

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: P947763

Luminaire Tested: **GALN-SB3A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947763
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13709 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

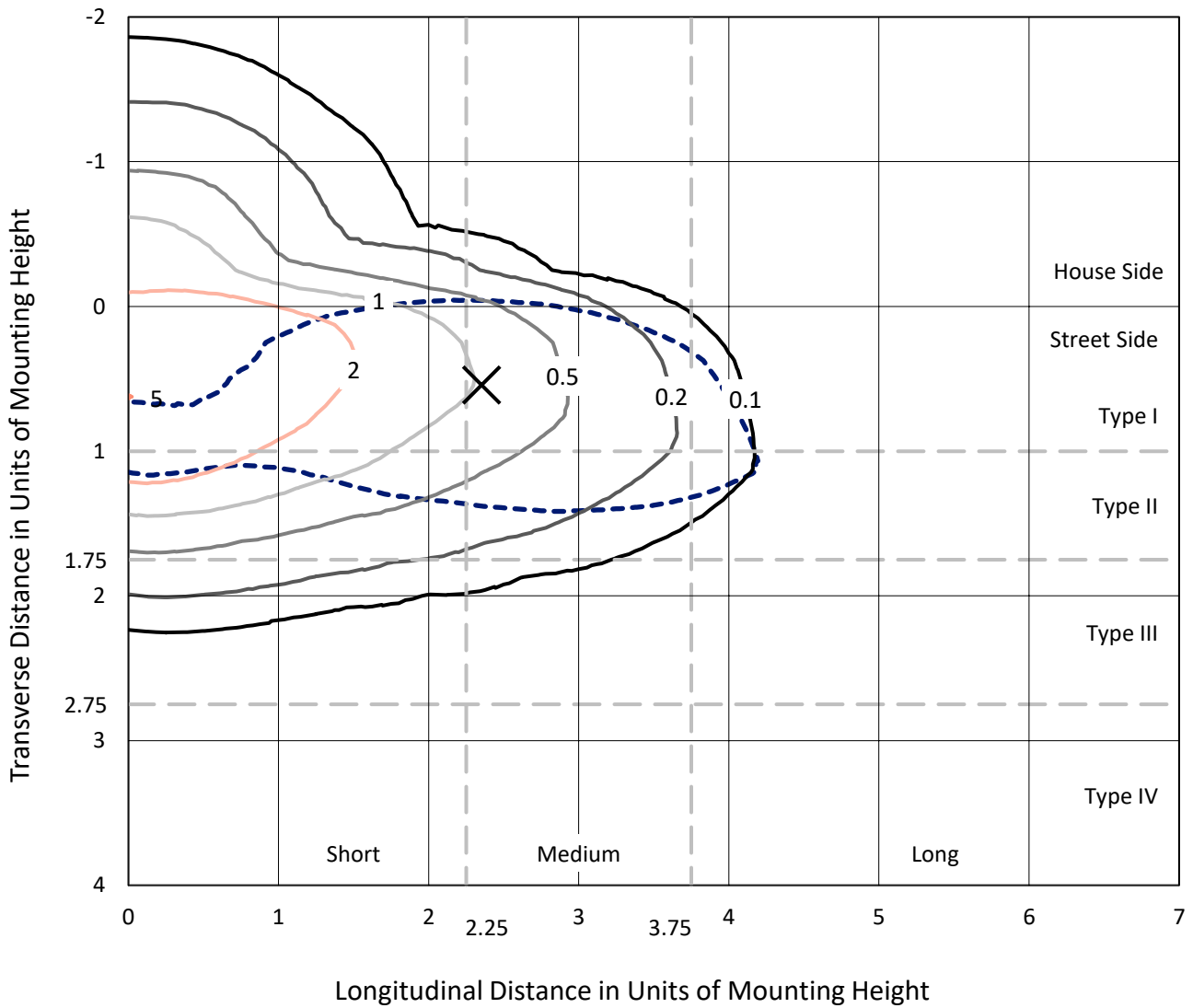
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

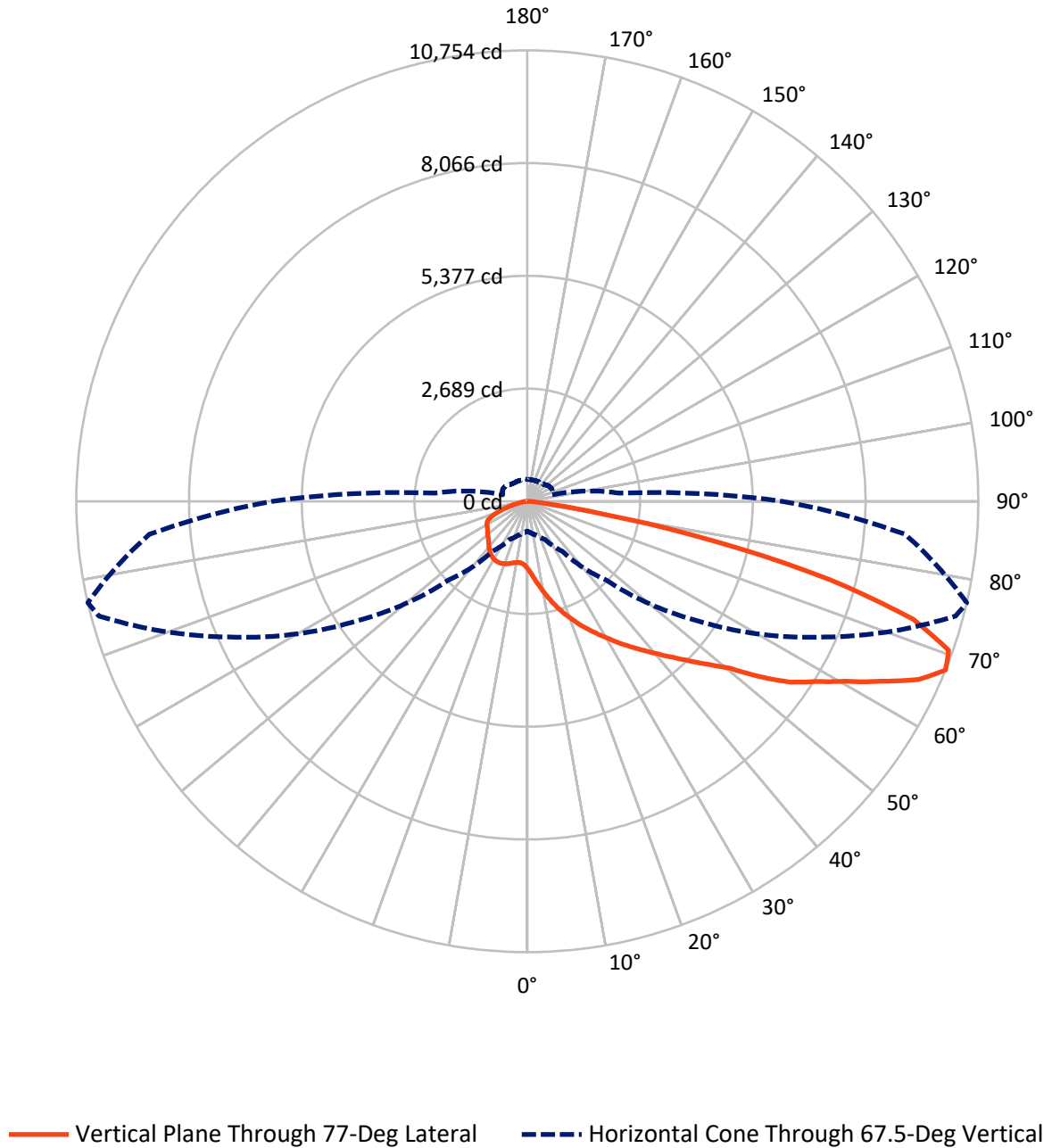
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2593.2	0.0	2593.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11115.8	0.0	11115.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	13709.0	0.0	13709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.3
10°-20°	619.4	4.5
20°-30°	1169.5	8.5
30°-40°	1884.0	13.7
40°-50°	2577.0	18.8
50°-60°	2906.9	21.2
60°-70°	2713.2	19.8
70°-80°	1487.3	10.8
80°-90°	179.4	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°	13709.0	100.0
0°-180°	13709.0	100.0

Coefficient of Utilization



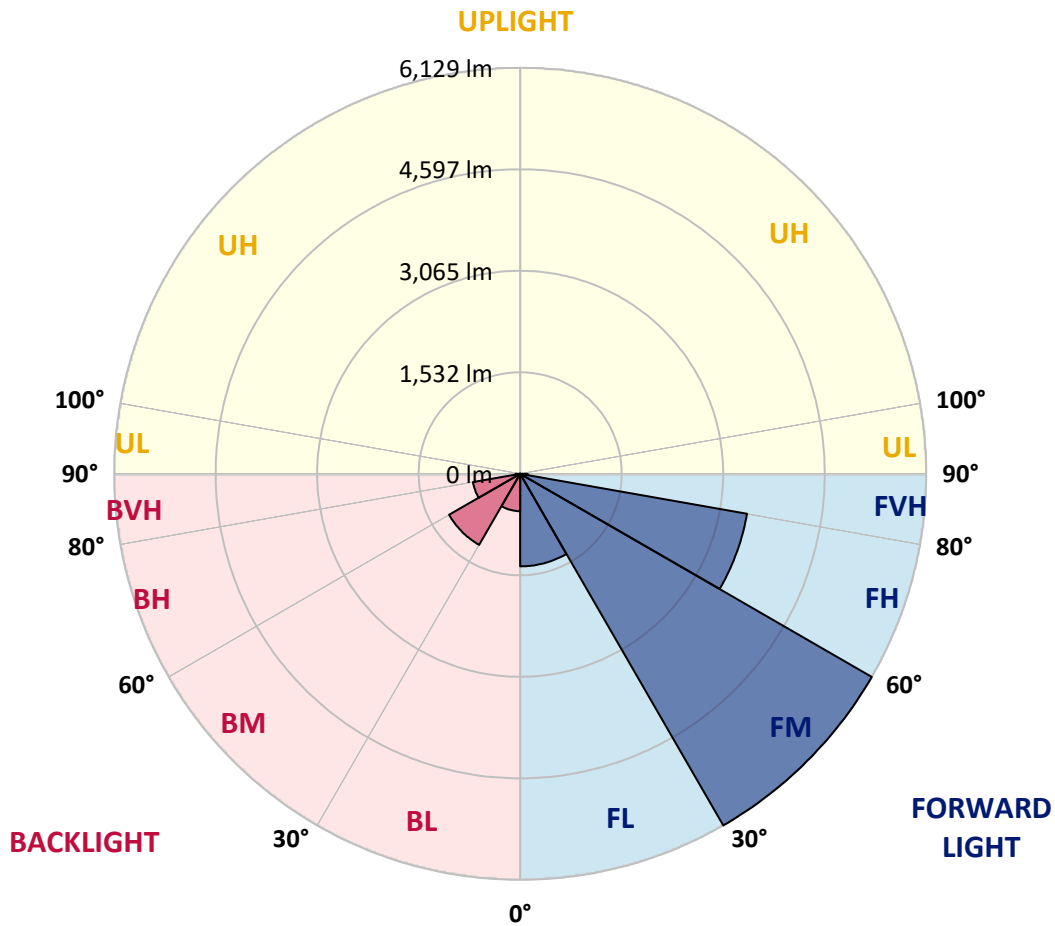
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.5	10.2			
FM (30°-60°)	6129.1	44.7			
FH (60°-80°)	3477.0	25.4			G2/5000
FVH (80°-90°)	112.2	0.8			G2/225
BL (0°-30°)	563.8	4.1	B2/1000		
BM (30°-60°)	1238.7	9.0	B2/2500		
BH (60°-80°)	723.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	67.2	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°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	2014.0	2028.1	2010.4	2010.4	1951.0	1919.9	1860.4	1815.1	1733.7	1719.6
5°	2380.5	2398.2	2373.5	2362.8	2292.8	2228.4	2128.6	2030.3	1885.2	1870.3
7.5°	2664.3	2687.0	2665.0	2653.7	2591.4	2519.2	2402.5	2265.2	2060.7	2031.7
10°	2895.7	2899.2	2892.2	2896.4	2847.6	2788.1	2668.6	2508.6	2253.2	2213.5
12.5°	3026.6	3042.9	3057.1	3082.5	3074.0	3037.2	2929.7	2738.6	2457.0	2406.0
15°	3088.2	3116.5	3148.3	3207.1	3254.5	3263.7	3181.6	2985.6	2664.3	2602.7
17.5°	3110.1	3137.0	3187.3	3272.2	3374.1	3442.7	3405.9	3225.5	2869.5	2798.8
20°	3221.2	3229.0	3259.4	3340.1	3450.5	3564.4	3592.0	3456.2	3072.6	2992.7
22.5°	3459.0	3443.4	3451.9	3488.7	3568.0	3678.4	3741.4	3660.0	3281.4	3189.4
25°	3851.7	3806.5	3761.2	3718.7	3759.0	3821.3	3892.8	3863.8	3500.0	3383.3
27.5°	4347.8	4292.6	4192.8	4053.4	4004.6	4026.5	4058.4	4052.7	3702.4	3584.3
30°	4836.1	4771.7	4652.8	4451.1	4322.3	4264.3	4240.2	4224.0	3922.5	3796.5
32.5°	5226.0	5175.1	5058.3	4832.6	4645.7	4546.7	4466.7	4408.7	4152.5	4026.5
35°	5567.1	5519.7	5385.9	5139.7	4936.6	4831.1	4726.4	4602.6	4391.7	4264.3
37.5°	5878.5	5831.0	5647.8	5391.6	5187.1	5114.2	5020.8	4810.6	4631.6	4511.3
40°	6075.2	6064.6	5893.3	5603.2	5390.9	5354.8	5323.7	5051.9	4897.7	4785.8
42.5°	6125.4	6148.8	6012.9	5774.4	5572.0	5543.0	5615.9	5325.1	5196.3	5089.4
45°	6004.4	6071.6	5982.5	5820.4	5700.8	5685.3	5874.9	5623.7	5526.8	5429.1
47.5°	5698.0	5811.9	5775.1	5752.5	5735.5	5802.7	6102.8	5940.7	5901.1	5816.2
50°	5079.5	5295.4	5359.8	5502.7	5666.9	5894.0	6310.1	6286.8	6338.4	6252.8
52.5°	4010.3	4307.5	4681.1	5039.2	5456.0	5863.6	6538.0	6783.5	7001.5	6954.8
55°	3310.4	3444.1	3731.4	4388.1	5047.0	5735.5	6640.6	7184.8	7659.6	7617.9
57.5°	2772.6	2892.2	3069.1	3617.5	4428.5	5444.7	6704.3	7429.6	8110.4	8106.1
60°	2195.8	2322.5	2503.7	2892.2	3706.0	4942.2	6690.1	7708.4	8685.7	8721.1
62.5°	1544.8	1684.2	1885.2	2247.5	2967.9	4291.2	6401.4	7910.1	9362.9	9459.2
65°	1015.5	1107.5	1258.9	1571.7	2211.4	3454.0	5850.2	7936.3	10087.6	10250.3
67.5°	711.9	747.3	836.4	1006.3	1457.8	2648.7	4972.0	7665.3	10570.9	10754.2
70°	555.5	573.2	618.5	686.4	915.7	1781.2	3810.0	6960.5	10467.6	10658.6
72.5°	479.8	496.8	513.8	522.2	614.2	1099.7	2580.8	5819.7	9494.6	9624.1
75°	435.2	439.5	453.6	450.8	468.5	713.3	1489.6	4240.2	7491.2	7446.6
77.5°	365.9	371.5	394.9	391.3	416.1	487.6	773.5	2736.5	4856.6	4553.7
80°	310.0	312.8	338.3	334.0	361.6	353.1	394.9	1394.8	2060.0	1745.1
82.5°	107.6	133.0	258.3	266.1	276.0	213.7	227.9	569.0	629.1	481.9
85°	52.4	55.9	131.6	186.8	186.1	107.6	111.1	203.1	198.1	155.7
87.5°	8.5	10.6	15.6	72.9	58.0	28.3	38.2	39.6	41.0	35.4
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°
1608.5	0°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
1665.8	2.5°	1626.2	1590.8	1516.5	1447.9	1394.1	1342.4	1313.4	1288.6	1274.5	1271.6
1743.7	5°	1670.1	1597.2	1462.0	1348.1	1273.8	1218.6	1189.6	1171.2	1162.0	1156.3
1848.4	7.5°	1733.0	1626.2	1433.7	1304.2	1226.4	1186.7	1171.9	1169.0	1168.3	1169.0
1975.1	10°	1820.1	1673.6	1430.9	1293.6	1228.5	1206.5	1205.8	1206.5	1209.4	1210.1
2113.0	12.5°	1914.2	1722.4	1442.2	1302.8	1255.4	1243.3	1241.2	1240.5	1242.6	1244.1
2252.5	15°	2016.8	1786.8	1461.3	1322.6	1285.1	1272.4	1270.2	1266.0	1265.3	1264.6
2398.9	17.5°	2122.2	1850.5	1482.5	1343.8	1304.2	1286.5	1278.7	1268.8	1261.0	1258.9
2550.4	20°	2229.1	1913.5	1497.4	1354.4	1305.6	1280.8	1265.3	1248.3	1234.9	1227.1
2703.2	22.5°	2343.0	1979.3	1506.6	1351.6	1292.9	1258.9	1230.6	1210.8	1190.3	1176.8
2857.5	25°	2454.1	2036.6	1505.9	1336.8	1268.1	1224.9	1188.9	1163.4	1135.1	1120.9
3016.7	27.5°	2561.0	2088.3	1488.2	1310.6	1232.7	1184.6	1141.4	1111.0	1083.4	1070.0
3177.4	30°	2671.4	2131.4	1460.6	1272.4	1191.0	1137.9	1090.5	1064.3	1039.5	1026.8
3347.2	32.5°	2781.1	2171.1	1421.7	1224.9	1142.9	1091.9	1045.2	1021.1	1006.3	1006.3
3529.8	35°	2897.1	2198.7	1370.0	1169.7	1091.9	1043.1	1006.3	992.1	990.7	982.2
3723.0	37.5°	3019.5	2216.4	1307.0	1113.1	1041.7	995.7	984.3	967.4	953.2	934.8
3935.2	40°	3148.3	2234.1	1231.3	1054.4	988.6	963.1	958.2	935.5	895.2	849.9
4175.9	42.5°	3304.7	2246.1	1152.8	995.7	932.7	924.2	931.3	892.3	828.0	794.0
4466.0	45°	3485.9	2265.9	1080.6	937.6	875.4	875.4	905.1	854.1	801.1	779.8
4797.2	47.5°	3720.8	2311.9	1013.4	873.9	822.3	836.4	847.1	808.1	778.4	752.2
5200.5	50°	4060.5	2422.3	944.0	809.6	782.0	810.3	795.4	772.8	738.1	716.9
5841.7	52.5°	4482.3	2487.4	882.4	751.5	747.3	775.6	754.4	733.1	706.9	678.6
6327.8	55°	4769.6	2499.4	830.8	709.1	723.9	721.1	713.3	694.2	680.1	642.5
6807.6	57.5°	5090.8	2523.5	788.3	683.6	709.1	677.9	675.1	658.8	640.4	614.9
7392.8	60°	5475.1	2561.0	751.5	673.7	696.3	649.6	635.5	629.1	610.7	598.0
8096.9	62.5°	5894.0	2595.0	714.0	675.1	681.5	622.0	600.8	598.7	587.4	583.1
8757.9	65°	6179.9	2502.3	667.3	673.7	658.1	593.7	566.8	566.1	556.9	555.5
9044.5	67.5°	6080.1	2208.6	604.3	653.9	634.1	565.4	535.7	532.9	520.8	521.5
8745.2	70°	5580.5	1789.7	517.3	605.0	604.3	539.9	503.1	493.9	477.7	480.5
7603.7	72.5°	4643.6	1326.1	400.5	523.7	556.9	516.6	465.6	450.8	430.3	433.1
5613.1	75°	3353.6	901.5	291.6	398.4	484.7	489.0	428.8	403.4	378.6	382.8
3124.3	77.5°	1716.1	510.9	214.4	274.6	380.7	444.4	395.6	361.6	355.9	395.6
900.8	80°	559.8	256.2	148.6	192.5	249.8	363.7	346.7	307.8	306.4	315.6
188.9	82.5°	167.0	108.3	95.5	126.7	138.0	278.8	299.3	232.8	200.3	210.9
63.0	85°	57.3	52.4	54.5	63.0	65.8	163.5	209.5	154.3	145.8	160.6
14.2	87.5°	13.4	18.4	15.6	14.2	14.2	39.6	81.4	64.4	89.2	59.4
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>
1608.5
1271.6
1155.6
1171.2
1210.8
1244.8
1263.9
1261.0
1229.9
1177.5
1120.9
1069.3
1026.1
1007.0
980.1
932.0
843.5
794.7
783.4
751.5
714.7
673.0
643.3
606.5
601.5
583.1
554.8
521.5
483.3
432.4
384.3
389.9
271.0
218.0
158.5
57.3
0.0

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