

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: P950745

Luminaire Tested: **GALN-SB5A-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950745
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-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 21407 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

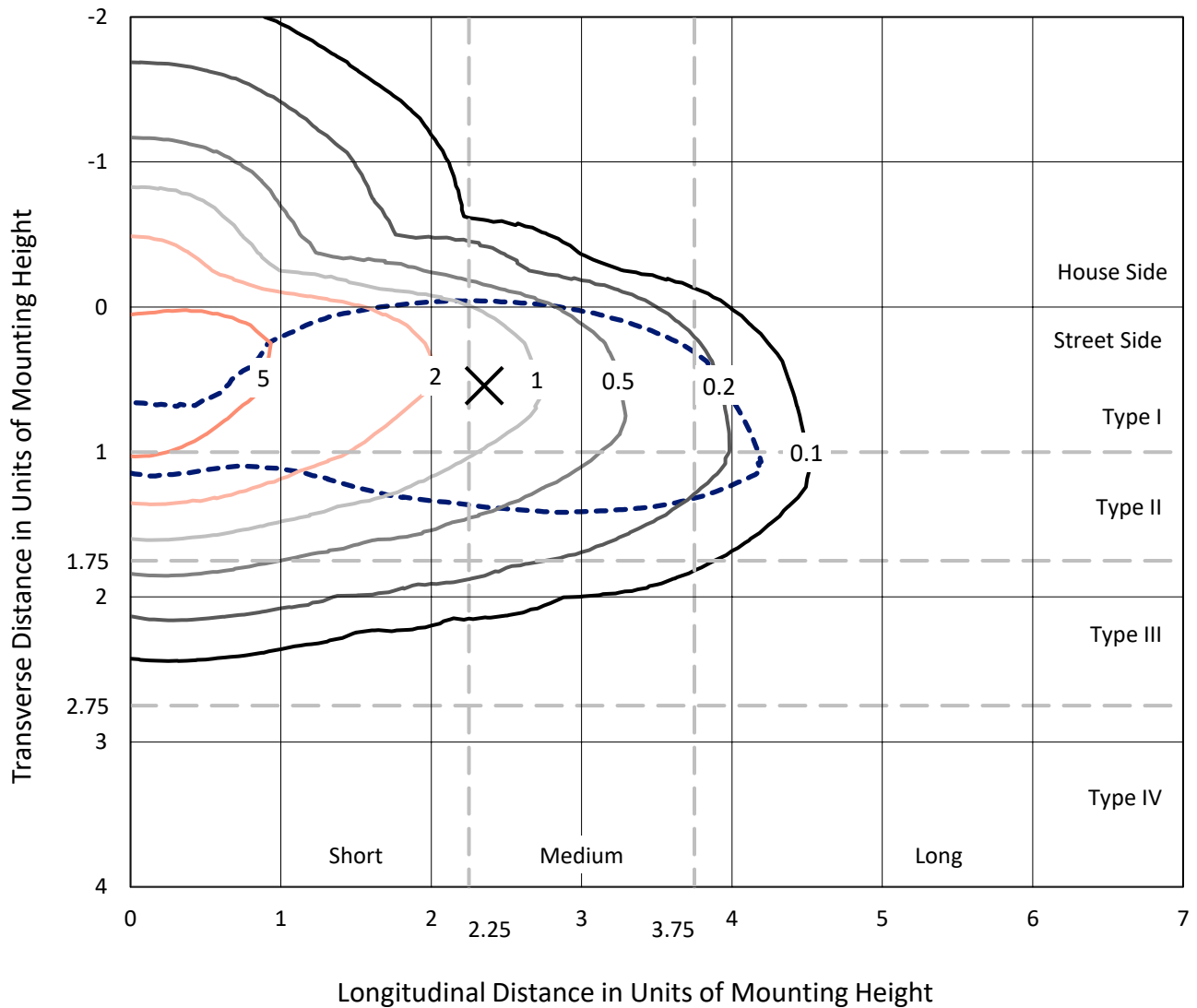
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

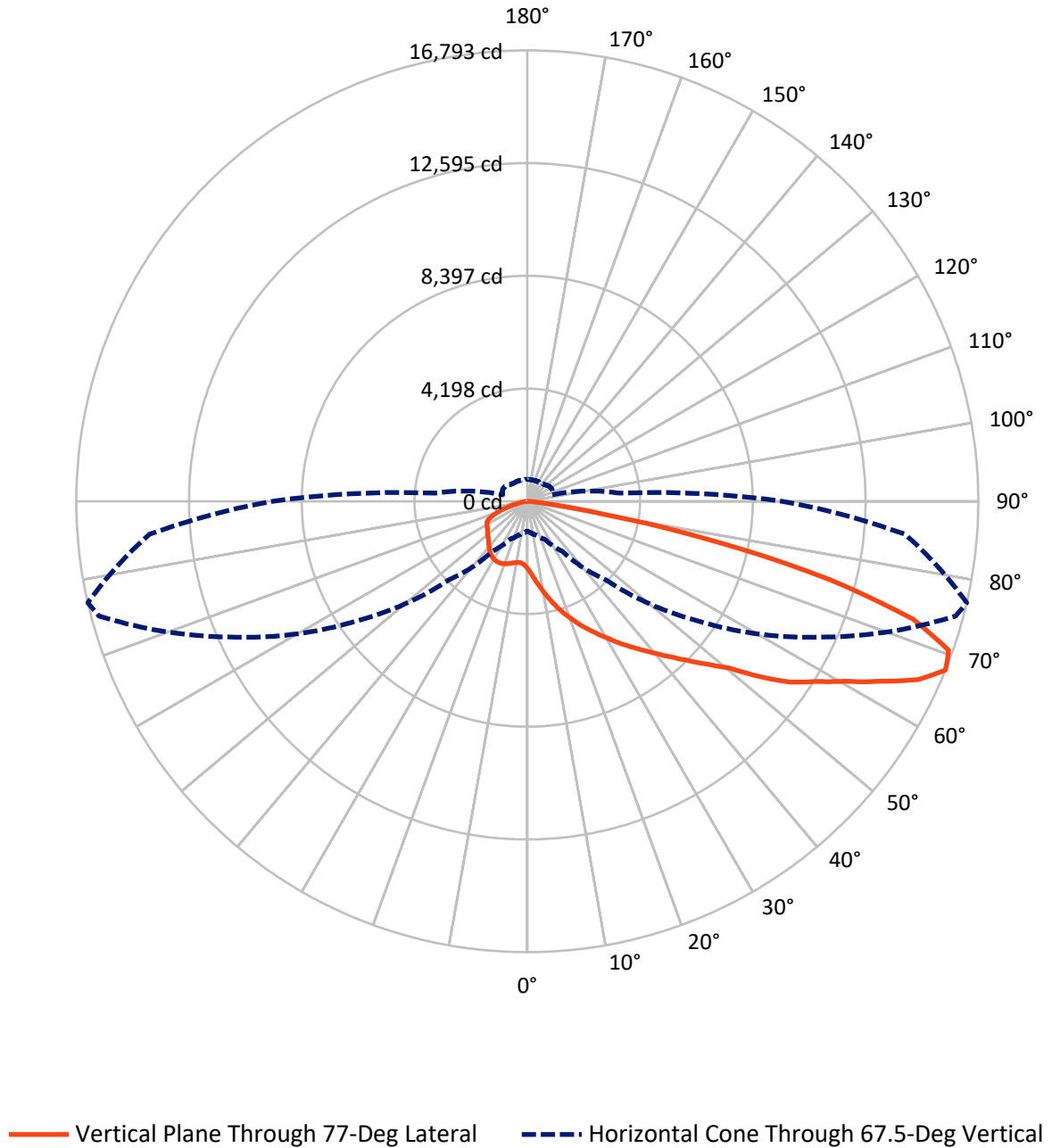
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4049.3	0.0	4049.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17357.7	0.0	17357.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	21407.0	0.0	21407.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.3
10°-20°	967.2	4.5
20°-30°	1826.2	8.5
30°-40°	2941.9	13.7
40°-50°	4024.0	18.8
50°-60°	4539.1	21.2
60°-70°	4236.7	19.8
70°-80°	2322.4	10.8
80°-90°	280.1	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°	21407.0	100.0
0°-180°	21407.0	100.0



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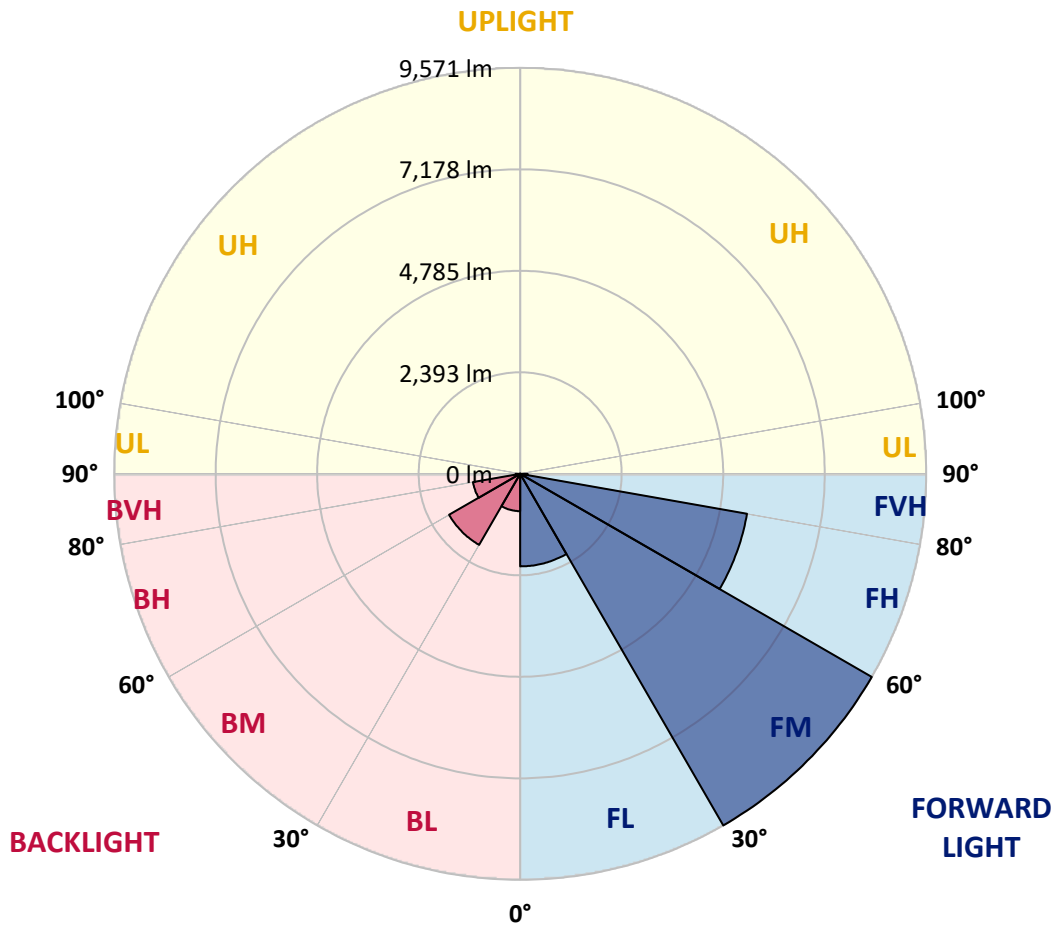
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.2	10.2			
FM (30°-60°)	9570.8	44.7			
FH (60°-80°)	5429.5	25.4			G3/7500
FVH (80°-90°)	175.2	0.8			G2/225
BL (0°-30°)	880.4	4.1	B2/1000		
BM (30°-60°)	1934.3	9.0	B2/2500		
BH (60°-80°)	1129.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.9	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°	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7
2.5°	3144.9	3167.0	3139.4	3139.4	3046.5	2997.9	2905.1	2834.4	2707.3	2685.2
5°	3717.3	3744.9	3706.2	3689.7	3580.3	3479.7	3323.9	3170.3	2943.8	2920.6
7.5°	4160.4	4195.8	4161.5	4143.8	4046.6	3933.9	3751.5	3537.2	3217.8	3172.5
10°	4521.7	4527.3	4516.2	4522.8	4446.6	4353.8	4167.0	3917.3	3518.4	3456.5
12.5°	4726.2	4751.6	4773.7	4813.5	4800.2	4742.7	4574.8	4276.4	3836.6	3757.1
15°	4822.3	4866.5	4916.2	5007.9	5082.0	5096.3	4968.2	4662.1	4160.4	4064.3
17.5°	4856.6	4898.5	4977.0	5109.6	5268.7	5375.9	5318.5	5036.7	4480.8	4370.3
20°	5030.0	5042.2	5089.7	5215.7	5388.1	5566.0	5609.1	5396.9	4798.0	4673.1
22.5°	5401.3	5377.0	5390.3	5447.7	5571.5	5743.9	5842.2	5715.2	5124.0	4980.3
25°	6014.6	5943.9	5873.2	5806.9	5869.9	5967.1	6078.7	6033.4	5465.4	5283.1
27.5°	6789.2	6703.0	6547.2	6329.5	6253.3	6287.6	6337.3	6328.4	5781.5	5596.9
30°	7551.7	7451.1	7265.5	6950.6	6749.5	6658.8	6621.3	6595.9	6125.1	5928.4
32.5°	8160.6	8081.0	7898.7	7546.2	7254.4	7099.7	6974.9	6884.3	6484.2	6287.6
35°	8693.2	8619.1	8410.3	8025.7	7708.6	7544.0	7380.4	7187.0	6857.7	6658.8
37.5°	9179.4	9105.3	8819.1	8419.1	8099.8	7986.0	7840.1	7511.9	7232.3	7044.5
40°	9486.6	9470.0	9202.6	8749.5	8418.0	8361.7	8313.1	7888.7	7647.8	7473.2
42.5°	9565.0	9601.5	9389.3	9016.9	8700.9	8655.6	8769.4	8315.3	8114.1	7947.3
45°	9376.1	9481.1	9341.8	9088.8	8902.0	8877.7	9173.9	8781.6	8630.2	8477.7
47.5°	8897.6	9075.5	9018.1	8982.7	8956.2	9061.1	9529.7	9276.6	9214.7	9082.1
50°	7931.8	8268.9	8369.4	8592.6	8849.0	9203.7	9853.4	9817.0	9897.6	9763.9
52.5°	6262.1	6726.2	7309.7	7868.8	8519.7	9156.2	10209.3	10592.7	10933.0	10860.1
55°	5169.3	5378.1	5826.8	6852.2	7881.0	8956.2	10369.5	11219.2	11960.7	11895.5
57.5°	4329.5	4516.2	4792.5	5648.9	6915.2	8502.0	10468.9	11601.6	12664.6	12658.0
60°	3428.9	3626.7	3909.6	4516.2	5787.0	7717.4	10446.8	12037.0	13563.0	13618.2
62.5°	2412.3	2629.9	2943.8	3509.5	4634.4	6700.8	9996.0	12351.9	14620.5	14770.8
65°	1585.7	1729.4	1965.8	2454.2	3453.2	5393.6	9135.2	12392.8	15752.0	16006.2
67.5°	1111.6	1166.9	1306.1	1571.3	2276.3	4136.1	7763.9	11969.6	16506.8	16793.0
70°	867.4	895.1	965.8	1071.9	1429.9	2781.3	5949.4	10869.0	16345.4	16643.8
72.5°	749.2	775.7	802.2	815.5	959.2	1717.2	4030.0	9087.7	14826.0	15028.2
75°	679.6	686.2	708.3	703.9	731.5	1113.9	2326.1	6621.3	11697.7	11628.1
77.5°	571.3	580.1	616.6	611.1	649.8	761.4	1207.8	4273.1	7583.7	7110.8
80°	484.0	488.4	528.2	521.6	564.7	551.4	616.6	2178.0	3216.7	2725.0
82.5°	168.0	207.7	403.3	415.5	431.0	333.7	355.8	888.4	982.4	752.5
85°	81.8	87.3	205.5	291.7	290.6	168.0	173.5	317.1	309.4	243.1
87.5°	13.3	16.6	24.3	113.8	90.6	44.2	59.7	61.9	64.1	55.3
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°
2511.7	0°	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7
2601.2	2.5°	2539.3	2484.1	2368.1	2260.9	2176.9	2096.2	2050.9	2012.2	1990.1	1985.7
2722.8	5°	2607.8	2494.0	2283.0	2105.1	1989.0	1902.8	1857.5	1828.8	1814.4	1805.6
2886.3	7.5°	2706.2	2539.3	2238.8	2036.5	1915.0	1853.1	1829.9	1825.5	1824.4	1825.5
3084.1	10°	2842.1	2613.4	2234.3	2020.0	1918.3	1884.1	1883.0	1884.1	1888.5	1889.6
3299.6	12.5°	2989.1	2689.6	2252.0	2034.3	1960.3	1941.5	1938.2	1937.1	1940.4	1942.6
3517.3	15°	3149.3	2790.2	2281.9	2065.3	2006.7	1986.8	1983.5	1976.9	1975.8	1974.7
3746.0	17.5°	3313.9	2889.6	2315.0	2098.4	2036.5	2008.9	1996.8	1981.3	1969.1	1965.8
3982.5	20°	3480.8	2988.0	2338.2	2115.0	2038.8	2000.1	1975.8	1949.3	1928.3	1916.1
4221.2	22.5°	3658.7	3090.7	2352.6	2110.6	2018.9	1965.8	1921.6	1890.7	1858.6	1837.6
4462.1	25°	3832.2	3180.2	2351.5	2087.4	1980.2	1912.8	1856.4	1816.6	1772.4	1750.3
4710.7	27.5°	3999.1	3260.9	2323.9	2046.5	1924.9	1849.8	1782.4	1734.9	1691.8	1670.8
4961.5	30°	4171.4	3328.3	2280.8	1986.8	1859.7	1776.9	1702.8	1661.9	1623.3	1603.4
5226.7	32.5°	4342.7	3390.2	2220.0	1912.8	1784.6	1705.0	1632.1	1594.5	1571.3	1571.3
5511.8	35°	4523.9	3433.3	2139.3	1826.6	1705.0	1628.8	1571.3	1549.2	1547.0	1533.8
5813.5	37.5°	4715.1	3460.9	2041.0	1738.2	1626.6	1554.8	1537.1	1510.6	1488.5	1459.7
6145.0	40°	4916.2	3488.5	1922.7	1646.5	1543.7	1503.9	1496.2	1460.8	1397.8	1327.1
6520.7	42.5°	5160.4	3507.3	1800.1	1554.8	1456.4	1443.2	1454.2	1393.4	1292.9	1239.8
6973.8	45°	5443.3	3538.3	1687.4	1464.1	1366.9	1366.9	1413.3	1333.8	1250.9	1217.7
7490.9	47.5°	5810.2	3610.1	1582.4	1364.7	1284.0	1306.1	1322.7	1261.9	1215.5	1174.6
8120.8	50°	6340.6	3782.5	1474.1	1264.1	1221.0	1265.2	1242.0	1206.7	1152.5	1119.4
9121.9	52.5°	6999.2	3884.1	1378.0	1173.5	1166.9	1211.1	1177.9	1144.8	1103.9	1059.7
9881.1	55°	7447.8	3902.9	1297.3	1107.2	1130.4	1126.0	1113.9	1084.0	1061.9	1003.4
10630.3	57.5°	7949.5	3940.5	1231.0	1067.4	1107.2	1058.6	1054.2	1028.8	1000.0	960.3
11544.1	60°	8549.5	3999.1	1173.5	1052.0	1087.3	1014.4	992.3	982.4	953.6	933.7
12643.6	62.5°	9203.7	4052.1	1115.0	1054.2	1064.1	971.3	938.2	934.8	917.2	910.5
13675.7	65°	9650.1	3907.3	1042.0	1052.0	1027.7	927.1	885.1	884.0	869.6	867.4
14123.2	67.5°	9494.3	3448.8	943.7	1021.0	990.1	882.9	836.5	832.1	813.3	814.4
13655.8	70°	8714.2	2794.6	807.8	944.8	943.7	843.1	785.7	771.3	745.9	750.3
11873.4	72.5°	7251.1	2070.8	625.4	817.7	869.6	806.7	727.1	703.9	671.9	676.3
8765.0	75°	5236.7	1407.8	455.3	622.1	756.9	763.6	669.6	629.9	591.2	597.8
4878.7	77.5°	2679.7	797.8	334.8	428.7	594.5	694.0	617.7	564.7	555.8	617.7
1406.7	80°	874.1	400.0	232.1	300.6	390.1	568.0	541.5	480.7	478.5	492.8
295.0	82.5°	260.8	169.1	149.2	197.8	215.5	435.4	467.4	363.6	312.7	329.3
98.3	85°	89.5	81.8	85.1	98.3	102.8	255.3	327.1	240.9	227.6	250.8
22.1	87.5°	21.0	28.7	24.3	22.1	22.1	61.9	127.1	100.6	139.2	92.8
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>
2511.7
1985.7
1804.5
1828.8
1890.7
1943.7
1973.6
1969.1
1920.5
1838.8
1750.3
1669.7
1602.3
1572.4
1530.5
1455.3
1317.2
1240.9
1223.3
1173.5
1116.1
1050.9
1004.5
947.0
939.3
910.5
866.3
814.4
754.7
675.2
600.0
608.9
423.2
340.3
247.5
89.5
0.0

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