

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: P952509

Luminaire Tested: **GALN-SB6B-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952509  
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-SB6B-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

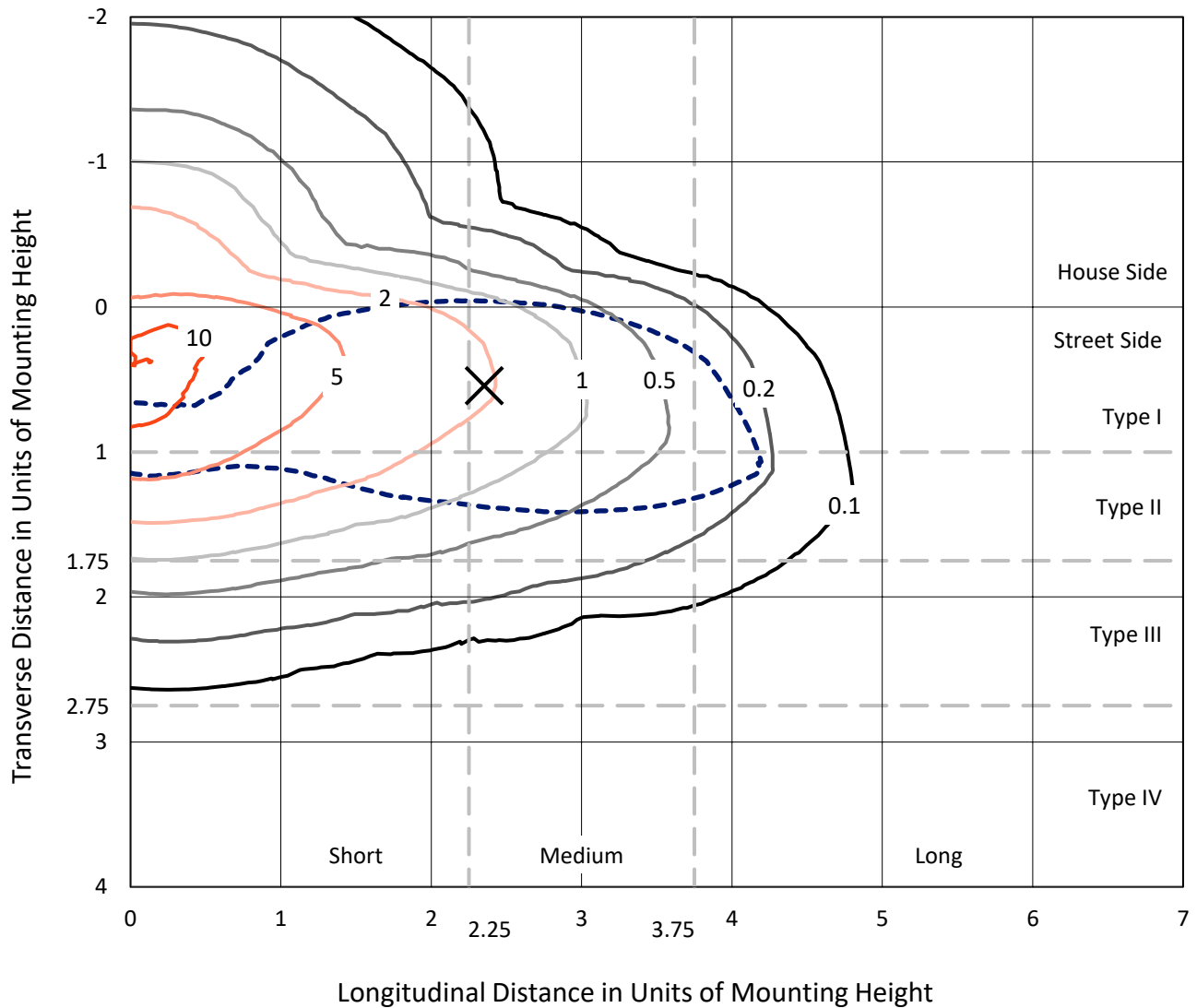
Lumens per Lamp: N/A  
Luminaire Lumens: 31252 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

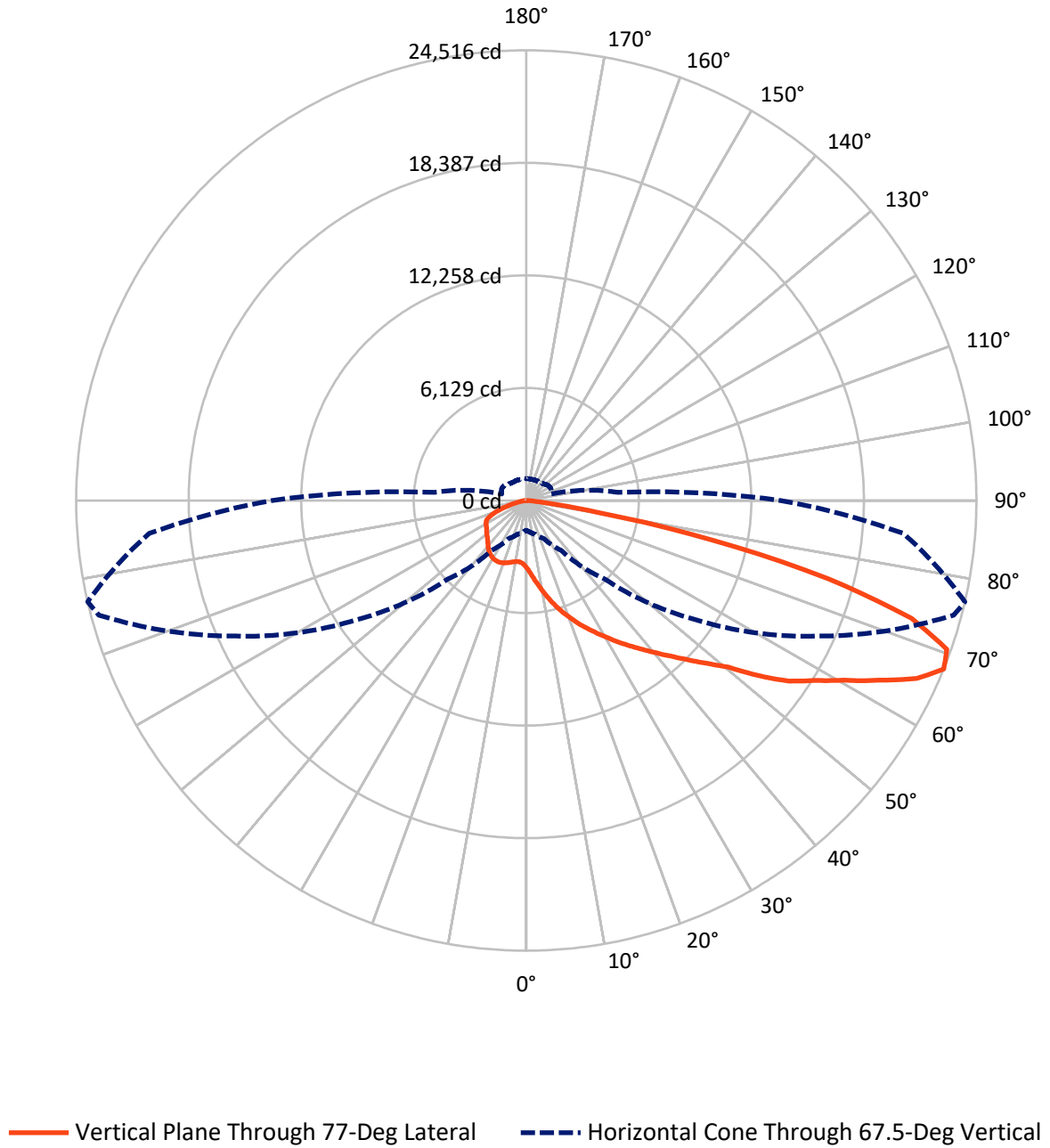
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5911.6	0.0	5911.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	25340.4	0.0	25340.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	31252.0	0.0	31252.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.0	1.3
10°-20°	1412.0	4.5
20°-30°	2666.0	8.5
30°-40°	4294.9	13.7
40°-50°	5874.7	18.8
50°-60°	6626.7	21.2
60°-70°	6185.2	19.8
70°-80°	3390.5	10.8
80°-90°	409.0	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°	31252.0	100.0
0°-180°	31252.0	100.0



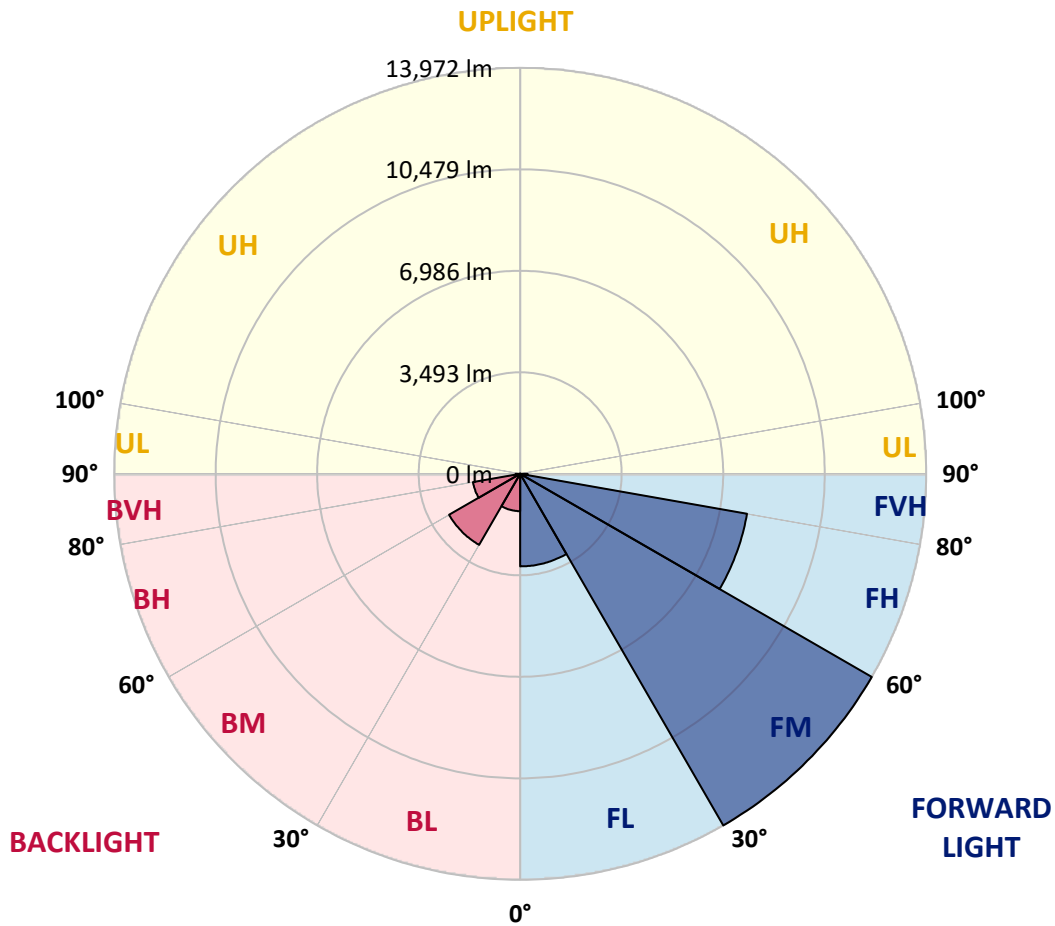
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3185.8	10.2			
FM (30°-60°)	13972.4	44.7			
FH (60°-80°)	7926.4	25.4			G4/12000
FVH (80°-90°)	255.8	0.8			G3/500
BL (0°-30°)	1285.3	4.1	B3/2500		
BM (30°-60°)	2823.8	9.0	B3/5000		
BH (60°-80°)	1649.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	153.2	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8
2.5°	4591.2	4623.5	4583.1	4583.1	4447.6	4376.6	4241.1	4137.9	3952.4	3920.1
5°	5426.8	5467.2	5410.7	5386.5	5226.8	5080.0	4852.5	4628.3	4297.6	4263.7
7.5°	6073.7	6125.4	6075.4	6049.5	5907.6	5743.0	5476.9	5163.9	4697.7	4631.5
10°	6601.3	6609.3	6593.2	6602.9	6491.6	6356.1	6083.4	5718.8	5136.5	5046.1
12.5°	6899.7	6936.8	6969.1	7027.2	7007.8	6923.9	6678.7	6243.1	5601.1	5484.9
15°	7040.1	7104.6	7177.2	7311.1	7419.2	7440.1	7253.0	6806.1	6073.7	5933.4
17.5°	7090.1	7151.4	7265.9	7459.5	7691.8	7848.3	7764.4	7353.0	6541.6	6380.3
20°	7343.3	7361.1	7430.5	7614.4	7866.0	8125.7	8188.7	7878.9	7004.6	6822.3
22.5°	7885.4	7849.9	7869.2	7953.1	8133.8	8385.5	8529.1	8343.5	7480.5	7270.7
25°	8780.7	8677.5	8574.2	8477.4	8569.4	8711.3	8874.3	8808.1	7978.9	7712.8
27.5°	9911.6	9785.7	9558.3	9240.5	9129.2	9179.2	9251.8	9238.9	8440.3	8170.9
30°	11024.7	10877.9	10606.9	10147.1	9853.5	9721.2	9666.4	9629.3	8942.0	8654.9
32.5°	11913.6	11797.4	11531.2	11016.6	10590.7	10364.9	10182.6	10050.3	9466.3	9179.2
35°	12691.1	12583.1	12278.2	11716.8	11253.8	11013.4	10774.6	10492.3	10011.6	9721.2
37.5°	13401.0	13292.9	12875.0	12291.1	11824.8	11658.7	11445.7	10966.6	10558.5	10284.2
40°	13849.4	13825.2	13434.8	12773.4	12289.4	12207.2	12136.2	11516.7	11165.0	10910.2
42.5°	13964.0	14017.2	13707.5	13163.8	12702.4	12636.3	12802.4	12139.4	11845.8	11602.2
45°	13688.1	13841.4	13638.1	13268.7	12996.0	12960.5	13392.9	12820.2	12599.2	12376.6
47.5°	12989.6	13249.3	13165.4	13113.8	13075.1	13228.3	13912.3	13542.9	13452.6	13259.0
50°	11579.6	12071.7	12218.5	12544.3	12918.6	13436.4	14385.0	14331.8	14449.5	14254.3
52.5°	9142.1	9819.6	10671.4	11487.7	12437.9	13367.1	14904.5	15464.2	15961.1	15854.6
55°	7546.6	7851.5	8506.5	10003.5	11505.4	13075.1	15138.4	16378.9	17461.4	17366.2
57.5°	6320.6	6593.2	6996.5	8246.7	10095.5	12412.1	15283.6	16937.1	18489.0	18479.3
60°	5005.8	5294.6	5707.5	6593.2	8448.4	11266.7	15251.3	17572.7	19800.6	19881.2
62.5°	3521.6	3839.4	4297.6	5123.6	6765.8	9782.5	14593.1	18032.5	21344.4	21563.8
65°	2315.0	2524.7	2869.9	3582.9	5041.3	7874.1	13336.4	18092.2	22996.3	23367.4
67.5°	1622.9	1703.6	1906.8	2294.0	3323.2	6038.3	11334.4	17474.3	24098.2	24516.0
70°	1266.4	1306.7	1409.9	1564.8	2087.5	4060.5	8685.5	15867.6	23862.6	24298.2
72.5°	1093.8	1132.5	1171.2	1190.6	1400.3	2506.9	5883.4	13267.1	21644.5	21939.7
75°	992.1	1001.8	1034.1	1027.6	1067.9	1626.1	3395.8	9666.4	17077.5	16975.8
77.5°	834.0	846.9	900.2	892.1	948.6	1111.5	1763.2	6238.3	11071.5	10381.0
80°	706.6	713.0	771.1	761.4	824.4	805.0	900.2	3179.6	4696.1	3978.2
82.5°	245.2	303.3	588.8	606.6	629.2	487.2	519.5	1297.0	1434.1	1098.6
85°	119.4	127.4	300.1	425.9	424.3	245.2	253.3	463.0	451.7	354.9
87.5°	19.4	24.2	35.5	166.2	132.3	64.5	87.1	90.3	93.6	80.7
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°
3666.8	0°	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8
3797.5	2.5°	3707.2	3626.5	3457.1	3300.6	3178.0	3060.3	2994.1	2937.7	2905.4	2898.9
3975.0	5°	3807.2	3641.0	3332.9	3073.2	2903.8	2778.0	2711.8	2669.9	2648.9	2636.0
4213.7	7.5°	3950.8	3707.2	3268.4	2973.1	2795.7	2705.4	2671.5	2665.0	2663.4	2665.0
4502.5	10°	4149.2	3815.2	3261.9	2949.0	2800.5	2750.5	2748.9	2750.5	2757.0	2758.6
4817.1	12.5°	4363.7	3926.6	3287.7	2969.9	2861.8	2834.4	2829.6	2828.0	2832.8	2836.0
5134.9	15°	4597.7	4073.4	3331.3	3015.1	2929.6	2900.6	2895.7	2886.0	2884.4	2882.8
5468.8	17.5°	4838.0	4218.5	3379.7	3063.5	2973.1	2932.8	2915.1	2892.5	2874.7	2869.9
5814.0	20°	5081.6	4362.1	3413.6	3087.7	2976.4	2919.9	2884.4	2845.7	2815.1	2797.3
6162.5	22.5°	5341.3	4512.2	3434.5	3081.2	2947.3	2869.9	2805.4	2760.2	2713.4	2682.8
6514.1	25°	5594.6	4642.8	3432.9	3047.4	2890.9	2792.5	2710.2	2652.1	2587.6	2555.3
6877.1	27.5°	5838.2	4760.6	3392.6	2987.7	2810.2	2700.5	2602.1	2532.7	2469.8	2439.2
7243.3	30°	6089.9	4859.0	3329.7	2900.6	2715.0	2594.0	2486.0	2426.3	2369.8	2340.8
7630.5	32.5°	6339.9	4949.3	3240.9	2792.5	2605.3	2489.2	2382.7	2327.9	2294.0	2294.0
8046.7	35°	6604.5	5012.2	3123.2	2666.6	2489.2	2377.9	2294.0	2261.7	2258.5	2239.1
8487.1	37.5°	6883.6	5052.6	2979.6	2537.6	2374.6	2269.8	2244.0	2205.3	2173.0	2131.1
8971.1	40°	7177.2	5092.9	2807.0	2403.7	2253.7	2195.6	2184.3	2132.7	2040.7	1937.5
9519.6	42.5°	7533.7	5120.3	2627.9	2269.8	2126.2	2106.9	2123.0	2034.3	1887.5	1810.0
10181.0	45°	7946.7	5165.5	2463.4	2137.5	1995.5	1995.5	2063.3	1947.1	1826.2	1777.8
10936.0	47.5°	8482.3	5270.4	2310.1	1992.3	1874.6	1906.8	1931.0	1842.3	1774.5	1714.8
11855.5	50°	9256.6	5522.0	2152.0	1845.5	1782.6	1847.1	1813.3	1761.6	1682.6	1634.2
13317.1	52.5°	10218.1	5670.4	2011.7	1713.2	1703.6	1768.1	1719.7	1671.3	1611.6	1547.1
14425.3	55°	10873.0	5697.9	1893.9	1616.4	1650.3	1643.9	1626.1	1582.6	1550.3	1464.8
15519.1	57.5°	11605.4	5752.7	1797.1	1558.4	1616.4	1545.5	1539.0	1501.9	1460.0	1401.9
16853.2	60°	12481.4	5838.2	1713.2	1535.8	1587.4	1480.9	1448.7	1434.1	1392.2	1363.2
18458.4	62.5°	13436.4	5915.6	1627.7	1539.0	1553.5	1418.0	1369.6	1364.8	1339.0	1329.3
19965.1	65°	14088.2	5704.3	1521.3	1535.8	1500.3	1353.5	1292.2	1290.6	1269.6	1266.4
20618.5	67.5°	13860.7	5034.8	1377.7	1490.6	1445.4	1289.0	1221.2	1214.7	1187.3	1188.9
19936.1	70°	12721.8	4079.8	1179.3	1379.3	1377.7	1230.9	1147.0	1126.0	1088.9	1095.4
17334.0	72.5°	10585.9	3023.2	913.1	1193.8	1269.6	1177.6	1061.5	1027.6	980.8	987.3
12796.0	75°	7645.0	2055.2	664.6	908.2	1105.1	1114.7	977.6	919.5	863.1	872.7
7122.3	77.5°	3912.0	1164.7	488.8	625.9	867.9	1013.1	901.8	824.4	811.4	901.8
2053.6	80°	1276.1	584.0	338.8	438.8	569.5	829.2	790.5	701.7	698.5	719.5
430.7	82.5°	380.7	246.8	217.8	288.8	314.6	635.6	682.4	530.7	456.5	480.7
143.6	85°	130.7	119.4	124.2	143.6	150.0	372.7	477.5	351.7	332.3	366.2
32.3	87.5°	30.7	41.9	35.5	32.3	32.3	90.3	185.5	146.8	203.3	135.5
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>
3666.8
2898.9
2634.4
2669.9
2760.2
2837.6
2881.2
2874.7
2803.8
2684.4
2555.3
2437.6
2339.2
2295.6
2234.3
2124.6
1922.9
1811.6
1785.8
1713.2
1629.3
1534.2
1466.4
1382.5
1371.2
1329.3
1264.8
<i>1188.9</i>
1101.8
985.7
876.0
888.9
617.9
496.9
361.4
130.7
0.0

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