

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: P945642

Luminaire Tested: **GALN-SB1C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945642
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-SB1C-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8073 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

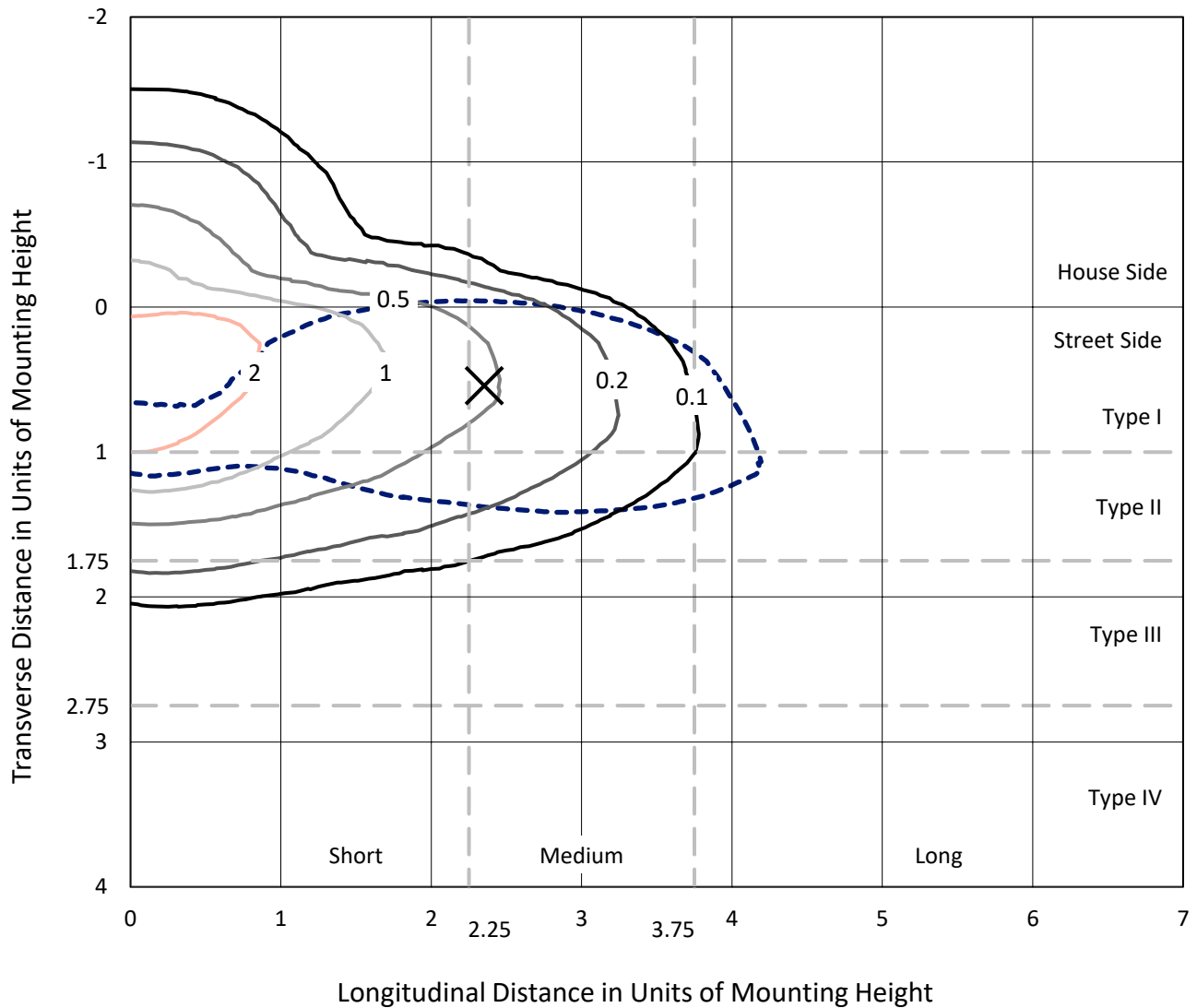
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

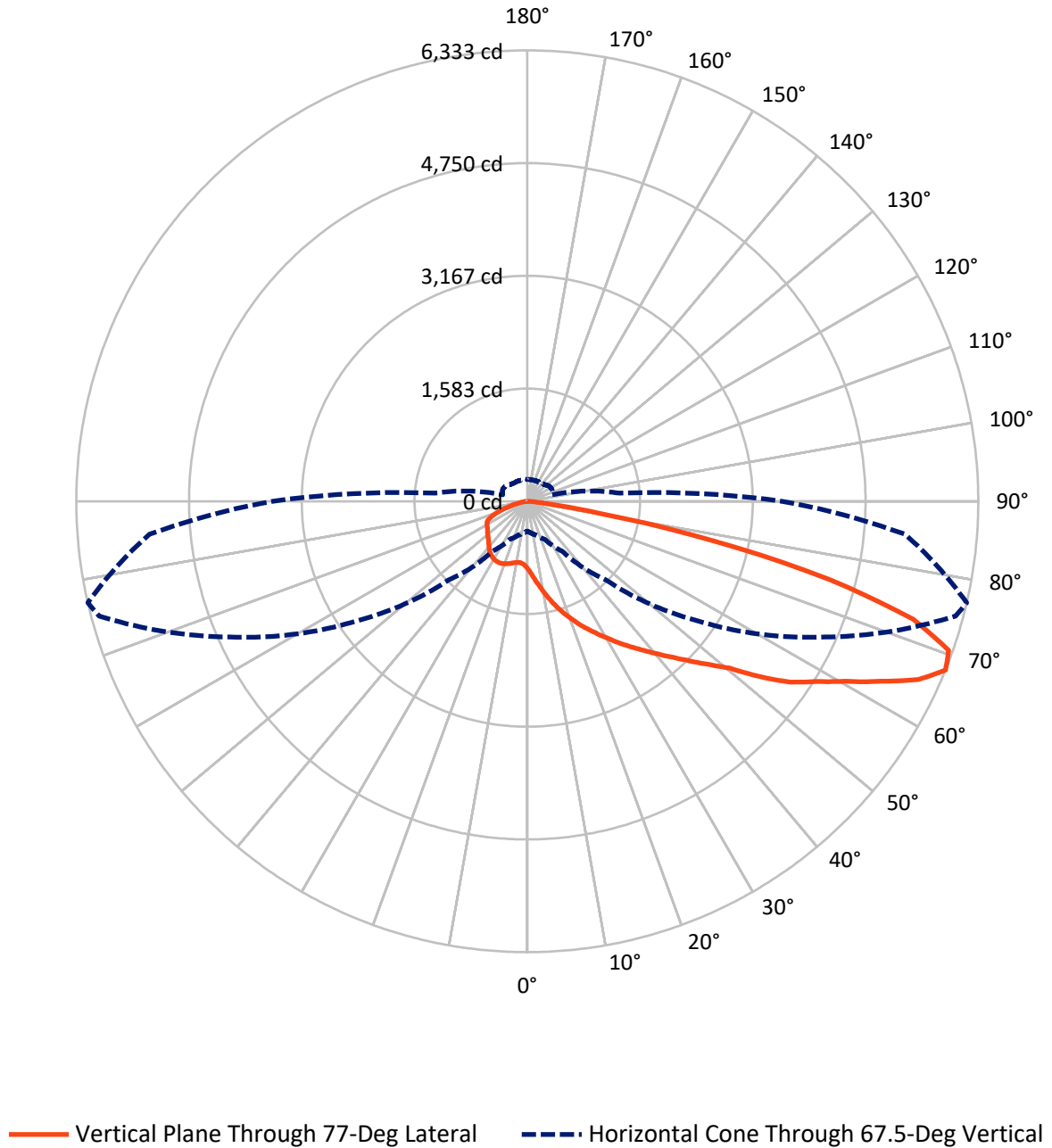
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1527.1	0.0	1527.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6545.9	0.0	6545.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	8073.0	0.0	8073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.3
10°-20°	364.8	4.5
20°-30°	688.7	8.5
30°-40°	1109.5	13.7
40°-50°	1517.5	18.8
50°-60°	1711.8	21.2
60°-70°	1597.8	19.8
70°-80°	875.8	10.8
80°-90°	105.6	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°	8073.0	100.0
0°-180°	8073.0	100.0

Coefficient of Utilization



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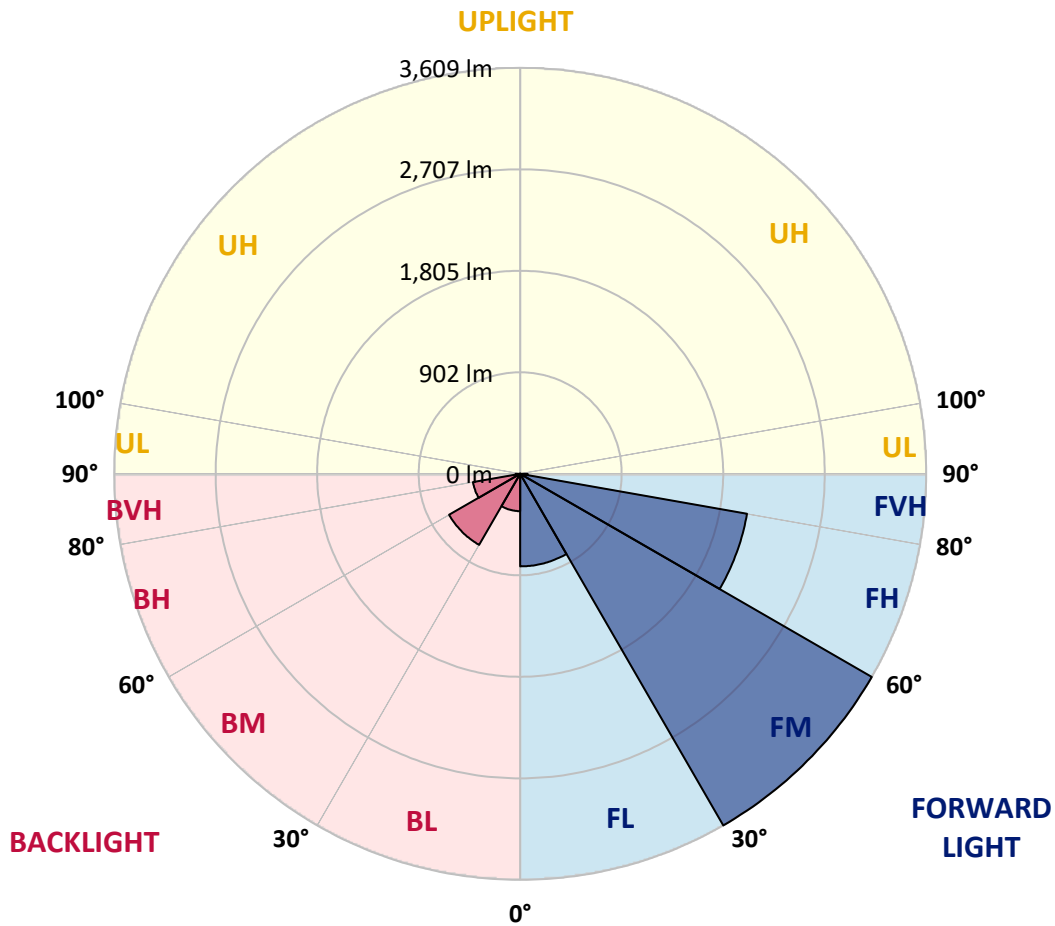
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.9	10.2			
FM (30°-60°)	3609.4	44.7			
FH (60°-80°)	2047.6	25.4			G2/5000
FVH (80°-90°)	66.1	0.8			G1/100
BL (0°-30°)	332.0	4.1	B1/500		
BM (30°-60°)	729.5	9.0	B1/1000		
BH (60°-80°)	426.0	5.3	B1/500		G1/500
BVH (80°-90°)	39.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2
2.5°	1186.0	1194.3	1183.9	1183.9	1148.9	1130.6	1095.6	1068.9	1021.0	1012.6
5°	1401.9	1412.3	1397.7	1391.4	1350.2	1312.3	1253.5	1195.6	1110.2	1101.4
7.5°	1569.0	1582.3	1569.4	1562.7	1526.0	1483.5	1414.8	1333.9	1213.5	1196.4
10°	1705.2	1707.3	1703.2	1705.7	1676.9	1641.9	1571.5	1477.3	1326.8	1303.5
12.5°	1782.3	1791.9	1800.2	1815.2	1810.2	1788.6	1725.2	1612.7	1446.9	1416.9
15°	1818.6	1835.3	1854.0	1888.6	1916.5	1921.9	1873.6	1758.2	1569.0	1532.7
17.5°	1831.5	1847.3	1876.9	1926.9	1986.9	2027.4	2005.7	1899.4	1689.8	1648.1
20°	1896.9	1901.5	1919.4	1966.9	2031.9	2099.0	2115.3	2035.3	1809.4	1762.3
22.5°	2036.9	2027.8	2032.8	2054.4	2101.1	2166.1	2203.2	2155.3	1932.3	1878.2
25°	2268.2	2241.6	2214.9	2189.9	2213.6	2250.3	2292.4	2275.3	2061.1	1992.4
27.5°	2560.4	2527.8	2469.1	2387.0	2358.2	2371.2	2389.9	2386.6	2180.3	2110.7
30°	2847.9	2810.0	2740.0	2621.2	2545.4	2511.2	2497.0	2487.4	2309.9	2235.7
32.5°	3077.5	3047.5	2978.7	2845.8	2735.8	2677.5	2630.4	2596.2	2445.3	2371.2
35°	3278.4	3250.4	3171.7	3026.7	2907.1	2845.0	2783.3	2710.4	2586.2	2511.2
37.5°	3461.7	3433.8	3325.9	3175.0	3054.6	3011.7	2956.7	2832.9	2727.5	2656.6
40°	3577.6	3571.3	3470.5	3299.6	3174.6	3153.4	3135.0	2975.0	2884.1	2818.3
42.5°	3607.2	3620.9	3540.9	3400.5	3281.3	3264.2	3307.1	3135.8	3060.0	2997.1
45°	3535.9	3575.5	3523.0	3427.6	3357.1	3348.0	3459.6	3311.7	3254.6	3197.1
47.5°	3355.5	3422.6	3400.9	3387.5	3377.5	3417.1	3593.8	3498.4	3475.1	3425.1
50°	2991.2	3118.3	3156.3	3240.4	3337.1	3470.9	3715.9	3702.2	3732.6	3682.2
52.5°	2361.6	2536.6	2756.6	2967.5	3212.9	3453.0	3850.1	3994.7	4123.1	4095.6
55°	1949.4	2028.2	2197.4	2584.1	2972.1	3377.5	3910.5	4231.0	4510.6	4486.0
57.5°	1632.7	1703.2	1807.3	2130.3	2607.9	3206.3	3948.0	4375.2	4776.1	4773.6
60°	1293.1	1367.7	1474.4	1703.2	2182.4	2910.4	3939.7	4539.4	5114.9	5135.7
62.5°	909.7	991.8	1110.2	1323.5	1747.7	2527.0	3769.7	4658.1	5513.7	5570.4
65°	598.0	652.2	741.4	925.5	1302.3	2034.0	3445.1	4673.6	5940.4	6036.2
67.5°	419.2	440.1	492.6	592.6	858.5	1559.8	2927.9	4514.0	6225.0	6333.0
70°	327.1	337.5	364.2	404.2	539.2	1048.9	2243.6	4098.9	6164.2	6276.7
72.5°	282.5	292.5	302.5	307.5	361.7	647.6	1519.8	3427.1	5591.2	5667.4
75°	256.3	258.8	267.1	265.5	275.9	420.1	877.2	2497.0	4411.4	4385.2
77.5°	215.4	218.8	232.5	230.4	245.0	287.1	455.5	1611.5	2860.0	2681.6
80°	182.5	184.2	199.2	196.7	212.9	207.9	232.5	821.4	1213.1	1027.6
82.5°	63.3	78.3	152.1	156.7	162.5	125.9	134.2	335.0	370.5	283.8
85°	30.8	32.9	77.5	110.0	109.6	63.3	65.4	119.6	116.7	91.7
87.5°	5.0	6.3	9.2	42.9	34.2	16.7	22.5	23.3	24.2	20.8
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°
947.2	0°	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2
981.0	2.5°	957.6	936.8	893.0	852.6	820.9	790.5	773.4	758.9	750.5	748.9
1026.8	5°	983.5	940.5	861.0	793.9	750.1	717.6	700.5	689.7	684.3	680.9
1088.5	7.5°	1020.6	957.6	844.3	768.0	722.2	698.8	690.1	688.4	688.0	688.4
1163.1	10°	1071.8	985.6	842.6	761.8	723.4	710.5	710.1	710.5	712.2	712.6
1244.3	12.5°	1127.2	1014.3	849.3	767.2	739.3	732.2	730.9	730.5	731.8	732.6
1326.4	15°	1187.7	1052.2	860.5	778.9	756.8	749.3	748.0	745.5	745.1	744.7
1412.7	17.5°	1249.8	1089.7	873.0	791.4	768.0	757.6	753.0	747.2	742.6	741.4
1501.9	20°	1312.7	1126.8	881.8	797.6	768.9	754.3	745.1	735.1	727.2	722.6
1591.9	22.5°	1379.8	1165.6	887.2	795.9	761.4	741.4	724.7	713.0	700.9	693.0
1682.7	25°	1445.2	1199.3	886.8	787.2	746.8	721.3	700.1	685.1	668.4	660.1
1776.5	27.5°	1508.1	1229.8	876.4	771.8	725.9	697.6	672.2	654.3	638.0	630.1
1871.1	30°	1573.1	1255.2	860.1	749.3	701.3	670.1	642.2	626.8	612.2	604.7
1971.1	32.5°	1637.7	1278.5	837.2	721.3	673.0	643.0	615.5	601.3	592.6	592.6
2078.6	35°	1706.1	1294.8	806.8	688.8	643.0	614.3	592.6	584.2	583.4	578.4
2192.4	37.5°	1778.2	1305.2	769.7	655.5	613.4	586.3	579.7	569.7	561.3	550.5
2317.4	40°	1854.0	1315.6	725.1	620.9	582.2	567.2	564.2	550.9	527.2	500.5
2459.1	42.5°	1946.1	1322.7	678.8	586.3	549.2	544.2	548.4	525.5	487.6	467.6
2629.9	45°	2052.8	1334.4	636.3	552.2	515.5	515.5	533.0	503.0	471.7	459.2
2825.0	47.5°	2191.1	1361.4	596.7	514.7	484.2	492.6	498.8	475.9	458.4	443.0
3062.5	50°	2391.2	1426.4	555.9	476.7	460.5	477.1	468.4	455.1	434.6	422.1
3440.1	52.5°	2639.5	1464.8	519.7	442.6	440.1	456.7	444.2	431.7	416.3	399.6
3726.3	55°	2808.7	1471.9	489.2	417.6	426.3	424.6	420.1	408.8	400.5	378.4
4008.9	57.5°	2997.9	1486.0	464.2	402.6	417.6	399.2	397.6	388.0	377.1	362.1
4353.5	60°	3224.2	1508.1	442.6	396.7	410.1	382.6	374.2	370.5	359.6	352.1
4768.2	62.5°	3470.9	1528.1	420.5	397.6	401.3	366.3	353.8	352.5	345.9	343.4
5157.4	65°	3639.3	1473.5	393.0	396.7	387.6	349.6	333.8	333.4	328.0	327.1
5326.1	67.5°	3580.5	1300.6	355.9	385.1	373.4	333.0	315.5	313.8	306.7	307.1
5149.9	70°	3286.3	1053.9	304.6	356.3	355.9	318.0	296.3	290.9	281.3	283.0
4477.7	72.5°	2734.5	780.9	235.9	308.4	328.0	304.2	274.2	265.5	253.4	255.0
3305.5	75°	1974.9	530.9	171.7	234.6	285.5	288.0	252.5	237.5	222.9	225.4
1839.8	77.5°	1010.6	300.9	126.3	161.7	224.2	261.7	232.9	212.9	209.6	232.9
530.5	80°	329.6	150.9	87.5	113.3	147.1	214.2	204.2	181.3	180.4	185.9
111.3	82.5°	98.3	63.8	56.3	74.6	81.3	164.2	176.3	137.1	117.9	124.2
37.1	85°	33.8	30.8	32.1	37.1	38.8	96.3	123.4	90.8	85.8	94.6
8.3	87.5°	7.9	10.8	9.2	8.3	8.3	23.3	47.9	37.9	52.5	35.0
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>
947.2
748.9
680.5
689.7
713.0
733.0
744.3
742.6
724.3
693.4
660.1
629.7
604.2
593.0
577.2
548.8
496.7
468.0
461.3
442.6
420.9
396.3
378.8
357.1
354.2
343.4
326.7
307.1
284.6
254.6
226.3
229.6
159.6
128.4
93.3
33.8
0.0

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