

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: P948645

Luminaire Tested: **GALN-SB3C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948645
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-SB3C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21892 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

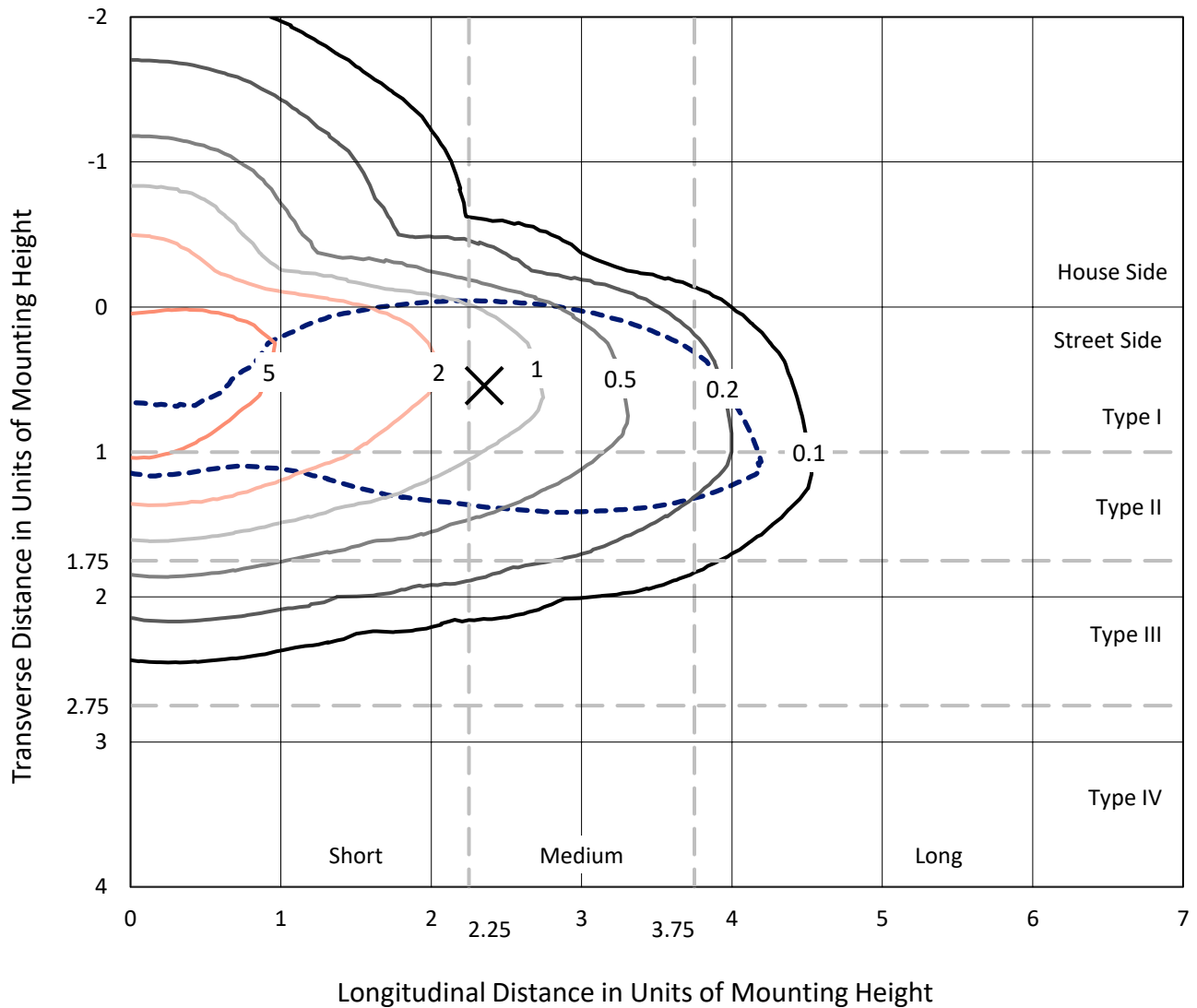
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

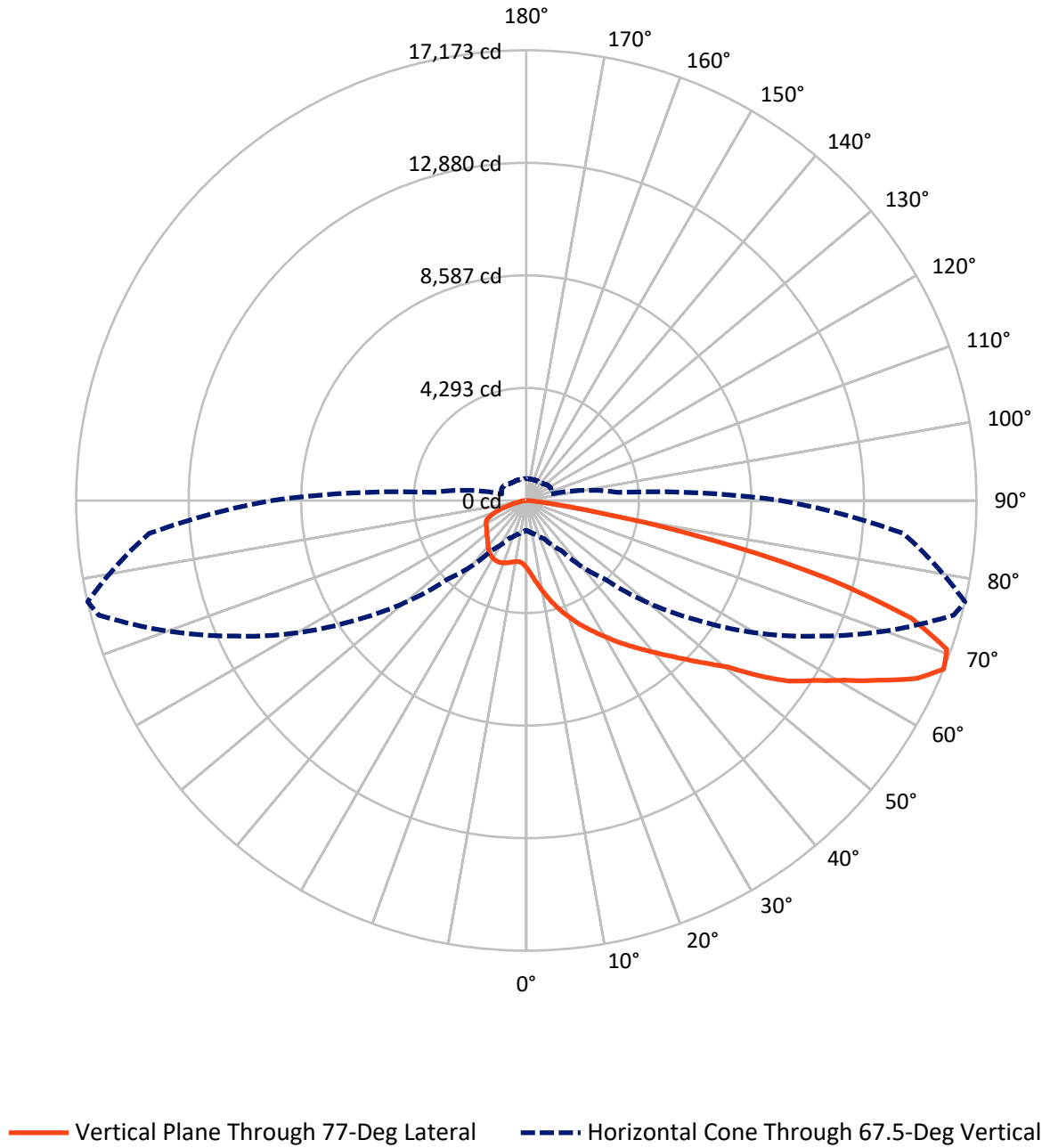
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	4141.1	0.0	4141.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17750.9	0.0	17750.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	21892.0	0.0	21892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.3
10°-20°	989.1	4.5
20°-30°	1867.5	8.5
30°-40°	3008.6	13.7
40°-50°	4115.2	18.8
50°-60°	4642.0	21.2
60°-70°	4332.7	19.8
70°-80°	2375.1	10.8
80°-90°	286.5	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°	21892.0	100.0
0°-180°	21892.0	100.0



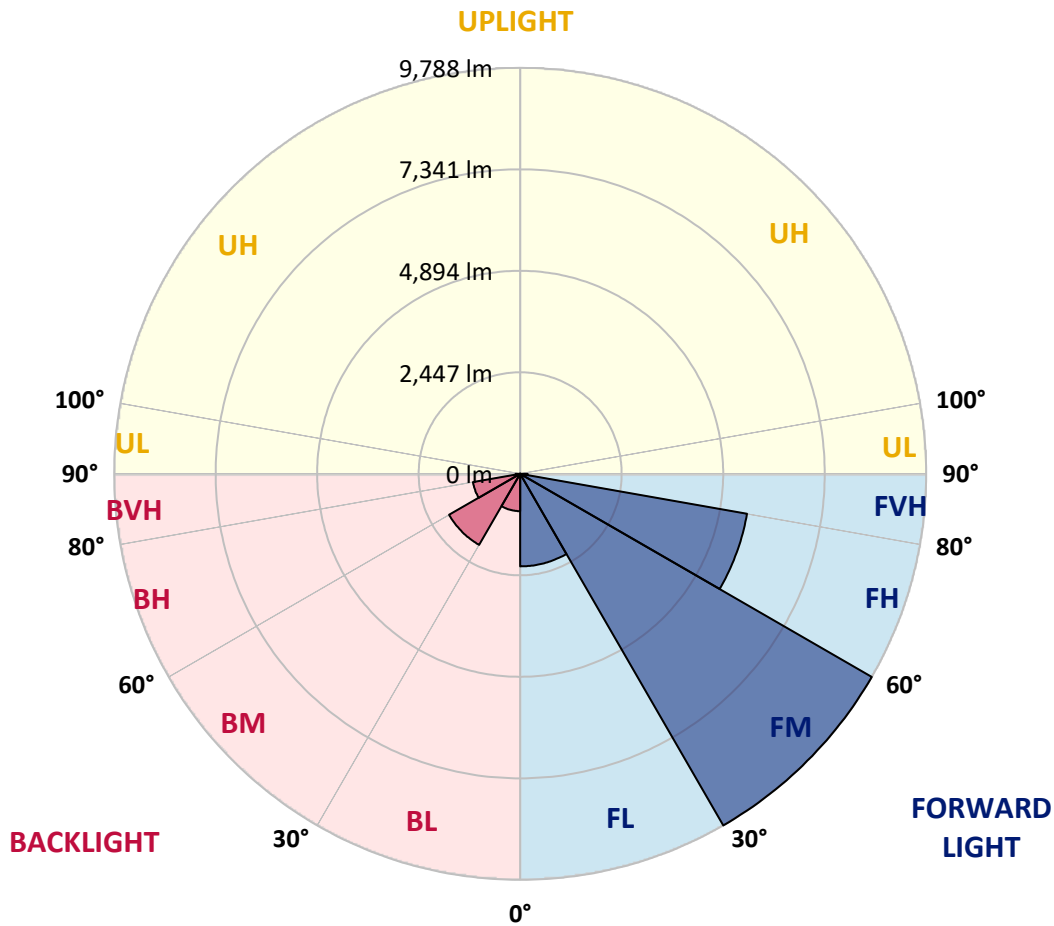
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2231.6	10.2			
FM (30°-60°)	9787.7	44.7			
FH (60°-80°)	5552.5	25.4			G3/7500
FVH (80°-90°)	179.2	0.8			G2/225
BL (0°-30°)	900.4	4.1	B2/1000		
BM (30°-60°)	1978.1	9.0	B2/2500		
BH (60°-80°)	1155.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2.5°	3216.1	3238.7	3210.5	3210.5	3115.6	3065.8	2970.9	2898.6	2768.6	2746.0
5°	3801.5	3829.8	3790.2	3773.2	3661.4	3558.5	3399.2	3242.1	3010.5	2986.7
7.5°	4254.7	4290.8	4255.8	4237.7	4138.3	4023.0	3836.5	3617.3	3290.7	3244.4
10°	4624.2	4629.8	4618.5	4625.3	4547.3	4452.4	4261.4	4006.0	3598.1	3534.8
12.5°	4833.2	4859.2	4881.8	4922.5	4909.0	4850.2	4678.4	4373.3	3923.5	3842.2
15°	4931.6	4976.8	5027.6	5121.4	5197.1	5211.8	5080.7	4767.7	4254.7	4156.3
17.5°	4966.6	5009.5	5089.8	5225.4	5388.1	5497.7	5438.9	5150.8	4582.4	4469.4
20°	5144.0	5156.4	5205.0	5333.9	5510.1	5692.1	5736.2	5519.2	4906.7	4779.0
22.5°	5523.7	5498.8	5512.4	5571.2	5697.7	5874.0	5974.6	5844.6	5240.1	5093.2
25°	6150.9	6078.6	6006.2	5938.4	6002.8	6102.3	6216.4	6170.1	5589.2	5402.8
27.5°	6943.0	6854.9	6695.6	6472.9	6395.0	6430.0	6480.9	6471.8	5912.4	5723.7
30°	7722.8	7620.0	7430.1	7108.0	6902.4	6809.7	6771.3	6745.3	6263.9	6062.7
32.5°	8345.4	8264.1	8077.6	7717.1	7418.8	7260.6	7132.9	7040.2	6631.2	6430.0
35°	8890.1	8814.4	8600.8	8207.6	7883.3	7714.9	7547.6	7349.9	7013.1	6809.7
37.5°	9387.4	9311.6	9019.0	8609.9	8283.3	8166.9	8017.7	7682.1	7396.2	7204.1
40°	9701.5	9684.6	9411.1	8947.8	8608.7	8551.1	8501.4	8067.5	7821.1	7642.6
42.5°	9781.7	9819.0	9602.1	9221.2	8898.0	8851.7	8968.1	8503.7	8298.0	8127.3
45°	9588.5	9695.9	9553.5	9294.7	9103.7	9078.9	9381.7	8980.5	8825.7	8669.8
47.5°	9099.2	9281.1	9222.4	9186.2	9159.1	9266.4	9745.6	9486.8	9423.5	9287.9
50°	8111.5	8456.2	8559.0	8787.3	9049.5	9412.2	10076.7	10039.4	10121.9	9985.2
52.5°	6404.0	6878.6	7475.3	8047.1	8712.7	9363.6	10440.6	10832.7	11180.7	11106.2
55°	5286.4	5500.0	5958.8	7007.5	8059.5	9159.1	10604.4	11473.4	12231.7	12165.0
57.5°	4427.5	4618.5	4901.0	5776.8	7071.9	8694.6	10706.1	11864.4	12951.5	12944.8
60°	3506.6	3708.8	3998.1	4618.5	5918.1	7892.3	10683.5	12309.7	13870.3	13926.8
62.5°	2466.9	2689.5	3010.5	3589.1	4739.4	6852.6	10222.5	12631.7	14951.7	15105.4
65°	1621.6	1768.5	2010.4	2509.8	3531.4	5515.8	9342.2	12673.6	16108.9	16368.8
67.5°	1136.8	1193.3	1335.7	1606.9	2327.9	4229.8	7939.8	12240.7	16880.7	17173.4
70°	887.1	915.3	987.7	1096.2	1462.3	2844.3	6084.2	11115.2	16715.8	17020.9
72.5°	766.2	793.3	820.4	834.0	980.9	1756.1	4121.3	9293.6	15161.9	15368.7
75°	695.0	701.8	724.4	719.8	748.1	1139.1	2378.8	6771.3	11962.7	11891.6
77.5°	584.2	593.3	630.6	624.9	664.5	778.6	1235.1	4369.9	7755.6	7271.9
80°	495.0	499.5	540.2	533.4	577.5	563.9	630.6	2227.3	3289.6	2786.7
82.5°	171.8	212.5	412.5	424.9	440.7	341.3	363.9	908.6	1004.6	769.6
85°	83.6	89.3	210.2	298.3	297.2	171.8	177.4	324.3	316.4	248.6
87.5°	13.6	17.0	24.9	116.4	92.7	45.2	61.0	63.3	65.5	56.5
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°
2568.6	0°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2660.1	2.5°	2596.9	2540.4	2421.7	2312.1	2226.2	2143.7	2097.4	2057.8	2035.2	2030.7
2784.5	5°	2666.9	2550.5	2334.7	2152.8	2034.1	1946.0	1899.6	1870.2	1855.5	1846.5
2951.7	7.5°	2767.5	2596.9	2289.5	2082.7	1958.4	1895.1	1871.4	1866.8	1865.7	1866.8
3154.0	10°	2906.5	2672.6	2285.0	2065.7	1961.8	1926.7	1925.6	1926.7	1931.3	1932.4
3374.3	12.5°	3056.8	2750.6	2303.0	2080.4	2004.7	1985.5	1982.1	1981.0	1984.4	1986.6
3597.0	15°	3220.7	2853.4	2333.6	2112.1	2052.2	2031.8	2028.4	2021.7	2020.5	2019.4
3830.9	17.5°	3389.0	2955.1	2367.5	2146.0	2082.7	2054.4	2042.0	2026.2	2013.8	2010.4
4072.7	20°	3559.7	3055.7	2391.2	2162.9	2084.9	2045.4	2020.5	1993.4	1971.9	1959.5
4316.8	22.5°	3741.6	3160.8	2405.9	2158.4	2064.6	2010.4	1965.2	1933.5	1900.8	1879.3
4563.2	25°	3919.0	3252.3	2404.8	2134.7	2025.1	1956.1	1898.5	1857.8	1812.6	1790.0
4817.4	27.5°	4089.7	3334.8	2376.5	2092.9	1968.6	1891.7	1822.8	1774.2	1730.1	1708.6
5073.9	30°	4266.0	3403.7	2332.4	2031.8	1901.9	1817.1	1741.4	1699.6	1660.0	1639.7
5345.2	32.5°	4441.1	3467.0	2270.3	1956.1	1825.0	1743.7	1669.1	1630.7	1606.9	1606.9
5636.7	35°	4626.4	3511.1	2187.8	1868.0	1743.7	1665.7	1606.9	1584.3	1582.1	1568.5
5945.2	37.5°	4821.9	3539.3	2087.2	1777.6	1663.4	1590.0	1571.9	1544.8	1522.2	1492.8
6284.2	40°	5027.6	3567.6	1966.3	1683.8	1578.7	1538.0	1530.1	1493.9	1429.5	1357.2
6668.4	42.5°	5277.4	3586.8	1840.9	1590.0	1489.4	1475.8	1487.2	1425.0	1322.2	1267.9
7131.8	45°	5566.6	3618.4	1725.6	1497.3	1397.9	1397.9	1445.3	1364.0	1279.2	1245.3
7660.6	47.5°	5941.8	3691.9	1618.2	1395.6	1313.1	1335.7	1352.7	1290.5	1243.1	1201.2
8304.8	50°	6484.2	3868.2	1507.5	1292.8	1248.7	1293.9	1270.2	1234.0	1178.6	1144.7
9328.6	52.5°	7157.8	3972.1	1409.2	1200.1	1193.3	1238.5	1204.6	1170.7	1128.9	1083.7
10104.9	55°	7616.6	3991.3	1326.7	1132.3	1156.0	1151.5	1139.1	1108.6	1086.0	1026.1
10871.1	57.5°	8129.6	4029.8	1258.9	1091.6	1132.3	1082.6	1078.1	1052.1	1022.7	982.0
11805.7	60°	8743.2	4089.7	1200.1	1075.8	1112.0	1037.4	1014.8	1004.6	975.2	954.9
12930.1	62.5°	9412.2	4143.9	1140.2	1078.1	1088.2	993.3	959.4	956.0	937.9	931.2
13985.5	65°	9868.8	3995.9	1065.6	1075.8	1050.9	948.1	905.2	904.0	889.4	887.1
14443.2	67.5°	9709.4	3526.9	965.1	1044.2	1012.5	902.9	855.5	850.9	831.7	832.8
13965.2	70°	8911.6	2857.9	826.1	966.2	965.1	862.2	803.5	788.8	762.8	767.3
12142.4	72.5°	7415.4	2117.7	639.6	836.2	889.4	824.9	743.6	719.8	687.1	691.6
8963.6	75°	5355.3	1439.7	465.6	636.2	774.1	780.9	684.8	644.1	604.6	611.4
4989.2	77.5°	2740.4	815.9	342.4	438.5	608.0	709.7	631.7	577.5	568.4	631.7
1438.6	80°	893.9	409.1	237.3	307.4	398.9	580.8	553.7	491.6	489.3	504.0
301.7	82.5°	266.7	172.9	152.6	202.3	220.4	445.2	478.0	371.8	319.8	336.8
100.6	85°	91.5	83.6	87.0	100.6	105.1	261.0	334.5	246.4	232.8	256.5
22.6	87.5°	21.5	29.4	24.9	22.6	22.6	63.3	130.0	102.8	142.4	94.9
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>
2568.6
2030.7
1845.4
1870.2
1933.5
1987.8
2018.3
2013.8
1964.0
1880.4
1790.0
1707.5
1638.6
1608.1
1565.1
1488.3
1347.0
1269.1
1251.0
1200.1
1141.4
1074.7
1027.2
968.5
960.5
931.2
886.0
832.8
771.8
690.5
613.6
622.7
432.8
348.1
253.1
91.5
0.0

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