

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: P939647

Luminaire Tested: **GALN-SB2B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10126 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

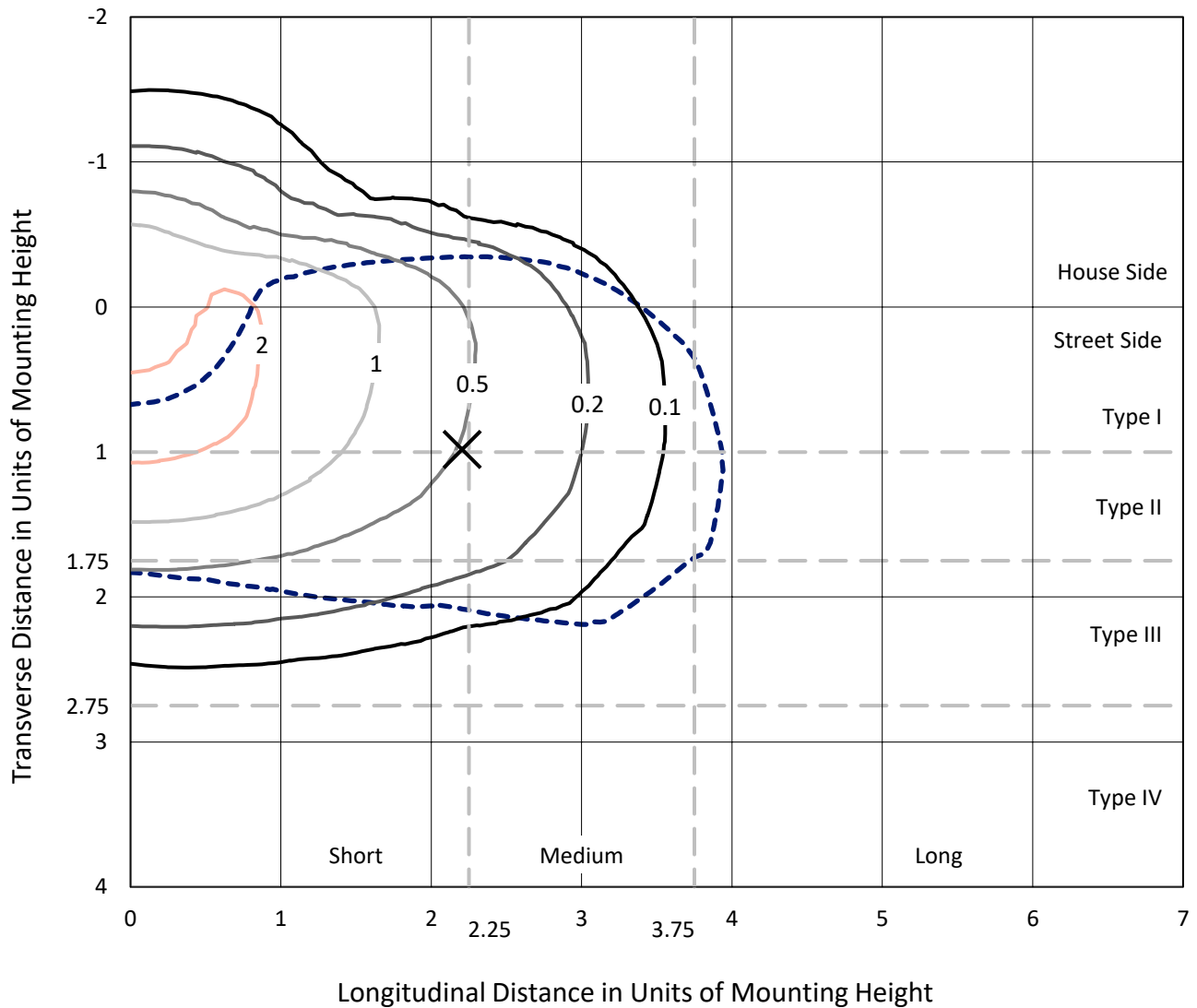
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

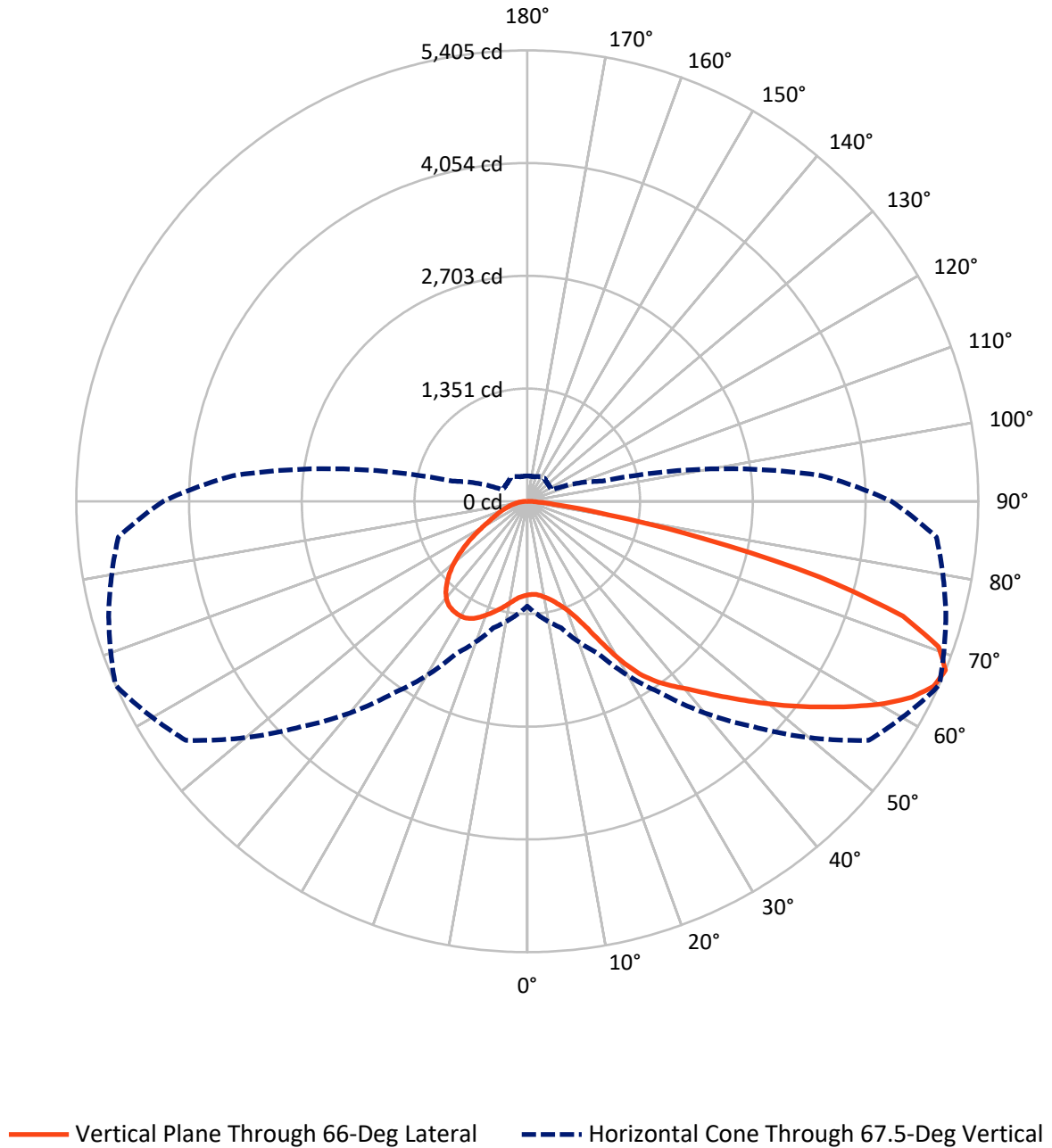
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.8	0.0	2517.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7608.2	0.0	7608.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	10126.0	0.0	10126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	1.1
10°-20°	367.9	3.6
20°-30°	709.1	7.0
30°-40°	1243.3	12.3
40°-50°	1848.4	18.3
50°-60°	2343.0	23.1
60°-70°	2292.6	22.6
70°-80°	1093.6	10.8
80°-90°	116.9	1.2
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°	10126.0	100.0
0°-180°	10126.0	100.0

Coefficient of Utilization



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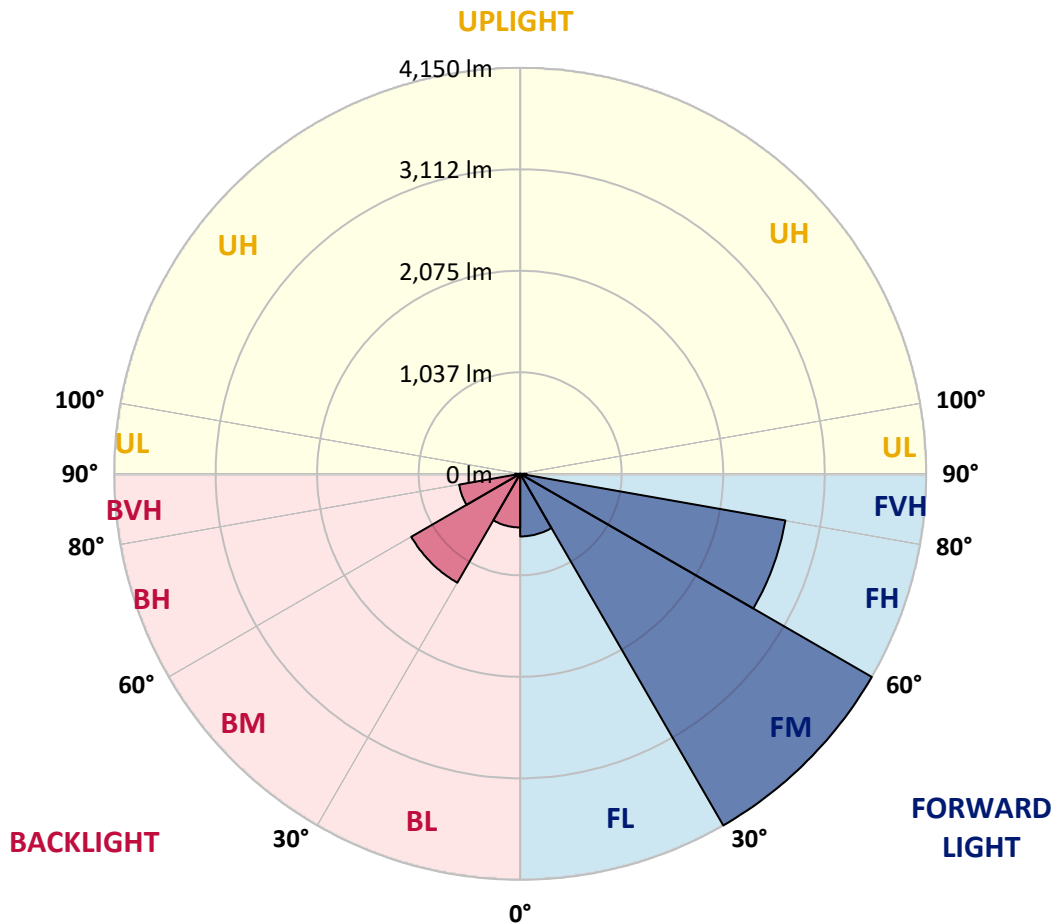
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.9	6.3			
FM (30°-60°)	4149.6	41.0			
FH (60°-80°)	2752.5	27.2			G2/5000
FVH (80°-90°)	66.3	0.7			G1/100
BL (0°-30°)	548.5	5.4	B2/1000		
BM (30°-60°)	1285.1	12.7	B2/2500		
BH (60°-80°)	633.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	50.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1111.4	1117.8	1116.2	1113.5	1113.0	1114.1	1115.7	1117.3	1116.7	1119.4
5°	1108.2	1114.6	1114.1	1114.1	1116.2	1120.4	1123.1	1125.8	1123.1	1126.3
7.5°	1110.3	1115.1	1117.3	1119.4	1124.7	1132.7	1139.1	1144.9	1141.7	1145.5
10°	1137.5	1141.2	1143.3	1143.3	1147.0	1156.1	1162.5	1173.1	1170.5	1176.3
12.5°	1187.0	1190.7	1190.7	1188.5	1191.2	1197.1	1199.2	1210.9	1206.1	1215.7
15°	1247.6	1255.0	1249.2	1245.5	1246.5	1252.4	1251.9	1260.9	1256.1	1264.1
17.5°	1314.6	1324.2	1314.6	1314.1	1312.0	1318.4	1318.9	1326.9	1318.4	1324.2
20°	1393.9	1407.2	1399.2	1401.9	1397.1	1399.8	1402.4	1414.1	1400.8	1405.1
22.5°	1505.6	1521.6	1513.1	1523.2	1520.0	1517.9	1517.3	1538.1	1517.3	1518.9
25°	1668.4	1687.6	1672.7	1686.5	1686.5	1693.4	1701.4	1728.0	1693.4	1683.3
27.5°	1908.9	1928.1	1898.8	1907.3	1904.7	1921.7	1913.2	1979.1	1941.9	1925.4
30°	2198.3	2232.4	2177.1	2174.9	2172.3	2199.4	2211.6	2255.3	2217.5	2201.0
32.5°	2511.2	2546.8	2480.8	2461.7	2451.6	2468.1	2458.0	2493.1	2467.0	2441.5
35°	2842.1	2877.2	2814.4	2777.2	2736.7	2702.2	2666.0	2675.0	2650.6	2611.7
37.5°	3154.9	3219.3	3152.8	3112.9	3038.4	2970.8	2869.7	2827.7	2804.8	2769.2
40°	3473.6	3510.3	3459.8	3425.7	3344.8	3239.0	3077.2	2988.4	2957.5	2923.0
42.5°	3708.2	3743.3	3716.2	3692.8	3629.5	3506.6	3297.5	3186.3	3141.6	3102.8
45°	3894.4	3920.5	3903.5	3912.0	3884.9	3765.7	3525.7	3398.6	3352.3	3304.9
47.5°	3969.4	3997.1	4024.2	4074.8	4121.1	4033.3	3771.0	3628.4	3579.5	3531.1
50°	3960.9	3989.1	4067.9	4175.3	4319.0	4289.7	4029.6	3873.2	3827.9	3772.6
52.5°	3892.8	3924.8	4025.8	4204.6	4433.4	4481.8	4292.9	4125.9	4083.3	4017.3
55°	3714.1	3733.2	3884.9	4138.1	4460.5	4615.9	4551.0	4395.1	4352.5	4260.5
57.5°	3382.6	3410.3	3631.1	3958.8	4392.4	4706.8	4777.6	4678.1	4637.1	4504.7
60°	2950.1	2994.2	3247.0	3657.7	4219.0	4706.3	4983.5	4956.4	4922.3	4745.1
62.5°	2460.6	2511.7	2754.8	3232.1	3915.7	4572.8	5112.2	5189.4	5171.8	4967.0
65°	1889.8	1924.9	2166.9	2681.4	3443.8	4286.0	5127.1	5348.5	5351.7	5135.6
67.5°	1258.2	1359.3	1569.5	2012.1	2811.8	3817.3	4996.3	5374.5	5405.4	5193.6
70°	614.0	747.0	952.9	1307.7	2012.1	3098.5	4654.2	5160.7	5229.3	5024.5
72.5°	254.8	297.9	410.2	645.3	1155.0	2090.9	3966.8	4580.7	4707.9	4452.0
75°	171.8	186.2	234.6	330.9	526.2	1031.1	2860.7	3415.6	3620.4	3362.4
77.5°	132.5	141.5	170.8	231.4	312.8	390.0	1531.2	2058.4	2164.3	2003.6
80°	104.3	111.2	127.7	168.7	221.9	208.6	521.9	932.6	993.8	833.7
82.5°	90.4	93.1	91.5	114.4	147.4	121.8	171.3	344.2	379.9	275.6
85°	65.4	72.9	76.1	70.8	78.2	61.7	70.2	121.8	134.1	119.7
87.5°	26.6	39.4	48.4	45.8	28.7	17.6	21.8	35.6	41.0	44.7
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°
1123.1	0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
1123.6	2.5°	1124.2	1127.9	1130.6	1133.7	1135.9	1139.1	1145.5	1149.2	1149.7	1152.4
1132.2	5°	1134.3	1139.6	1145.5	1154.0	1163.5	1171.5	1183.8	1192.3	1195.5	1198.1
1152.9	7.5°	1156.1	1163.5	1174.2	1189.1	1202.9	1213.6	1228.4	1238.6	1248.7	1252.4
1185.9	10°	1188.5	1199.2	1214.6	1234.8	1249.7	1263.6	1279.0	1287.5	1297.6	1301.9
1225.3	12.5°	1229.0	1240.2	1260.4	1288.6	1302.4	1312.0	1317.3	1315.2	1317.3	1321.0
1272.6	15°	1275.3	1287.5	1310.4	1340.7	1350.3	1341.8	1330.1	1319.4	1317.8	1318.9
1330.1	17.5°	1330.1	1339.1	1365.7	1391.2	1384.3	1349.2	1323.7	1306.7	1298.1	1295.5
1403.5	20°	1406.7	1406.7	1428.5	1444.5	1398.2	1338.6	1298.7	1271.0	1253.5	1246.0
1503.5	22.5°	1499.8	1491.3	1505.1	1493.9	1395.5	1308.8	1253.5	1205.6	1179.0	1168.3
1643.4	25°	1617.9	1607.8	1604.1	1534.9	1376.4	1261.4	1171.5	1113.5	1090.1	1084.3
1845.1	27.5°	1796.1	1770.6	1722.2	1557.2	1341.2	1187.0	1075.8	1022.0	1008.7	1009.3
2104.2	30°	2033.4	1982.3	1863.7	1561.0	1283.8	1081.6	977.9	939.6	933.2	935.8
2321.8	32.5°	2253.1	2204.7	2008.4	1543.9	1195.5	978.4	890.1	864.5	855.0	858.2
2487.8	35°	2425.5	2412.2	2142.5	1520.0	1086.9	881.6	811.3	789.5	770.9	766.6
2644.2	37.5°	2588.3	2583.0	2243.0	1486.5	979.5	812.9	748.0	719.3	692.2	677.3
2817.1	40°	2767.1	2761.7	2309.0	1434.9	884.2	753.3	691.1	653.3	619.8	592.7
3012.9	42.5°	2968.2	2936.8	2340.4	1360.9	803.4	702.8	644.8	593.7	549.6	524.6
3234.2	45°	3187.9	3117.1	2339.9	1266.8	735.3	656.5	595.3	523.0	482.0	458.6
3461.4	47.5°	3420.9	3289.5	2311.1	1162.5	669.3	605.4	518.7	463.4	436.3	421.9
3708.2	50°	3661.4	3450.7	2262.2	1042.8	601.7	547.5	470.8	433.1	412.3	399.0
3953.0	52.5°	3887.5	3597.0	2203.1	907.1	533.1	491.1	449.6	420.3	398.5	383.6
4190.2	55°	4097.7	3723.1	2119.6	768.2	477.2	453.3	439.5	415.0	390.0	372.4
4431.2	57.5°	4284.4	3805.1	1975.4	637.9	437.3	427.2	428.8	405.9	377.2	362.3
4668.5	60°	4439.8	3865.2	1762.1	517.1	404.9	401.7	412.3	388.9	355.4	338.4
4869.1	62.5°	4532.9	3864.1	1500.3	423.5	377.2	378.3	390.5	367.6	333.6	317.6
4973.9	65°	4524.9	3769.4	1213.0	362.3	350.6	351.7	367.6	344.2	315.5	305.9
4921.2	67.5°	4364.7	3538.5	930.5	322.4	321.3	326.1	344.8	328.3	304.3	303.3
4607.3	70°	3931.1	3059.2	670.4	290.5	291.0	297.9	322.4	318.2	298.5	300.6
3873.7	72.5°	3152.3	2332.4	450.1	257.0	257.5	268.7	301.1	310.2	292.6	320.8
2748.4	75°	2099.4	1454.6	289.4	221.3	221.9	236.2	282.5	294.7	276.7	319.7
1430.1	77.5°	1008.7	653.9	209.6	186.2	186.2	199.5	244.2	263.9	235.7	248.5
459.7	80°	348.5	245.8	164.9	150.0	146.8	155.9	205.9	228.8	203.2	187.3
150.0	82.5°	137.3	127.7	132.5	116.5	105.9	111.7	160.1	188.9	149.5	135.1
84.6	85°	78.7	83.0	93.6	77.1	61.2	68.6	117.6	135.7	112.8	99.5
27.7	87.5°	21.3	29.3	43.1	39.9	27.7	29.3	55.9	75.0	64.9	50.0
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

<u>180°</u>
1123.1
1151.8
1197.6
1252.9
1304.0
1322.1
1322.6
1299.2
1244.4
1166.7
1085.3
1010.8
944.9
862.4
769.8
677.8
595.3
526.2
457.5
418.7
394.2
377.2
365.5
352.7
330.9
312.8
305.4
304.9
300.1
325.1
322.4
227.7
175.6
134.6
101.6
51.6
0.0

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