

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: P953580

Luminaire Tested: **GALN-SB7A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953580
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-SB7A-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29197 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

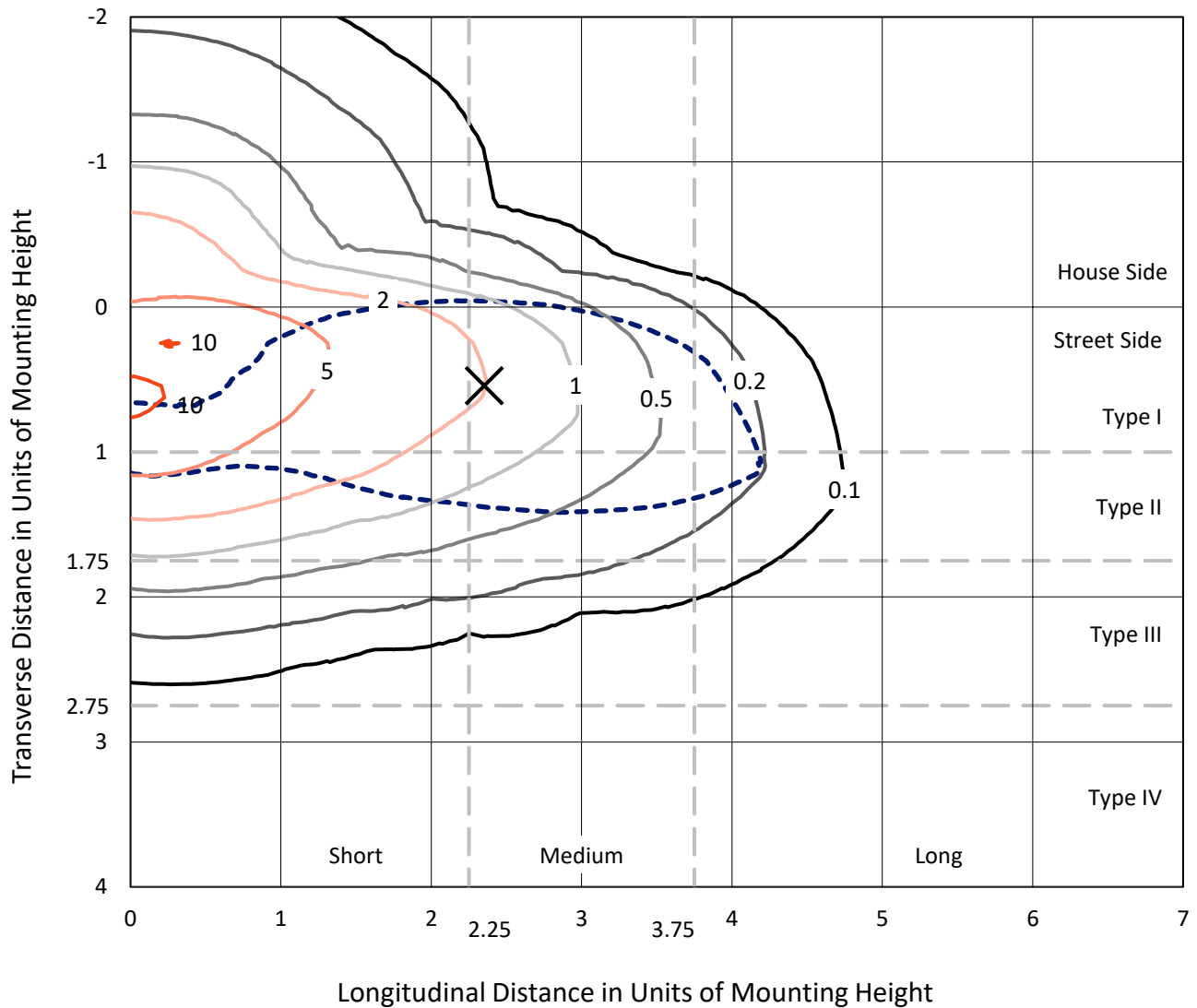
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

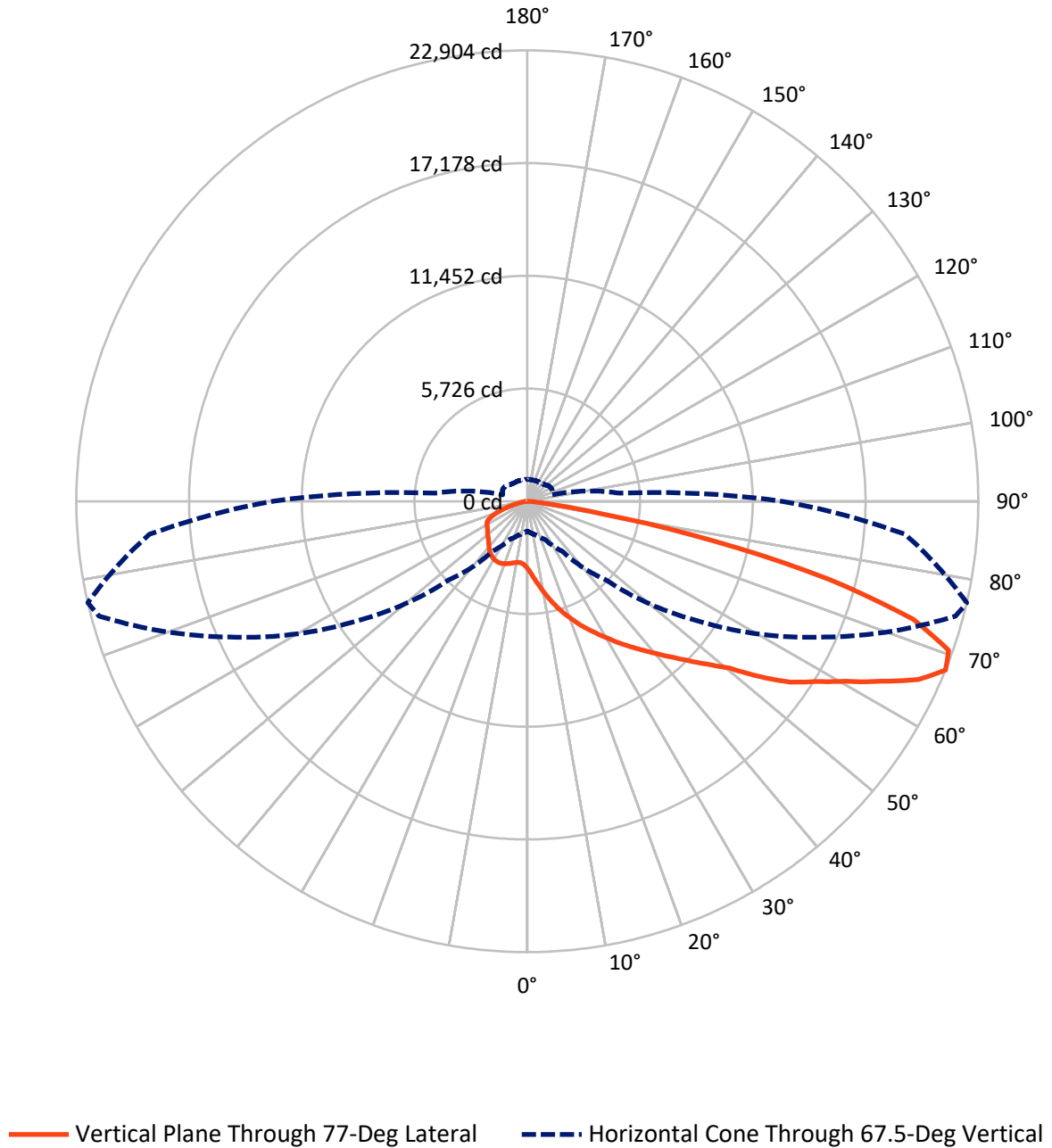
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	5522.9	0.0	5522.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23674.1	0.0	23674.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	29197.0	0.0	29197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.3
10°-20°	1319.2	4.5
20°-30°	2490.7	8.5
30°-40°	4012.5	13.7
40°-50°	5488.4	18.8
50°-60°	6190.9	21.2
60°-70°	5778.5	19.8
70°-80°	3167.6	10.8
80°-90°	382.1	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°	29197.0	100.0
0°-180°	29197.0	100.0

Coefficient of Utilization



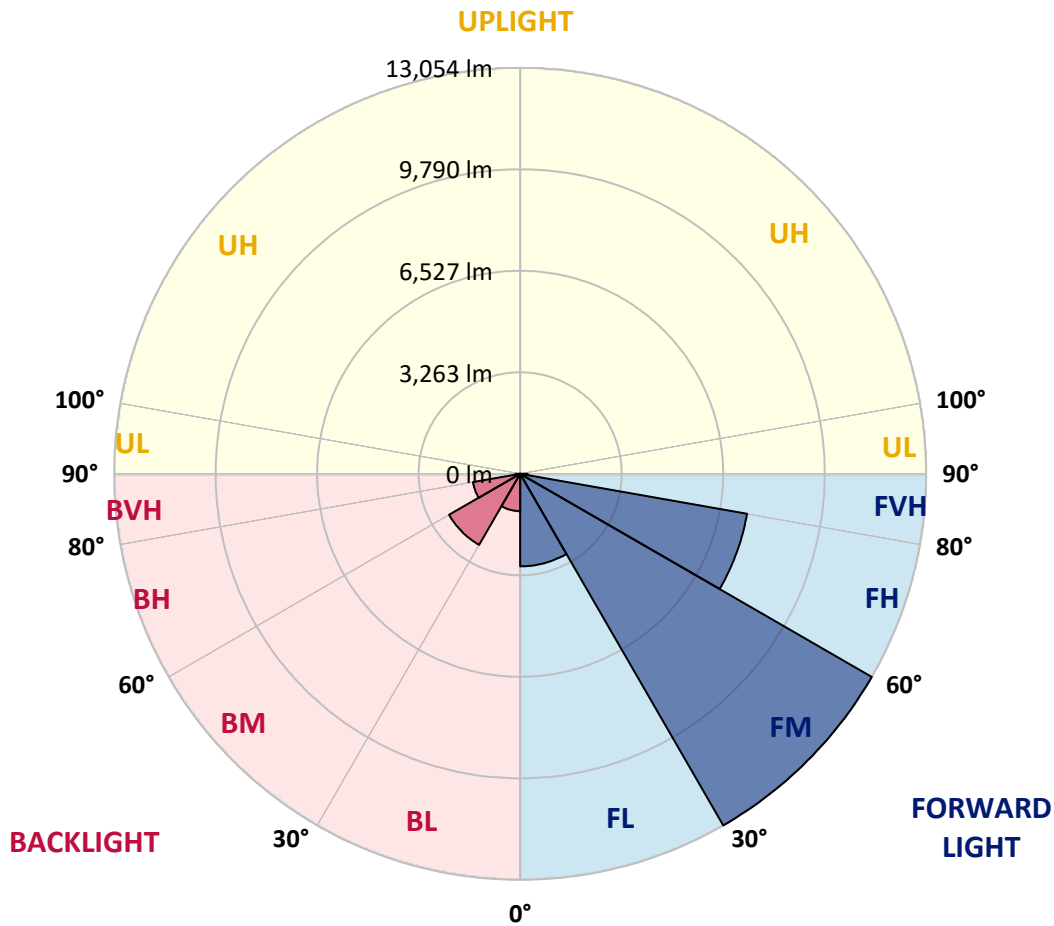
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.3	10.2			
FM (30°-60°)	13053.7	44.7			
FH (60°-80°)	7405.2	25.4			G3/7500
FVH (80°-90°)	238.9	0.8			G3/500
BL (0°-30°)	1200.8	4.1	B3/2500		
BM (30°-60°)	2638.1	9.0	B3/5000		
BH (60°-80°)	1540.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.1	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°	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7
2.5°	4289.3	4319.4	4281.8	4281.8	4155.2	4088.9	3962.3	3865.8	3692.5	3662.3
5°	5070.0	5107.7	5054.9	5032.3	4883.1	4746.0	4533.5	4324.0	4015.0	3983.4
7.5°	5674.4	5722.6	5675.9	5651.8	5519.1	5365.4	5116.7	4824.3	4388.8	4327.0
10°	6167.2	6174.7	6159.7	6168.7	6064.7	5938.1	5683.4	5342.8	4798.7	4714.3
12.5°	6446.0	6480.7	6510.8	6565.1	6547.0	6468.6	6239.5	5832.6	5232.8	5124.3
15°	6577.1	6637.4	6705.2	6830.3	6931.3	6950.9	6776.1	6358.6	5674.4	5543.2
17.5°	6623.9	6681.1	6788.1	6969.0	7186.0	7332.2	7253.8	6869.5	6111.4	5960.7
20°	6860.5	6877.1	6941.9	7113.7	7348.8	7591.4	7650.2	7360.8	6544.0	6373.7
22.5°	7366.9	7333.7	7351.8	7430.2	7599.0	7834.1	7968.2	7794.9	6988.6	6792.7
25°	8203.3	8106.9	8010.4	7920.0	8005.9	8138.5	8290.7	8229.0	7454.3	7205.6
27.5°	9259.8	9142.3	8929.8	8632.9	8528.9	8575.6	8643.4	8631.4	7885.3	7633.6
30°	10299.8	10162.6	9909.4	9479.9	9205.6	9082.0	9030.7	8996.1	8354.0	8085.8
32.5°	11130.2	11021.7	10773.0	10292.2	9894.3	9683.3	9513.0	9389.4	8843.9	8575.6
35°	11856.6	11755.6	11470.8	10946.3	10513.8	10289.2	10066.1	9802.4	9353.3	9082.0
37.5°	12519.8	12418.8	12028.4	11482.9	11047.3	10892.1	10693.1	10245.5	9864.2	9608.0
40°	12938.7	12916.1	12551.4	11933.5	11481.3	11404.5	11338.2	10759.4	10430.9	10192.7
42.5°	13045.8	13095.5	12806.1	12298.2	11867.2	11805.4	11960.6	11341.2	11066.9	10839.3
45°	12788.0	12931.2	12741.3	12396.2	12141.5	12108.3	12512.2	11977.2	11770.7	11562.7
47.5°	12135.4	12378.1	12299.7	12251.5	12215.3	12358.5	12997.5	12652.4	12568.0	12387.1
50°	10818.2	11277.9	11415.0	11719.5	12069.1	12552.9	13439.1	13389.4	13499.4	13317.0
52.5°	8540.9	9173.9	9969.7	10732.3	11620.0	12488.1	13924.4	14447.4	14911.6	14812.1
55°	7050.4	7335.2	7947.1	9345.7	10748.9	12215.3	14142.9	15301.9	16313.2	16224.3
57.5°	5905.0	6159.7	6536.4	7704.5	9431.6	11595.9	14278.6	15823.4	17273.3	17264.2
60°	4676.6	4946.4	5332.2	6159.7	7892.9	10525.8	14248.4	16417.2	18498.6	18573.9
62.5°	3290.1	3587.0	4015.0	4786.7	6320.9	9139.3	13633.5	16846.7	19940.9	20145.9
65°	2162.7	2358.7	2681.2	3347.3	4709.8	7356.3	12459.5	16902.5	21484.2	21830.8
67.5°	1516.2	1591.5	1781.4	2143.1	3104.7	5641.2	10589.1	16325.3	22513.6	22903.9
70°	1183.1	1220.8	1317.2	1461.9	1950.2	3793.5	8114.4	14824.2	22293.5	22700.4
72.5°	1021.8	1058.0	1094.2	1112.3	1308.2	2342.1	5496.5	12394.7	20221.2	20497.0
75°	926.9	935.9	966.1	960.0	997.7	1519.2	3172.5	9030.7	15954.5	15859.6
77.5°	779.2	791.2	841.0	833.4	886.2	1038.4	1647.3	5828.1	10343.5	9698.4
80°	660.1	666.2	720.4	711.4	770.1	752.1	841.0	2970.6	4387.3	3716.6
82.5°	229.1	283.3	550.1	566.7	587.8	455.2	485.3	1211.7	1339.8	1026.4
85°	111.5	119.1	280.3	397.9	396.4	229.1	236.6	432.5	422.0	331.6
87.5°	18.1	22.6	33.2	155.2	123.6	60.3	81.4	84.4	87.4	75.4
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°
3425.7	0°	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7	3425.7
3547.8	2.5°	3463.4	3388.0	3229.8	3083.6	2969.1	2859.0	2797.2	2744.5	2714.3	2708.3
3713.6	5°	3556.8	3401.6	3113.7	2871.1	2712.8	2595.3	2533.5	2494.3	2474.7	2462.7
3936.6	7.5°	3691.0	3463.4	3053.5	2777.6	2611.9	2527.5	2495.8	2489.8	2488.3	2489.8
4206.4	10°	3876.3	3564.4	3047.4	2755.0	2616.4	2569.7	2568.2	2569.7	2575.7	2577.2
4500.3	12.5°	4076.8	3668.4	3071.5	2774.6	2673.7	2648.0	2643.5	2642.0	2646.5	2649.5
4797.2	15°	4295.3	3805.5	3112.2	2816.8	2737.0	2709.8	2705.3	2696.3	2694.8	2693.2
5109.2	17.5°	4519.9	3941.2	3157.4	2862.0	2777.6	2740.0	2723.4	2702.3	2685.7	2681.2
5431.7	20°	4747.5	4075.3	3189.1	2884.7	2780.7	2727.9	2694.8	2658.6	2629.9	2613.4
5757.3	22.5°	4990.1	4215.5	3208.7	2878.6	2753.5	2681.2	2620.9	2578.7	2535.0	2506.4
6085.8	25°	5226.7	4337.5	3207.2	2847.0	2700.8	2608.8	2532.0	2477.7	2417.4	2387.3
6424.9	27.5°	5454.3	4447.6	3169.5	2791.2	2625.4	2522.9	2431.0	2366.2	2307.4	2278.8
6767.0	30°	5689.4	4539.5	3110.7	2709.8	2536.5	2423.5	2322.5	2266.7	2214.0	2186.9
7128.7	32.5°	5923.0	4623.9	3027.8	2608.8	2434.0	2325.5	2226.0	2174.8	2143.1	2143.1
7517.6	35°	6170.2	4682.7	2917.8	2491.3	2325.5	2221.5	2143.1	2113.0	2110.0	2091.9
7929.0	37.5°	6430.9	4720.3	2783.7	2370.7	2218.5	2120.5	2096.4	2060.3	2030.1	1990.9
8381.2	40°	6705.2	4758.0	2622.4	2245.6	2105.5	2051.2	2040.7	1992.4	1906.5	1810.1
8893.6	42.5°	7038.3	4783.6	2455.1	2120.5	1986.4	1968.3	1983.4	1900.5	1763.3	1691.0
9511.5	45°	7424.1	4825.8	2301.4	1997.0	1864.3	1864.3	1927.6	1819.1	1706.1	1660.9
10216.9	47.5°	7924.5	4923.8	2158.2	1861.3	1751.3	1781.4	1804.0	1721.1	1657.8	1602.1
11075.9	50°	8647.9	5158.9	2010.5	1724.2	1665.4	1725.7	1694.0	1645.8	1571.9	1526.7
12441.4	52.5°	9546.2	5297.6	1879.4	1600.6	1591.5	1651.8	1606.6	1561.4	1505.6	1445.3
13476.8	55°	10158.1	5323.2	1769.4	1510.1	1541.8	1535.8	1519.2	1478.5	1448.4	1368.5
14498.6	57.5°	10842.3	5374.4	1678.9	1455.9	1510.1	1443.8	1437.8	1403.1	1364.0	1309.7
15745.0	60°	11660.7	5454.3	1600.6	1434.8	1483.0	1383.5	1353.4	1339.8	1300.7	1273.5
17244.6	62.5°	12552.9	5526.7	1520.7	1437.8	1451.4	1324.8	1279.6	1275.0	1250.9	1241.9
18652.3	65°	13161.8	5329.2	1421.2	1434.8	1401.6	1264.5	1207.2	1205.7	1186.1	1183.1
19262.7	67.5°	12949.3	4703.8	1287.1	1392.6	1350.4	1204.2	1140.9	1134.9	1109.3	1110.8
18625.2	70°	11885.3	3811.5	1101.7	1288.6	1287.1	1149.9	1071.6	1052.0	1017.3	1023.3
16194.2	72.5°	9889.8	2824.4	853.0	1115.3	1186.1	1100.2	991.7	960.0	916.3	922.4
11954.6	75°	7142.3	1920.1	620.9	848.5	1032.4	1041.4	913.3	859.1	806.3	815.4
6654.0	77.5°	3654.8	1088.2	456.7	584.8	810.8	946.5	842.5	770.1	758.1	842.5
1918.6	80°	1192.1	545.6	316.5	409.9	532.0	774.7	738.5	655.6	652.6	672.2
402.4	82.5°	355.7	230.6	203.5	269.8	293.9	593.8	637.5	495.8	426.5	449.1
134.1	85°	122.1	111.5	116.0	134.1	140.2	348.1	446.1	328.6	310.5	342.1
30.1	87.5°	28.6	39.2	33.2	30.1	30.1	84.4	173.3	137.1	189.9	126.6
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>
3425.7
2708.3
2461.1
2494.3
2578.7
2651.0
2691.7
2685.7
2619.4
2507.9
2387.3
2277.3
2185.3
2144.7
2087.4
1984.9
1796.5
1692.5
1668.4
1600.6
1522.2
1433.3
1370.0
1291.6
1281.1
1241.9
1181.6
<i>1110.8</i>
1029.4
920.9
818.4
830.4
577.2
464.2
337.6
122.1
0.0

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