

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: P947868

Luminaire Tested: **GALN-SB3A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12318 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

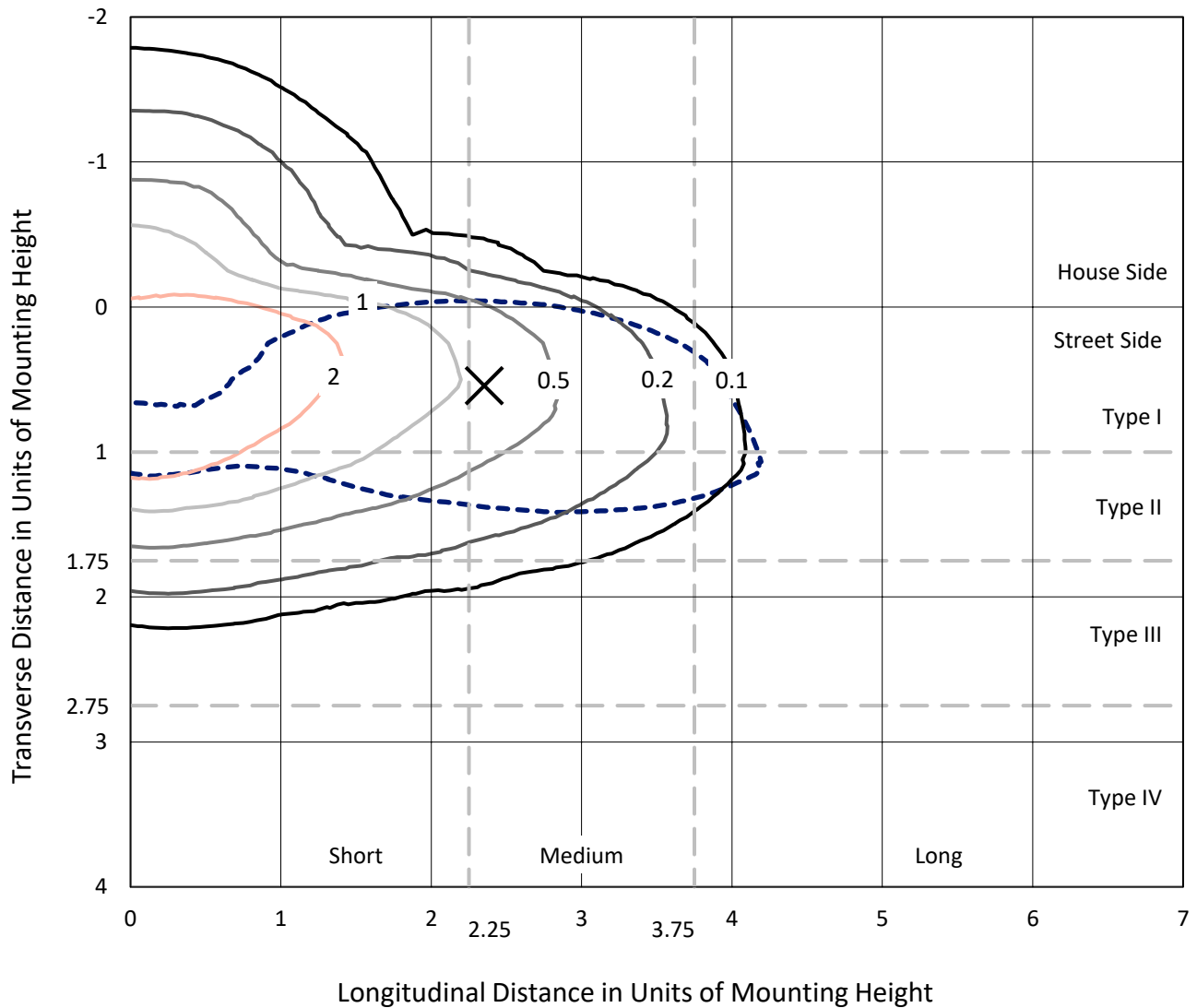
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

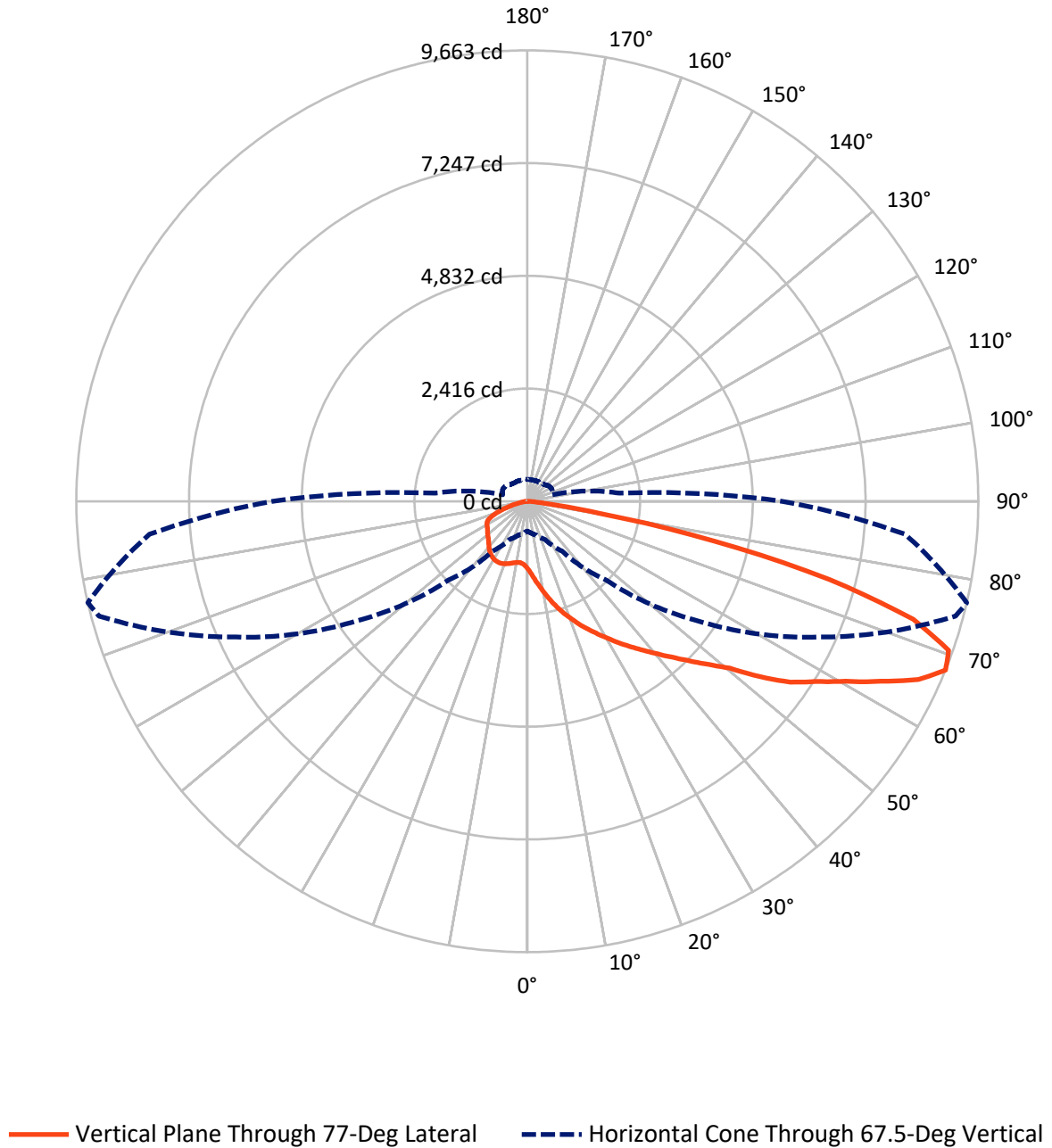
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2330.1	0.0	2330.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9987.9	0.0	9987.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	12318.0	0.0	12318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	1.3
10°-20°	556.5	4.5
20°-30°	1050.8	8.5
30°-40°	1692.8	13.7
40°-50°	2315.5	18.8
50°-60°	2611.9	21.2
60°-70°	2437.9	19.8
70°-80°	1336.4	10.8
80°-90°	161.2	1.3
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°	12318.0	100.0
0°-180°	12318.0	100.0

Coefficient of Utilization



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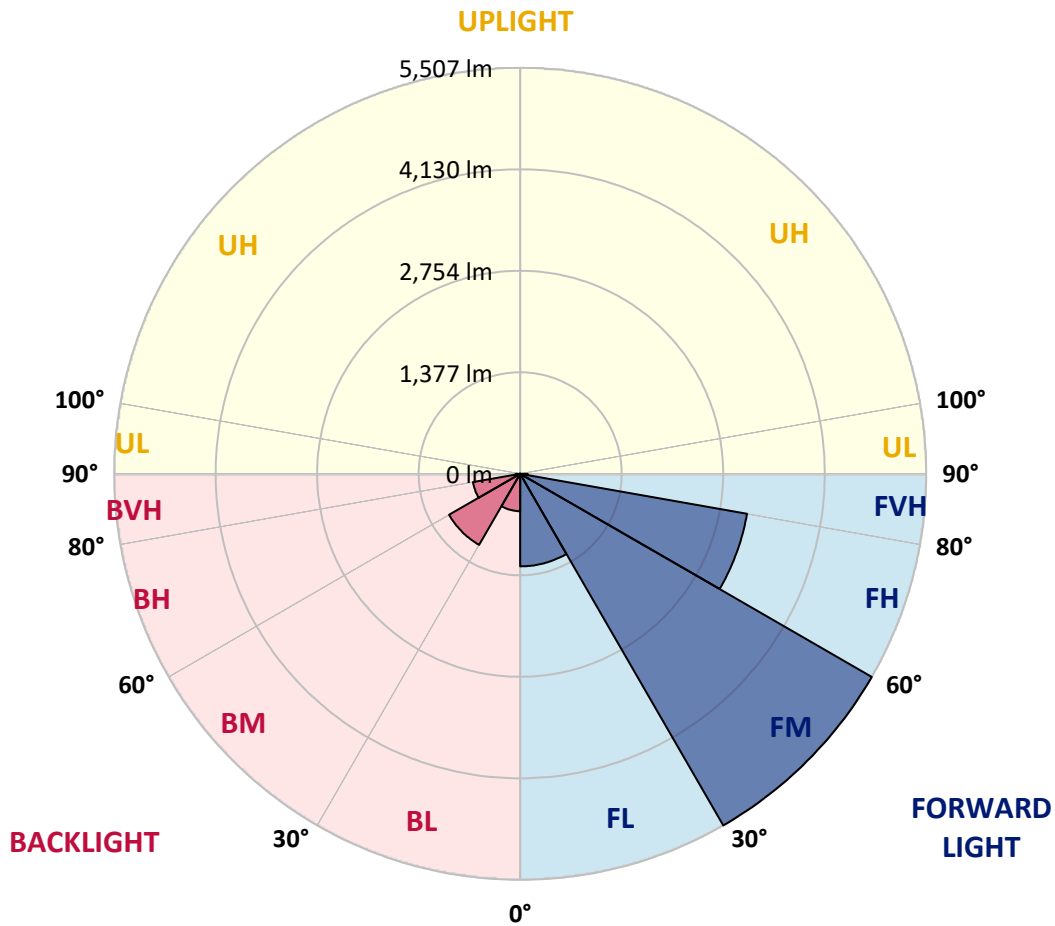
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.7	10.2			
FM (30°-60°)	5507.2	44.7			
FH (60°-80°)	3124.2	25.4			G2/5000
FVH (80°-90°)	100.8	0.8			G2/225
BL (0°-30°)	506.6	4.1	B2/1000		
BM (30°-60°)	1113.0	9.0	B2/2500		
BH (60°-80°)	650.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	60.4	0.5			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°	77°
0°	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3
2.5°	1809.6	1822.3	1806.4	1806.4	1753.0	1725.1	1671.6	1631.0	1557.8	1545.1
5°	2139.0	2154.9	2132.6	2123.1	2060.1	2002.3	1912.6	1824.2	1693.9	1680.5
7.5°	2394.0	2414.3	2394.6	2384.4	2328.5	2263.6	2158.7	2035.4	1851.6	1825.5
10°	2601.9	2605.1	2598.7	2602.5	2558.7	2505.2	2397.8	2254.1	2024.5	1988.9
12.5°	2719.5	2734.1	2746.9	2769.8	2762.1	2729.1	2632.4	2460.7	2207.7	2161.9
15°	2774.8	2800.3	2828.9	2881.7	2924.3	2932.5	2858.8	2682.6	2394.0	2338.7
17.5°	2794.6	2818.7	2863.9	2940.2	3031.7	3093.4	3060.3	2898.2	2578.4	2514.8
20°	2894.4	2901.4	2928.7	3001.2	3100.4	3202.8	3227.6	3105.5	2760.9	2689.0
22.5°	3108.0	3094.0	3101.7	3134.7	3205.9	3305.1	3361.7	3288.6	2948.4	2865.8
25°	3460.9	3420.2	3379.5	3341.4	3377.6	3433.6	3497.8	3471.7	3144.9	3040.0
27.5°	3906.7	3857.1	3767.4	3642.1	3598.3	3618.0	3646.6	3641.5	3326.8	3220.6
30°	4345.4	4287.5	4180.7	3999.5	3883.8	3831.6	3810.0	3795.4	3524.5	3411.3
32.5°	4695.7	4650.0	4545.0	4342.2	4174.3	4085.3	4013.5	3961.3	3731.2	3618.0
35°	5002.2	4959.6	4839.4	4618.2	4435.7	4340.9	4246.8	4135.6	3946.1	3831.6
37.5°	5282.0	5239.4	5074.7	4844.5	4660.8	4595.3	4511.3	4322.5	4161.6	4053.5
40°	5458.8	5449.2	5295.3	5034.6	4843.9	4811.5	4783.5	4539.3	4400.7	4300.2
42.5°	5503.9	5524.9	5402.8	5188.5	5006.7	4980.6	5046.1	4784.8	4669.0	4573.0
45°	5395.2	5455.6	5375.5	5229.9	5122.4	5108.4	5278.8	5053.1	4966.0	4878.2
47.5°	5119.9	5222.2	5189.2	5168.8	5153.6	5214.0	5483.6	5337.9	5302.3	5226.0
50°	4564.1	4758.1	4815.9	4944.4	5091.9	5296.0	5669.9	5648.9	5695.3	5618.4
52.5°	3603.4	3870.4	4206.1	4527.9	4902.4	5268.6	5874.6	6095.2	6291.1	6249.1
55°	2974.5	3094.7	3352.8	3942.9	4534.9	5153.6	5966.8	6455.8	6882.4	6844.9
57.5°	2491.3	2598.7	2757.7	3250.5	3979.1	4892.2	6024.0	6675.8	7287.5	7283.6
60°	1973.0	2086.9	2249.6	2598.7	3329.9	4440.8	6011.3	6926.3	7804.4	7836.2
62.5°	1388.1	1513.3	1693.9	2019.5	2666.7	3855.8	5751.9	7107.5	8412.9	8499.4
65°	912.4	995.1	1131.2	1412.2	1987.0	3103.6	5256.6	7131.0	9064.0	9210.3
67.5°	639.7	671.5	751.6	904.2	1309.8	2380.0	4467.5	6887.5	9498.3	9663.0
70°	499.1	515.0	555.7	616.8	822.8	1600.4	3423.4	6254.2	9405.5	9577.2
72.5°	431.1	446.4	461.6	469.3	551.9	988.1	2318.9	5229.2	8531.2	8647.5
75°	391.0	394.9	407.6	405.0	420.9	640.9	1338.5	3810.0	6731.1	6691.0
77.5°	328.7	333.8	354.8	351.6	373.9	438.1	695.0	2458.8	4363.8	4091.7
80°	278.5	281.0	303.9	300.1	324.9	317.3	354.8	1253.3	1851.0	1568.0
82.5°	96.6	119.5	232.1	239.1	248.0	192.0	204.7	511.2	565.3	433.0
85°	47.1	50.2	118.3	167.9	167.2	96.6	99.8	182.5	178.0	139.9
87.5°	7.6	9.5	14.0	65.5	52.1	25.4	34.3	35.6	36.9	31.8
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°
1445.3	0°	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3	1445.3
1496.8	2.5°	1461.2	1429.4	1362.6	1300.9	1252.6	1206.2	1180.1	1157.9	1145.2	1142.6
1566.7	5°	1500.6	1435.1	1313.7	1211.3	1144.5	1094.9	1068.9	1052.3	1044.1	1039.0
1660.8	7.5°	1557.2	1461.2	1288.2	1171.9	1101.9	1066.3	1053.0	1050.4	1049.8	1050.4
1774.7	10°	1635.4	1503.8	1285.7	1162.3	1103.8	1084.1	1083.5	1084.1	1086.7	1087.3
1898.6	12.5°	1720.0	1547.7	1295.9	1170.6	1128.0	1117.2	1115.3	1114.6	1116.6	1117.8
2023.9	15°	1812.2	1605.5	1313.0	1188.4	1154.7	1143.3	1141.3	1137.5	1136.9	1136.3
2155.5	17.5°	1906.9	1662.7	1332.1	1207.5	1171.9	1156.0	1149.0	1140.1	1133.1	1131.2
2291.6	20°	2002.9	1719.3	1345.5	1217.0	1173.1	1150.9	1136.9	1121.6	1109.6	1102.6
2428.9	22.5°	2105.3	1778.5	1353.7	1214.5	1161.7	1131.2	1105.7	1087.9	1069.5	1057.4
2567.6	25°	2205.1	1830.0	1353.1	1201.1	1139.4	1100.7	1068.2	1045.3	1019.9	1007.2
2710.6	27.5°	2301.1	1876.4	1337.2	1177.6	1107.6	1064.4	1025.6	998.3	973.5	961.4
2855.0	30°	2400.3	1915.2	1312.4	1143.3	1070.1	1022.4	979.8	956.3	934.1	922.6
3007.6	32.5°	2498.9	1950.8	1277.4	1100.7	1026.9	981.1	939.1	917.5	904.2	904.2
3171.6	35°	2603.2	1975.6	1231.0	1051.1	981.1	937.2	904.2	891.5	890.2	882.6
3345.2	37.5°	2713.2	1991.5	1174.4	1000.2	936.0	894.6	884.5	869.2	856.5	840.0
3536.0	40°	2828.9	2007.4	1106.4	947.4	888.3	865.4	860.9	840.6	804.3	763.7
3752.1	42.5°	2969.4	2018.2	1035.8	894.6	838.0	830.4	836.8	801.8	743.9	713.4
4012.8	45°	3132.2	2036.0	970.9	842.5	786.5	786.5	813.3	767.5	719.8	700.7
4310.4	47.5°	3343.3	2077.3	910.5	785.3	738.9	751.6	761.1	726.1	699.4	675.9
4672.9	50°	3648.5	2176.5	848.2	727.4	702.6	728.0	714.7	694.3	663.2	644.1
5248.9	52.5°	4027.5	2235.0	792.9	675.3	671.5	696.9	677.8	658.7	635.2	609.8
5685.8	55°	4285.6	2245.8	746.5	637.1	650.5	647.9	640.9	623.8	611.1	577.4
6116.9	57.5°	4574.3	2267.4	708.3	614.2	637.1	609.1	606.6	592.0	575.4	552.6
6642.7	60°	4919.6	2301.1	675.3	605.3	625.7	583.7	571.0	565.3	548.7	537.3
7275.4	62.5°	5296.0	2331.7	641.6	606.6	612.3	558.9	539.8	537.9	527.8	523.9
7869.3	65°	5552.9	2248.4	599.6	605.3	591.3	533.5	509.3	508.7	500.4	499.1
8126.8	67.5°	5463.2	1984.5	543.0	587.5	569.7	508.0	481.3	478.8	468.0	468.6
7857.8	70°	5014.3	1608.1	464.8	543.7	543.0	485.2	452.1	443.8	429.2	431.7
6832.2	72.5°	4172.4	1191.6	359.9	470.5	500.4	464.2	418.4	405.0	386.6	389.1
5043.6	75°	3013.3	810.1	262.0	358.0	435.6	439.4	385.3	362.4	340.2	344.0
2807.3	77.5°	1541.9	459.1	192.7	246.7	342.1	399.3	355.4	324.9	319.8	355.4
809.4	80°	503.0	230.2	133.5	173.0	224.5	326.8	311.6	276.6	275.3	283.6
169.8	82.5°	150.1	97.3	85.8	113.8	124.0	250.5	269.0	209.2	179.9	189.5
56.6	85°	51.5	47.1	49.0	56.6	59.1	146.9	188.2	138.6	131.0	144.3
12.7	87.5°	12.1	16.5	14.0	12.7	12.7	35.6	73.1	57.9	80.1	53.4
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>
1445.3
1142.6
1038.3
1052.3
1087.9
1118.5
1135.6
1133.1
1105.1
1058.1
1007.2
960.8
922.0
904.8
880.7
837.4
757.9
714.1
703.9
675.3
642.2
604.7
578.0
544.9
540.5
523.9
498.5
468.6
434.3
388.5
345.3
350.4
243.5
195.8
142.4
51.5
0.0

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