

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: P950850

Luminaire Tested: **GALN-SB5A-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950850
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-SB5A-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 16056 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

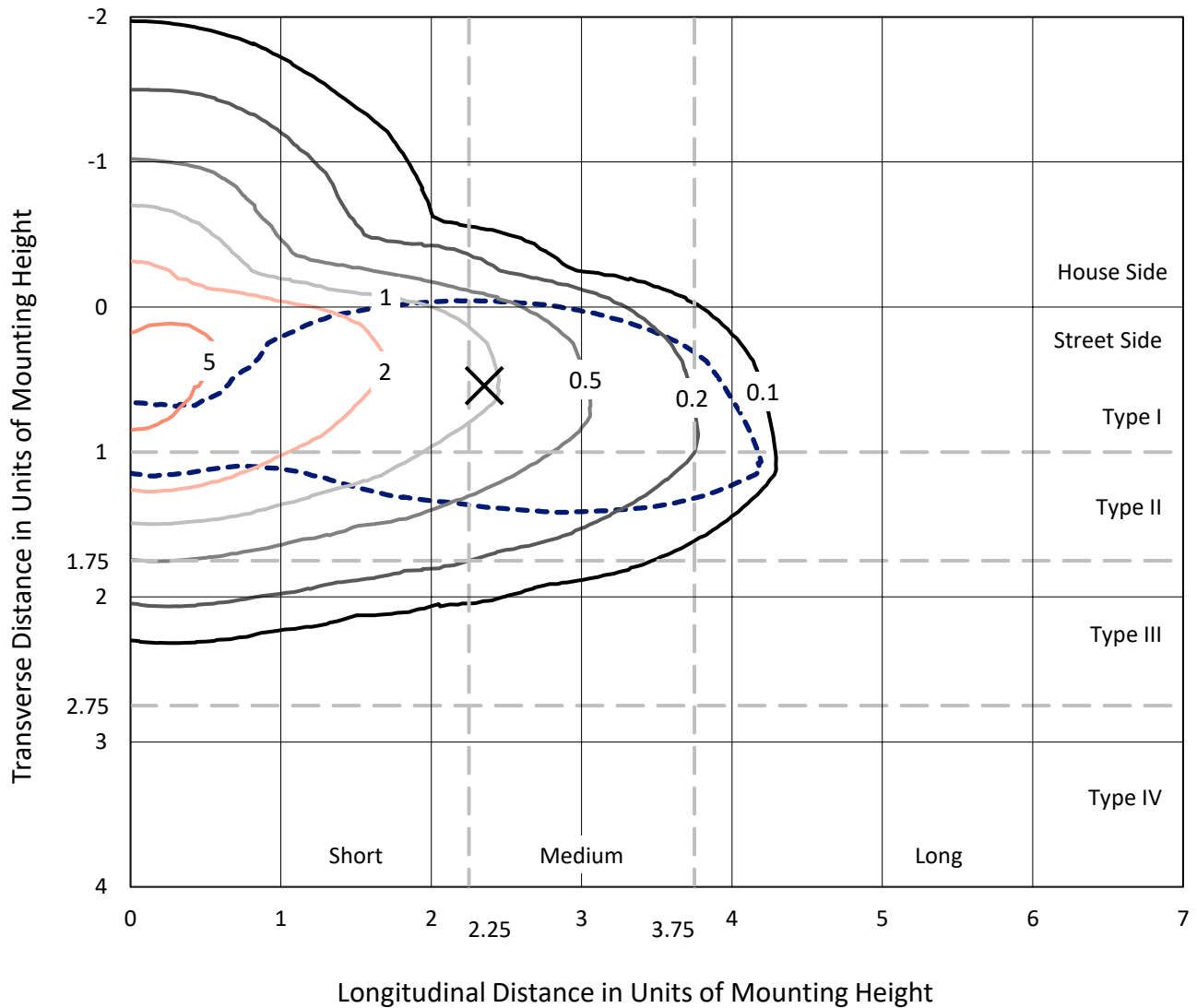
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

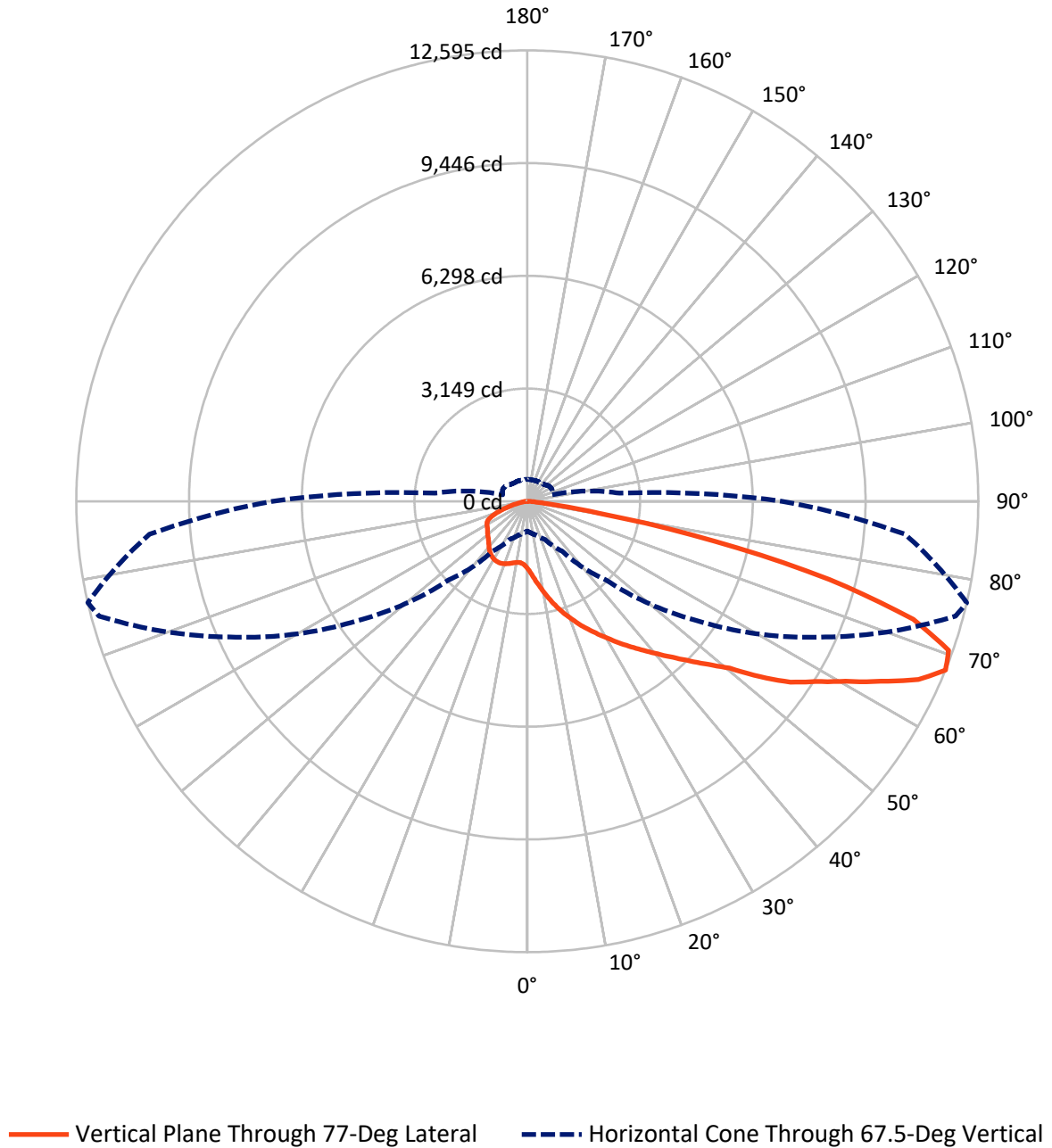
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB5A-935-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.1	0.0	3037.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13018.9	0.0	13018.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	16056.0	0.0	16056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.3
10°-20°	725.4	4.5
20°-30°	1369.7	8.5
30°-40°	2206.6	13.7
40°-50°	3018.2	18.8
50°-60°	3404.5	21.2
60°-70°	3177.7	19.8
70°-80°	1741.9	10.8
80°-90°	210.1	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°	16056.0	100.0
0°-180°	16056.0	100.0

Coefficient of Utilization



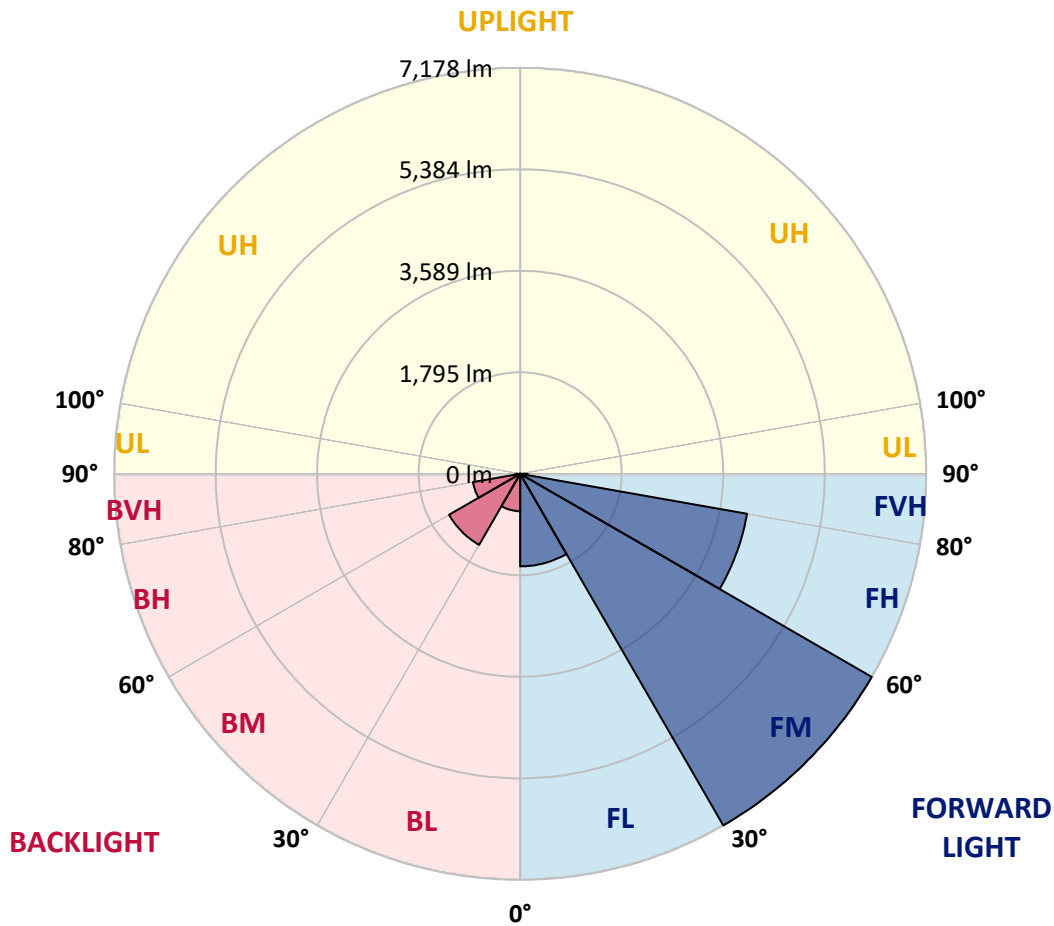
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.7	10.2			
FM (30°-60°)	7178.5	44.7			
FH (60°-80°)	4072.3	25.4			G2/5000
FVH (80°-90°)	131.4	0.8			G2/225
BL (0°-30°)	660.3	4.1	B2/1000		
BM (30°-60°)	1450.8	9.0	B2/2500		
BH (60°-80°)	847.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	78.7	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°	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9
2.5°	2358.8	2375.3	2354.6	2354.6	2285.0	2248.5	2178.9	2125.9	2030.6	2014.0
5°	2788.1	2808.8	2779.8	2767.4	2685.3	2609.9	2493.0	2377.8	2207.9	2190.5
7.5°	3120.4	3147.0	3121.3	3108.0	3035.1	2950.5	2813.8	2653.0	2413.5	2379.5
10°	3391.5	3395.6	3387.3	3392.3	3335.1	3265.5	3125.4	2938.1	2638.9	2592.5
12.5°	3544.8	3563.8	3580.4	3610.3	3600.3	3557.2	3431.2	3207.5	2877.6	2817.9
15°	3616.9	3650.0	3687.3	3756.1	3811.7	3822.4	3726.3	3496.7	3120.4	3048.3
17.5°	3642.6	3674.1	3732.9	3832.4	3951.7	4032.1	3989.0	3777.7	3360.8	3277.9
20°	3772.7	3781.8	3817.5	3911.9	4041.2	4174.7	4207.0	4047.9	3598.7	3505.0
22.5°	4051.2	4033.0	4042.9	4086.0	4178.8	4308.1	4381.9	4286.6	3843.2	3735.4
25°	4511.2	4458.1	4405.1	4355.4	4402.6	4475.5	4559.2	4525.3	4099.3	3962.5
27.5°	5092.2	5027.5	4910.7	4747.4	4690.2	4715.9	4753.2	4746.6	4336.3	4197.9
30°	5664.0	5588.6	5449.4	5213.2	5062.3	4994.4	4966.2	4947.1	4594.1	4446.5
32.5°	6120.7	6061.0	5924.3	5659.9	5441.1	5325.1	5231.4	5163.4	4863.4	4715.9
35°	6520.2	6464.7	6308.0	6019.6	5781.7	5658.2	5535.6	5390.5	5143.5	4994.4
37.5°	6884.9	6829.3	6614.7	6314.6	6075.1	5989.8	5880.4	5634.2	5424.5	5283.6
40°	7115.3	7102.8	6902.3	6562.5	6313.8	6271.5	6235.1	5916.8	5736.1	5605.2
42.5°	7174.1	7201.5	7042.3	6763.0	6526.0	6492.0	6577.4	6236.7	6085.9	5960.7
45°	7032.4	7111.1	7006.7	6816.9	6676.8	6658.6	6880.7	6586.5	6472.9	6358.6
47.5°	6673.5	6807.0	6763.9	6737.3	6717.4	6796.2	7147.6	6957.8	6911.4	6811.9
50°	5949.1	6201.9	6277.3	6444.8	6637.0	6903.1	7390.4	7363.1	7423.6	7323.3
52.5°	4696.8	5044.9	5482.5	5901.9	6390.1	6867.5	7657.3	7944.9	8200.2	8145.5
55°	3877.1	4033.8	4370.3	5139.4	5911.0	6717.4	7777.5	8414.8	8971.0	8922.1
57.5°	3247.2	3387.3	3594.5	4236.8	5186.6	6376.8	7852.1	8701.6	9498.9	9493.9
60°	2571.8	2720.1	2932.3	3387.3	4340.4	5788.4	7835.5	9028.1	10172.7	10214.2
62.5°	1809.3	1972.5	2207.9	2632.3	3476.0	5025.9	7497.3	9264.4	10965.9	11078.6
65°	1189.3	1297.1	1474.4	1840.8	2590.0	4045.4	6851.7	9295.0	11814.6	12005.2
67.5°	833.8	875.2	979.6	1178.6	1707.3	3102.2	5823.2	8977.6	12380.6	12595.3
70°	650.6	671.3	724.4	803.9	1072.5	2086.1	4462.3	8152.1	12259.6	12483.4
72.5°	561.9	581.8	601.7	611.7	719.4	1288.0	3022.6	6816.1	11120.0	11271.7
75°	509.7	514.7	531.3	527.9	548.7	835.4	1744.6	4966.2	8773.7	8721.5
77.5°	428.5	435.1	462.5	458.3	487.3	571.0	905.9	3205.0	5688.1	5333.3
80°	363.0	366.3	396.2	391.2	423.5	413.6	462.5	1633.6	2412.6	2043.8
82.5°	126.0	155.8	302.5	311.6	323.2	250.3	266.9	666.4	736.8	564.4
85°	61.3	65.5	154.2	218.8	218.0	126.0	130.1	237.9	232.1	182.3
87.5°	9.9	12.4	18.2	85.4	68.0	33.2	44.8	46.4	48.1	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950850
 CATALOG NUMBER: GALN-SB5A-935-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1883.9	0°	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9	1883.9
1951.0	2.5°	1904.6	1863.1	1776.1	1695.7	1632.7	1572.2	1538.3	1509.2	1492.7	1489.4
2042.2	5°	1956.0	1870.6	1712.3	1578.9	1491.8	1427.2	1393.2	1371.7	1360.9	1354.3
2164.8	7.5°	2029.7	1904.6	1679.2	1527.5	1436.3	1389.9	1372.5	1369.2	1368.4	1369.2
2313.2	10°	2131.7	1960.1	1675.8	1515.1	1438.8	1413.1	1412.3	1413.1	1416.4	1417.3
2474.8	12.5°	2241.9	2017.3	1689.1	1525.8	1470.3	1456.2	1453.7	1452.9	1455.4	1457.0
2638.1	15°	2362.1	2092.7	1711.5	1549.0	1505.1	1490.2	1487.7	1482.7	1481.9	1481.1
2809.6	17.5°	2485.6	2167.3	1736.3	1573.9	1527.5	1506.8	1497.6	1486.0	1476.9	1474.4
2987.0	20°	2610.7	2241.1	1753.7	1586.3	1529.1	1500.1	1481.9	1462.0	1446.3	1437.1
3166.0	22.5°	2744.2	2318.2	1764.5	1583.0	1514.2	1474.4	1441.3	1418.1	1394.0	1378.3
3346.7	25°	2874.3	2385.3	1763.7	1565.6	1485.2	1434.7	1392.4	1362.6	1329.4	1312.8
3533.2	27.5°	2999.4	2445.8	1743.0	1534.9	1443.8	1387.4	1336.9	1301.2	1268.9	1253.1
3721.3	30°	3128.7	2496.4	1710.6	1490.2	1394.9	1332.7	1277.2	1246.5	1217.5	1202.6
3920.2	32.5°	3257.2	2542.8	1665.1	1434.7	1338.5	1278.8	1224.1	1196.0	1178.6	1178.6
4134.1	35°	3393.1	2575.1	1604.6	1370.0	1278.8	1221.7	1178.6	1162.0	1160.3	1150.4
4360.3	37.5°	3536.5	2595.8	1530.8	1303.7	1220.0	1166.1	1152.9	1133.0	1116.4	1094.8
4609.0	40°	3687.3	2616.5	1442.1	1234.9	1157.8	1128.0	1122.2	1095.7	1048.4	995.4
4890.8	42.5°	3870.5	2630.6	1350.1	1166.1	1092.4	1082.4	1090.7	1045.1	969.7	929.9
5230.6	45°	4082.7	2653.8	1265.6	1098.2	1025.2	1025.2	1060.0	1000.4	938.2	913.3
5618.5	47.5°	4357.8	2707.7	1186.8	1023.6	963.1	979.6	992.1	946.5	911.7	881.0
6090.9	50°	4755.7	2837.0	1105.6	948.1	915.8	949.0	931.6	905.1	864.4	839.6
6841.8	52.5°	5249.6	2913.2	1033.5	880.2	875.2	908.4	883.5	858.6	828.0	794.8
7411.2	55°	5586.1	2927.3	973.0	830.5	847.9	844.5	835.4	813.1	796.5	752.6
7973.1	57.5°	5962.4	2955.5	923.3	800.6	830.5	794.0	790.7	771.6	750.1	720.2
8658.5	60°	6412.4	2999.4	880.2	789.0	815.5	760.8	744.3	736.8	715.3	700.3
9483.2	62.5°	6903.1	3039.2	836.3	790.7	798.1	728.5	703.7	701.2	687.9	682.9
10257.3	65°	7237.9	2930.6	781.6	789.0	770.8	695.4	663.9	663.0	652.3	650.6
10592.9	67.5°	7121.1	2586.7	707.8	765.8	742.6	662.2	627.4	624.1	610.0	610.8
10242.3	70°	6535.9	2096.0	605.9	708.6	707.8	632.4	589.3	578.5	559.4	562.8
8905.5	72.5°	5438.6	1553.2	469.1	613.3	652.3	605.0	545.4	527.9	503.9	507.2
6574.1	75°	3927.7	1055.9	341.5	466.6	567.7	572.7	502.3	472.4	443.4	448.4
3659.2	77.5°	2009.8	598.4	251.1	321.6	445.9	520.5	463.3	423.5	416.9	463.3
1055.1	80°	655.6	300.0	174.0	225.4	292.6	426.0	406.1	360.5	358.9	369.6
221.3	82.5°	195.6	126.8	111.9	148.4	161.6	326.5	350.6	272.7	234.6	247.0
73.8	85°	67.1	61.3	63.8	73.8	77.1	191.5	245.3	180.7	170.7	188.1
16.6	87.5°	15.7	21.5	18.2	16.6	16.6	46.4	95.3	75.4	104.4	69.6
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>
1883.9
1489.4
1353.4
1371.7
1418.1
1457.9
1480.2
1476.9
1440.5
1379.1
1312.8
1252.3
1201.8
1179.4
1147.9
1091.5
987.9
930.7
917.5
880.2
837.1
788.2
753.4
710.3
704.5
682.9
649.8
610.8
566.1
506.4
450.0
456.7
317.4
255.3
185.7
67.1
0.0

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