

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: P953910

Luminaire Tested: **GALN-SB7B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34033 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

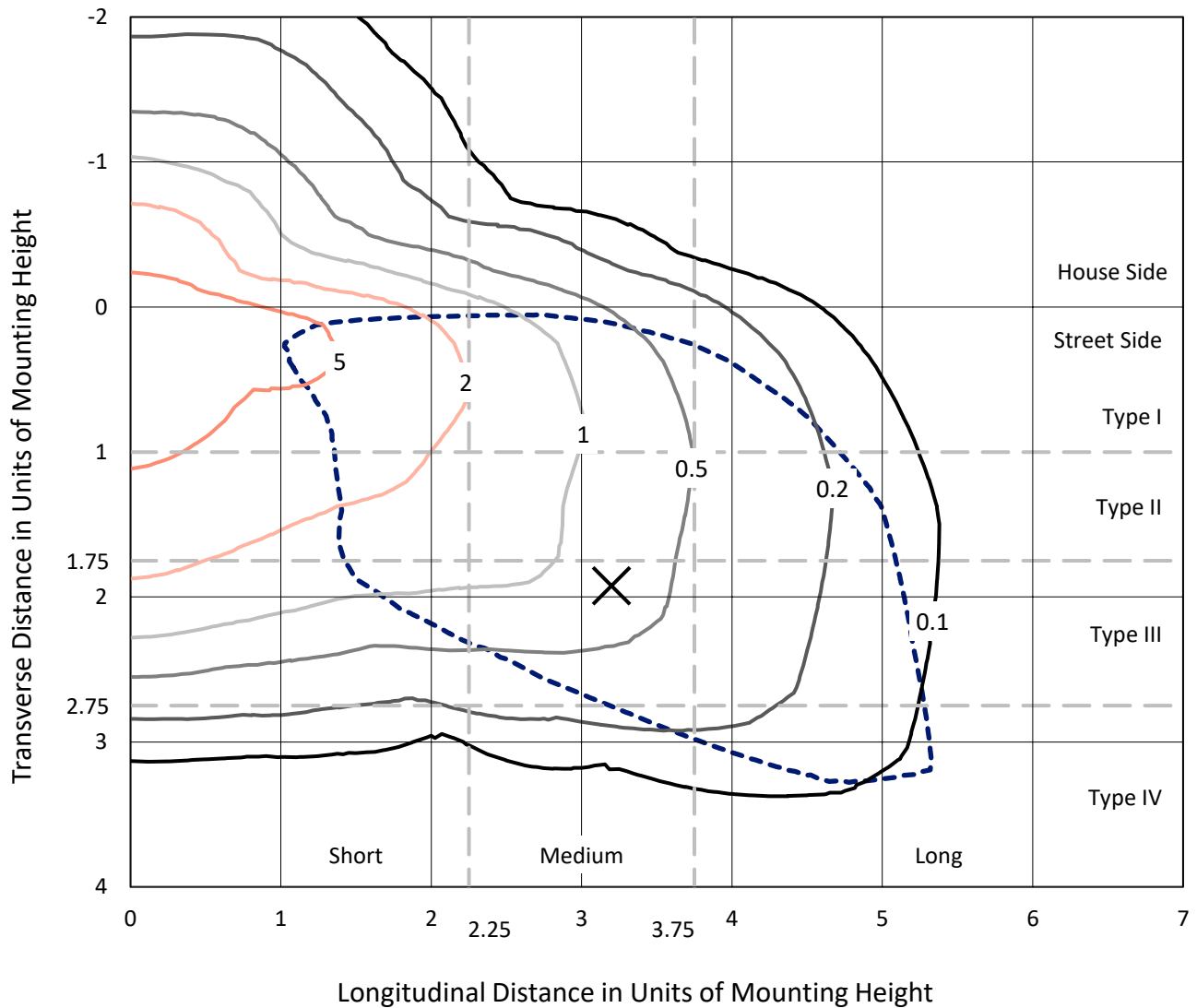
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

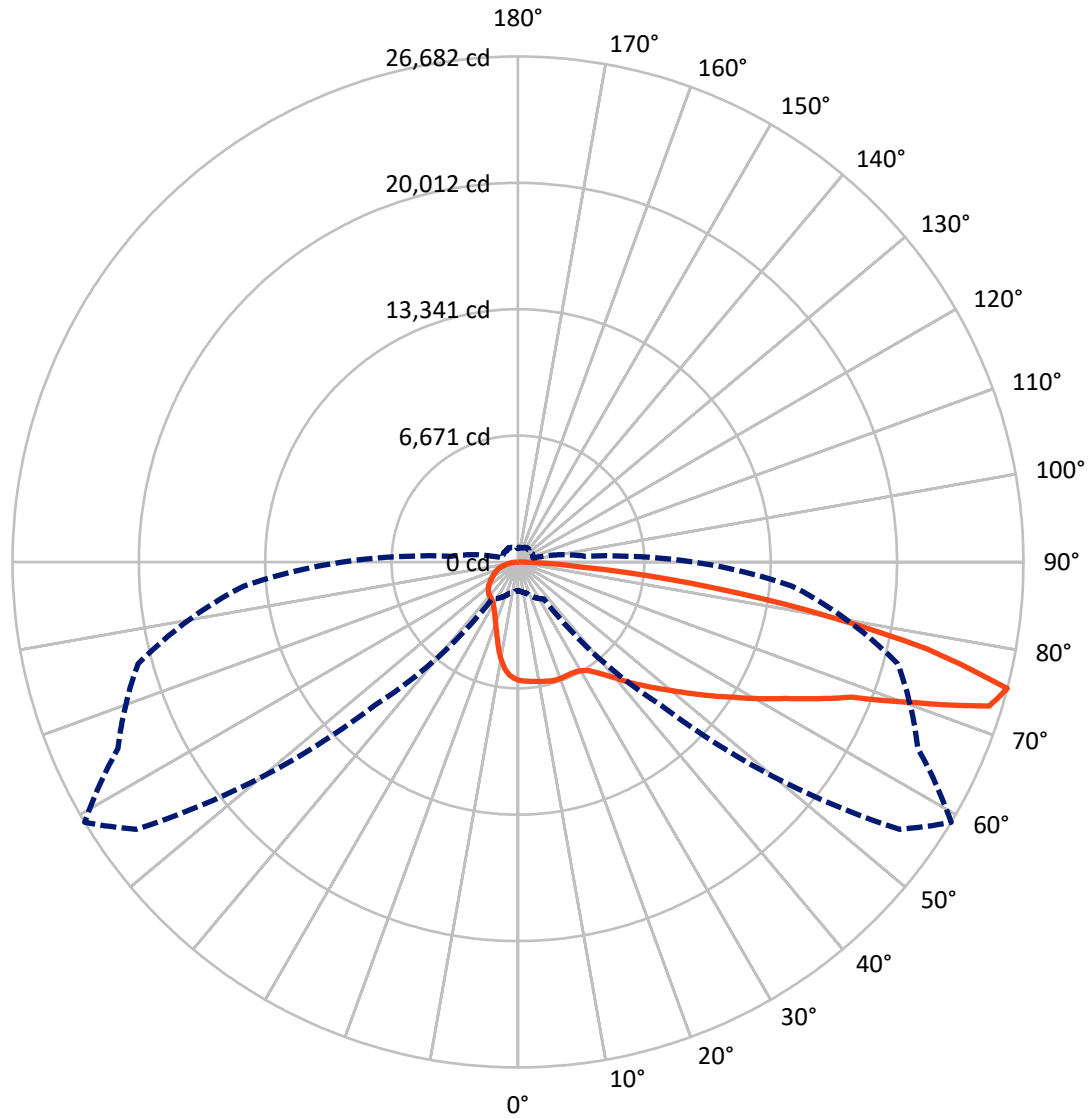
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6383.1	0.0	6383.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27649.9	0.0	27649.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	34033.0	0.0	34033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.1	1.6
10°-20°	1431.7	4.2
20°-30°	2174.6	6.4
30°-40°	3232.5	9.5
40°-50°	4807.3	14.1
50°-60°	6525.4	19.2
60°-70°	7966.4	23.4
70°-80°	6251.9	18.4
80°-90°	1083.0	3.2
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°	34033.0	100.0
0°-180°	34033.0	100.0

Coefficient of Utilization



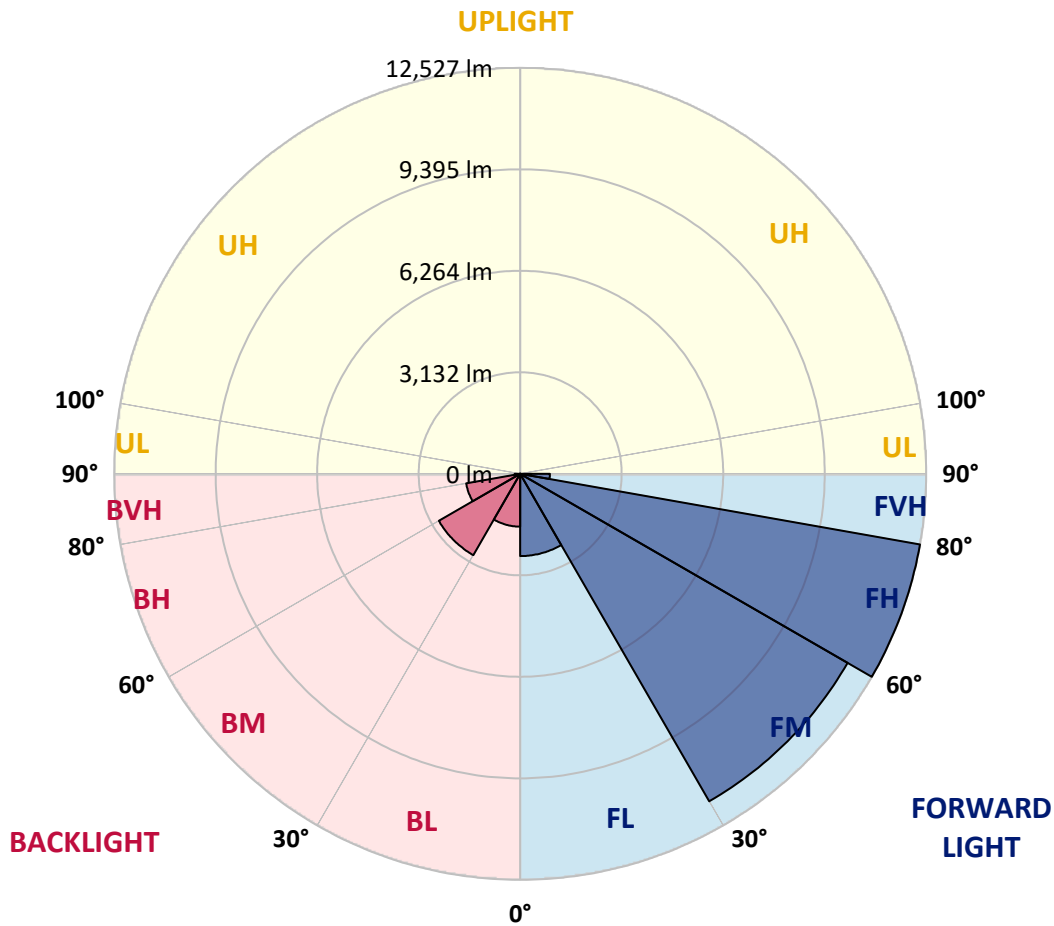
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2537.5	7.5			
FM (30°-60°)	11667.9	34.3			
FH (60°-80°)	12527.2	36.8			G5
FVH (80°-90°)	917.2	2.7			G5
BL (0°-30°)	1628.9	4.8	B3/2500		
BM (30°-60°)	2897.3	8.5	B3/5000		
BH (60°-80°)	1691.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	165.8	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7
2.5°	6299.8	6277.8	6299.8	6290.6	6287.0	6279.6	6281.5	6294.3	6287.0	6296.1
5°	6257.7	6244.9	6266.8	6261.3	6285.1	6288.8	6312.6	6327.2	6336.4	6338.2
7.5°	6188.1	6175.3	6206.4	6232.0	6283.3	6297.9	6347.4	6371.2	6384.0	6406.0
10°	5933.6	5928.1	6005.0	6102.0	6222.9	6297.9	6373.0	6413.3	6433.4	6492.0
12.5°	5483.2	5490.6	5591.3	5778.0	6019.7	6261.3	6402.3	6460.9	6492.0	6565.2
15°	5053.0	5051.2	5161.0	5360.6	5699.3	6100.2	6416.9	6517.6	6570.7	6678.7
17.5°	4804.0	4796.7	4873.6	5025.5	5340.4	5853.1	6380.3	6548.8	6662.3	6797.8
20°	4758.2	4743.6	4783.9	4858.9	5082.3	5582.1	6285.1	6548.8	6735.5	6911.3
22.5°	4924.8	4901.0	4884.6	4875.4	4974.3	5358.7	6177.1	6526.8	6843.5	7074.2
25°	5259.9	5223.3	5139.0	5056.7	5027.4	5258.1	6081.9	6521.3	7004.6	7293.9
27.5°	5801.8	5756.0	5585.8	5388.0	5210.4	5309.3	6039.8	6554.3	7182.2	7526.4
30°	6473.7	6424.3	6210.1	5906.2	5587.6	5499.7	6092.9	6651.3	7409.2	7835.8
32.5°	7076.0	7021.1	6838.0	6528.6	6098.4	5829.3	6261.3	6836.2	7766.2	8266.1
35°	7610.6	7546.5	7381.8	7096.2	6724.5	6292.5	6565.2	7163.9	8273.4	8965.4
37.5°	8134.2	8059.2	7879.8	7577.7	7317.7	6909.4	6984.5	7585.0	8947.1	9814.9
40°	8720.1	8612.1	8394.2	8095.8	7843.1	7632.6	7535.6	8101.3	9631.8	10763.3
42.5°	9287.6	9185.1	8925.1	8670.7	8353.9	8293.5	8174.5	8705.4	10380.6	11805.0
45°	9899.1	9776.5	9461.6	9139.3	8939.8	8732.9	8793.3	9309.6	11114.8	12866.8
47.5°	10472.2	10334.9	9963.2	9604.4	9494.5	9102.7	9360.9	9974.2	11878.2	13943.4
50°	10781.6	10646.1	10336.7	10012.6	9926.6	9558.6	9976.0	10704.7	12678.3	15016.2
52.5°	11039.7	10893.2	10488.6	10309.2	10283.6	10054.7	10734.0	11539.5	13478.3	15964.6
55°	11314.3	11151.4	10635.1	10474.0	10591.2	10611.3	11632.9	12486.0	14324.2	16889.1
57.5°	11631.1	11424.2	10776.1	10613.1	10891.4	11263.1	12665.5	13467.3	15155.3	17745.9
60°	11929.5	11720.8	11047.0	10834.7	11215.5	12019.2	13850.0	14655.5	16096.4	18509.4
62.5°	11988.1	11816.0	11263.1	11261.2	11654.9	12901.6	15252.4	15854.7	16918.4	19263.7
65°	10973.8	10865.8	10538.1	11244.8	12284.7	14172.2	16814.0	17388.9	17963.8	19922.7
67.5°	8352.1	8366.7	8342.9	9706.9	11775.7	15997.5	19075.1	19031.1	19254.5	20662.4
70°	3819.0	3905.1	4465.3	6700.7	9434.1	16208.1	22813.6	22244.2	20874.8	21619.9
72.5°	2063.3	2129.2	2358.1	3246.0	5671.8	14410.2	25607.4	26012.0	23029.6	22264.3
75°	1514.1	1550.7	1710.0	2063.3	2381.9	10710.2	24605.9	26682.0	23298.7	20761.2
77.5°	1133.3	1149.7	1279.7	1634.9	1219.3	5646.2	19660.9	22097.7	19944.7	17057.5
80°	822.0	840.3	937.4	1226.6	855.0	2065.1	13500.3	15510.5	13659.6	10873.1
82.5°	567.5	574.9	617.0	834.8	596.8	801.9	7660.1	9095.4	7625.3	3815.4
85°	342.4	351.5	369.8	487.0	338.7	380.8	3306.4	3419.9	2279.3	911.7
87.5°	141.0	150.1	164.8	205.0	133.6	106.2	545.6	684.7	426.6	267.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953910
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6246.7	0°	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7	6246.7
6265.0	2.5°	6255.8	6243.0	6208.2	6160.6	6116.7	6061.8	6038.0	6017.8	5999.5	5964.7
6314.4	5°	6294.3	6259.5	6166.1	6045.3	5908.0	5757.9	5611.4	5510.7	5424.7	5360.6
6371.2	7.5°	6352.9	6287.0	6116.7	5869.5	5554.6	5232.4	4941.3	4734.4	4578.8	4522.1
6451.7	10°	6413.3	6334.6	6038.0	5602.2	5058.5	4562.3	4176.0	3963.7	3839.2	3798.9
6546.9	12.5°	6484.7	6369.3	5915.3	5230.6	4503.8	3960.0	3623.1	3498.7	3434.6	3412.6
6664.1	15°	6589.0	6398.6	5730.4	4765.6	3974.7	3520.6	3302.8	3216.7	3183.8	3181.9
6784.9	17.5°	6667.8	6404.1	5443.0	4267.6	3568.2	3255.2	3075.7	3042.8	3064.8	3097.7
6903.9	20°	6755.6	6354.7	5065.8	3813.6	3282.6	3022.6	2947.6	2969.6	3022.6	3070.2
7061.4	22.5°	6817.9	6265.0	4609.9	3460.2	3035.5	2889.0	2885.3	2931.1	2960.4	2984.2
7246.3	25°	6872.8	6113.0	4126.6	3163.6	2832.2	2808.4	2848.7	2834.1	2813.9	2834.1
7431.2	27.5°	6913.1	5873.2	3694.5	2903.6	2689.4	2753.5	2729.7	2696.8	2694.9	2705.9
7649.1	30°	6900.3	5552.8	3339.4	2656.5	2588.7	2651.0	2594.2	2588.7	2583.3	2588.7
7976.8	32.5°	6900.3	5188.5	3066.6	2486.2	2524.7	2500.9	2495.4	2482.6	2460.6	2458.8
8421.7	35°	6938.7	4824.2	2832.2	2394.7	2471.6	2414.8	2418.5	2387.4	2341.6	2319.6
9011.2	37.5°	7017.4	4531.2	2599.7	2350.7	2378.2	2376.4	2361.7	2308.6	2228.1	2158.5
9747.2	40°	7207.9	4445.2	2440.5	2330.6	2334.3	2356.2	2317.8	2215.3	2032.2	1918.7
10494.1	42.5°	7506.3	4589.8	2405.7	2281.2	2305.0	2326.9	2251.9	2013.9	1883.9	1816.2
11277.7	45°	7885.2	4842.5	2480.7	2209.8	2235.4	2273.9	2050.5	1937.0	1878.4	1880.2
12054.0	47.5°	8364.9	5107.9	2619.9	2147.5	2134.7	2156.7	1916.8	1847.3	1766.7	1786.9
12799.1	50°	8919.6	5377.1	2751.7	2063.3	2023.0	1951.6	1830.8	1764.9	1662.4	1614.8
13518.6	52.5°	9520.1	5637.0	2804.8	1960.8	1902.2	1819.8	1772.2	1691.7	1567.2	1488.4
14197.8	55°	10089.5	5873.2	2746.2	1838.1	1781.4	1717.3	1710.0	1660.5	1526.9	1417.0
14802.0	57.5°	10627.8	6070.9	2599.7	1713.6	1658.7	1620.3	1669.7	1645.9	1477.5	1336.5
15373.2	60°	11083.6	6206.4	2387.4	1587.3	1548.9	1528.7	1603.8	1596.5	1407.9	1250.4
15885.8	62.5°	11446.1	6259.5	2153.0	1466.5	1457.3	1420.7	1512.2	1512.2	1320.0	1166.2
16336.2	65°	11729.9	6208.2	1915.0	1347.5	1365.8	1310.9	1400.6	1389.6	1226.6	1091.2
16854.3	67.5°	11980.7	6039.8	1651.4	1230.3	1272.4	1202.8	1283.4	1257.8	1124.1	1016.1
17302.9	70°	12092.4	5648.0	1351.1	1113.1	1164.4	1096.6	1166.2	1118.6	1008.8	935.5
16810.4	72.5°	11195.3	4694.2	1063.7	990.5	1034.4	979.5	1039.9	985.0	884.3	851.3
14516.4	75°	9262.0	3522.5	818.4	856.8	889.8	847.7	887.9	847.7	756.1	779.9
10723.0	77.5°	6726.4	2378.2	626.1	715.8	730.5	708.5	743.3	697.5	615.1	609.7
5344.1	80°	3344.9	1393.2	490.7	565.7	560.2	545.6	585.9	563.9	494.3	523.6
1442.7	82.5°	968.5	596.8	357.0	397.3	386.3	390.0	419.3	430.2	644.4	638.9
448.5	85°	303.9	234.3	214.2	221.5	210.5	216.0	247.2	490.7	454.0	265.5
139.1	87.5°	78.7	80.6	53.1	56.8	58.6	69.6	78.7	298.4	142.8	93.4
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>
6246.7
5948.3
5307.5
4423.2
3736.7
3418.1
3189.2
3110.5
3086.7
2997.0
2846.9
2724.2
2608.9
2482.6
2341.6
2182.3
1933.3
1816.2
1889.4
1838.1
1627.6
1486.6
1417.0
1329.2
1244.9
1160.7
1083.8
1008.8
920.9
823.9
712.2
582.2
518.1
653.6
287.4
98.9
0.0

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