4	5788.8	6145.9
42.5°	4653.3	4662.3	4589.1	4391.1	4052.1	3836.9	3759.1	4469.7	6279.7	6774.2
45°	4934.4	4990.5	4979.6	4821.4	4578.2	4354.9	4303.4	4950.7	6839.3	7440.5
47.5°	5014.0	5065.5	5146.9	5168.6	5020.3	4800.6	4862.1	5530.2	7405.3	8107.7
50°	4817.8	4865.7	5034.8	5259.9	5363.0	5295.2	5405.4	6151.3	7984.8	8773.1
52.5°	4430.9	4479.7	4693.0	5049.2	5469.6	5683.0	5950.6	6763.4	8546.2	9403.3
55°	3871.2	3922.8	4196.7	4599.9	5266.2	5843.0	6405.4	7374.5	9060.6	9970.1
57.5°	3110.0	3148.0	3432.8	3996.9	4754.5	5683.9	6740.8	8041.7	9545.2	10527.0
60°	2026.9	2060.4	2391.3	3020.5	3906.5	5152.3	6807.7	8785.8	10188.9	11251.2
62.5°	1348.0	1370.6	1566.8	2028.7	2751.1	4131.6	6416.2	9379.7	11132.7	12511.5
65°	924.9	947.5	1143.7	1465.5	1777.4	2733.0	5290.6	9301.1	11988.0	13512.3
67.5°	660.0	679.0	845.3	1149.1	1286.5	1587.6	3586.5	8295.8	11865.0	13550.2
70°	472.8	483.7	621.1	895.0	1022.5	953.8	1994.4	6344.8	10388.7	12512.4
72.5°	330.9	334.5	431.2	681.7	823.6	696.1	949.3	4230.2	7857.3	9820.9
75°	224.2	228.7	290.2	500.0	660.9	531.6	502.7	2268.3	4612.6	5436.2
77.5°	137.4	139.2	187.1	341.7	494.5	405.0	323.7	961.0	1784.6	1752.1
80°	77.8	77.8	119.3	212.5	337.2	261.3	226.9	408.6	565.0	496.3
82.5°	43.4	44.3	86.8	132.0	223.3	154.6	124.8	189.0	244.1	216.1
85°	18.1	19.9	53.3	62.4	106.7	76.8	50.6	79.6	90.4	80.5
87.5°	1.8	2.7	16.3	11.8	12.7	15.4	7.2	15.4	12.7	12.7
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°
2080.3	0°	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3	2080.3
2111.0	2.5°	2093.8	2080.3	2045.9	2006.1	1953.7	1928.4	1894.0	1870.5	1850.6	1852.4
2163.4	5°	2134.5	2100.2	2023.3	1927.5	1808.1	1723.2	1632.8	1570.4	1519.7	1508.9
2235.8	7.5°	2190.6	2136.3	2001.6	1828.9	1627.3	1474.5	1338.0	1250.3	1188.0	1168.1
2323.5	10°	2262.9	2184.2	1973.6	1705.1	1414.9	1220.5	1074.0	1005.3	962.8	948.4
2426.5	12.5°	2347.0	2239.4	1936.5	1554.1	1196.1	1008.9	915.8	881.5	867.9	863.4
2553.1	15°	2452.7	2308.1	1880.5	1375.1	1010.8	879.7	839.9	835.4	837.2	835.4
2705.0	17.5°	2578.4	2383.1	1789.2	1190.7	886.0	813.7	799.2	802.8	807.3	806.4
2874.9	20°	2715.8	2457.3	1672.5	1027.0	801.0	766.7	758.5	762.1	765.7	763.9
3071.1	22.5°	2872.2	2536.8	1543.3	899.6	744.1	723.3	714.2	715.1	715.1	711.5
3319.8	25°	3059.4	2624.5	1407.6	809.1	700.7	684.4	673.5	669.9	664.5	653.6
3621.7	27.5°	3282.7	2717.6	1277.5	745.9	666.3	650.9	638.3	629.2	615.7	597.6
3984.2	30°	3534.0	2830.6	1167.2	706.1	639.2	623.8	609.3	595.8	575.9	553.3
4401.0	32.5°	3829.6	2951.8	1086.7	679.9	614.8	598.5	581.3	565.0	543.3	520.7
4869.3	35°	4182.2	3098.3	1039.7	661.8	595.8	574.1	555.1	537.0	520.7	500.9
5378.3	37.5°	4564.7	3253.8	1025.2	652.7	583.1	549.7	528.0	515.3	513.5	501.8
5928.9	40°	4983.2	3438.2	1036.1	647.3	569.6	526.2	502.7	500.0	504.5	483.7
6517.5	42.5°	5426.2	3657.0	1054.1	641.0	550.6	502.7	480.1	480.1	476.4	447.5
7139.5	45°	5905.4	3909.2	1072.2	625.6	528.0	479.2	462.0	455.7	440.3	412.3
7765.1	47.5°	6388.2	4166.0	1085.8	597.6	500.9	459.3	443.9	429.4	406.8	381.5
8378.9	50°	6846.5	4396.5	1071.3	556.0	470.1	440.3	424.0	404.1	379.7	362.5
8960.3	52.5°	7256.1	4596.3	1009.8	507.2	437.6	420.4	405.9	385.1	365.2	347.2
9484.6	55°	7612.3	4758.1	901.4	461.1	408.6	403.2	388.8	362.5	335.4	320.0
10004.5	57.5°	7954.0	4881.1	765.7	423.1	382.4	384.2	362.5	339.0	313.7	297.4
10705.1	60°	8408.8	5045.6	628.3	387.8	354.4	359.8	336.3	319.1	287.5	266.7
11906.6	62.5°	9135.6	5301.5	499.0	344.5	321.8	323.7	313.7	292.9	254.9	230.5
12797.1	65°	9712.4	5207.5	393.3	297.4	284.8	287.5	287.5	264.9	224.2	196.2
12845.1	67.5°	9647.4	4458.9	313.7	251.3	249.5	251.3	257.7	238.7	198.9	176.3
11866.9	70°	8887.0	3546.7	251.3	208.8	217.0	212.5	230.5	217.9	179.0	156.4
9199.8	72.5°	7251.6	2554.9	191.7	172.7	166.3	173.6	207.9	196.2	149.2	123.9
4872.9	75°	4237.4	1363.3	142.8	136.5	120.2	144.7	184.4	167.3	113.9	91.3
1493.5	77.5°	1379.6	475.5	104.9	100.4	89.5	116.6	157.3	141.0	93.1	72.3
437.6	80°	369.8	143.7	71.4	66.0	57.9	86.8	124.8	112.1	66.9	47.0
188.0	82.5°	148.3	60.6	41.6	37.1	31.6	59.7	98.5	90.4	49.7	29.8
58.8	85°	47.9	19.9	15.4	11.8	14.5	37.1	58.8	61.5	35.3	15.4
9.0	87.5°	6.3	2.7	2.7	3.6	2.7	6.3	18.1	17.2	9.9	1.8
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

<u>180°</u>
2080.3
1834.4
1484.5
1148.2
937.5
860.7
834.5
804.6
763.0
709.7
651.8
595.8
551.5
521.6
499.0
500.9
484.6
447.5
411.4
380.6
359.8
345.4
318.2
295.6
264.0
228.7
193.5
172.7
153.7
121.1
88.6
69.6
46.1
29.8
11.8
0.0
0.0

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