

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: P942525

Luminaire Tested: **GALN-SB6C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39129 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

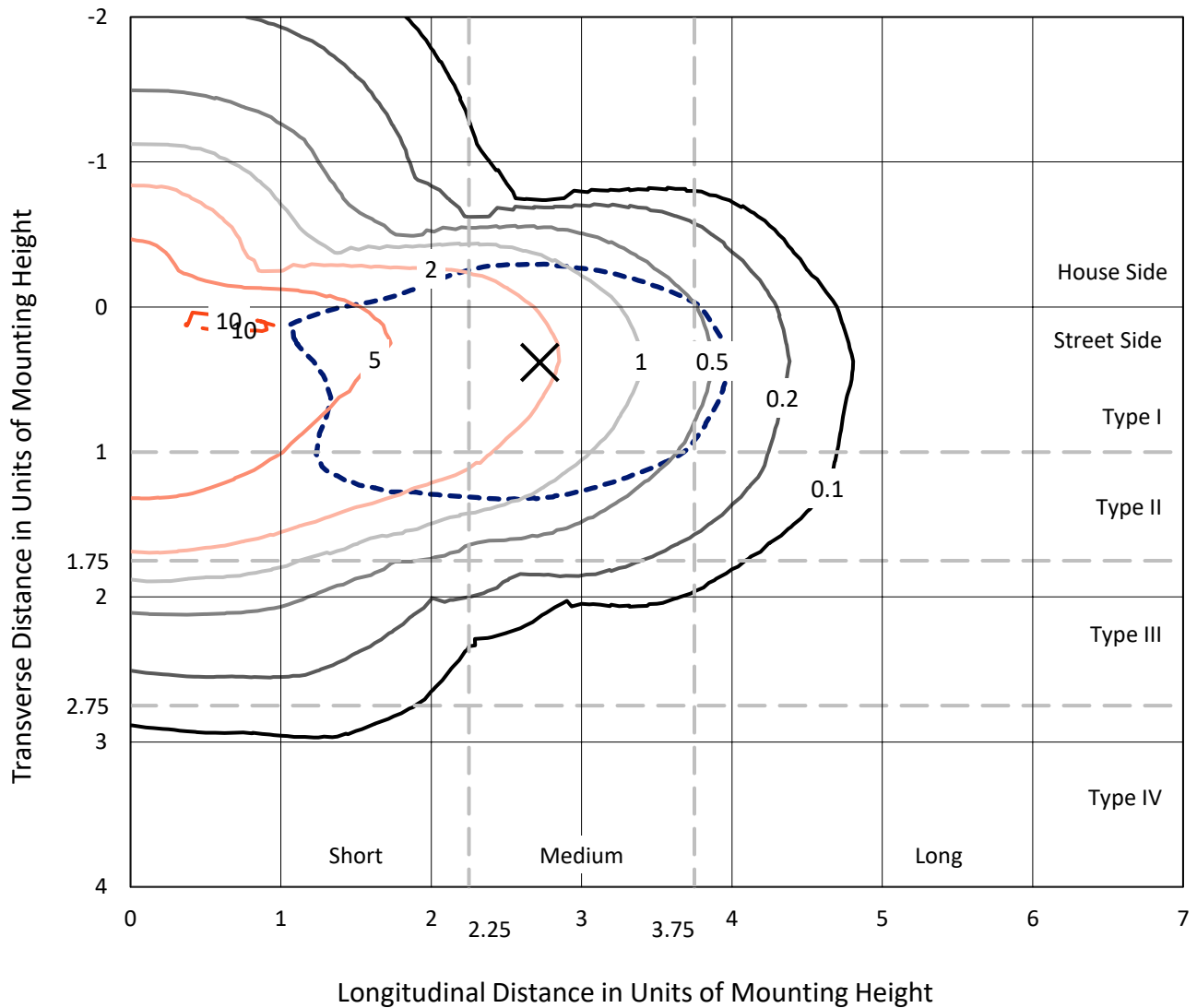
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

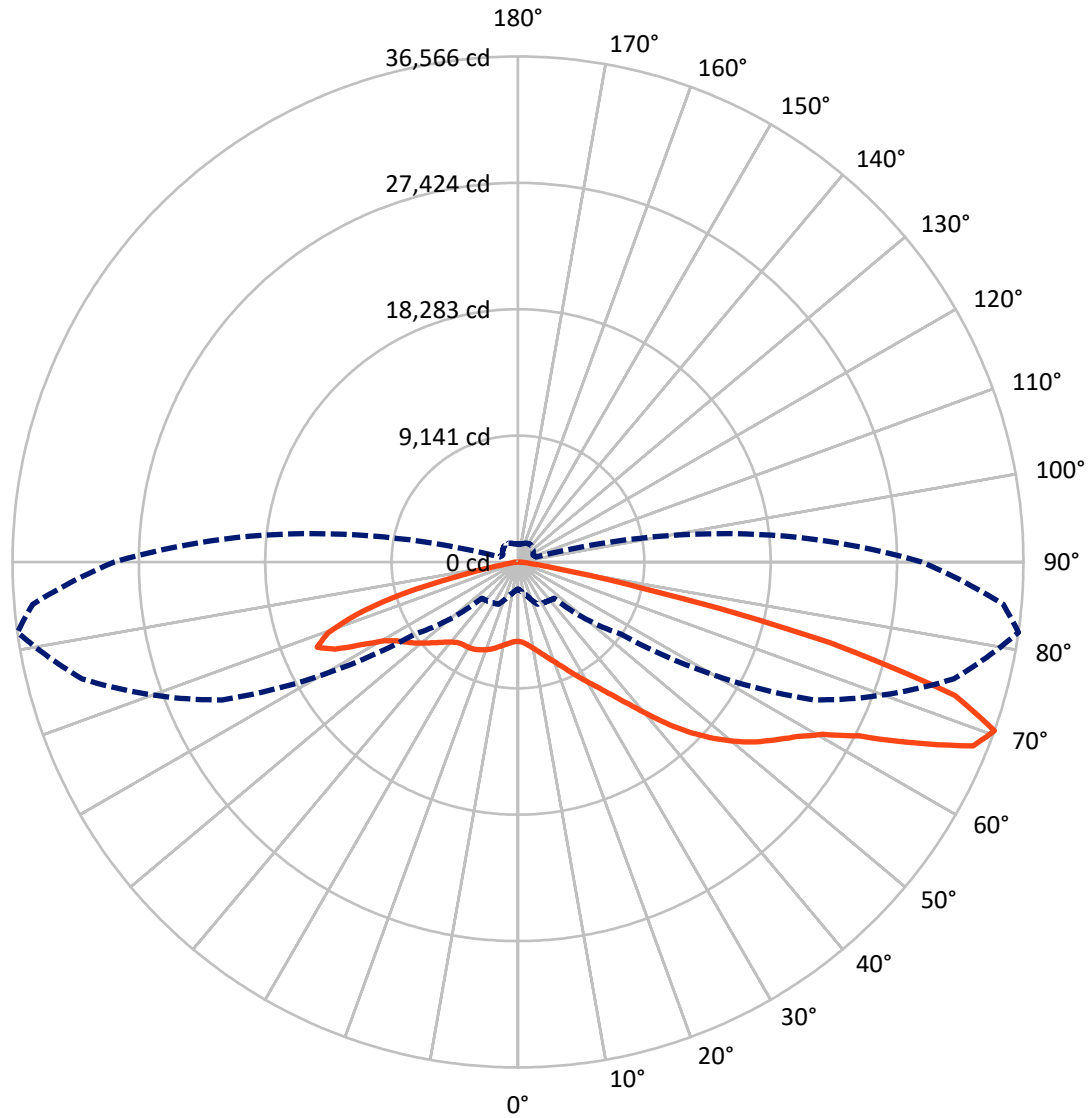
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9646.3	0.0	9646.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	29482.7	0.0	29482.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	39129.0	0.0	39129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.7	1.4
10°-20°	1556.2	4.0
20°-30°	2603.4	6.7
30°-40°	4067.2	10.4
40°-50°	6477.4	16.6
50°-60°	9014.1	23.0
60°-70°	9429.2	24.1
70°-80°	4928.2	12.6
80°-90°	511.7	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°	39129.0	100.0
0°-180°	39129.0	100.0

Coefficient of Utilization



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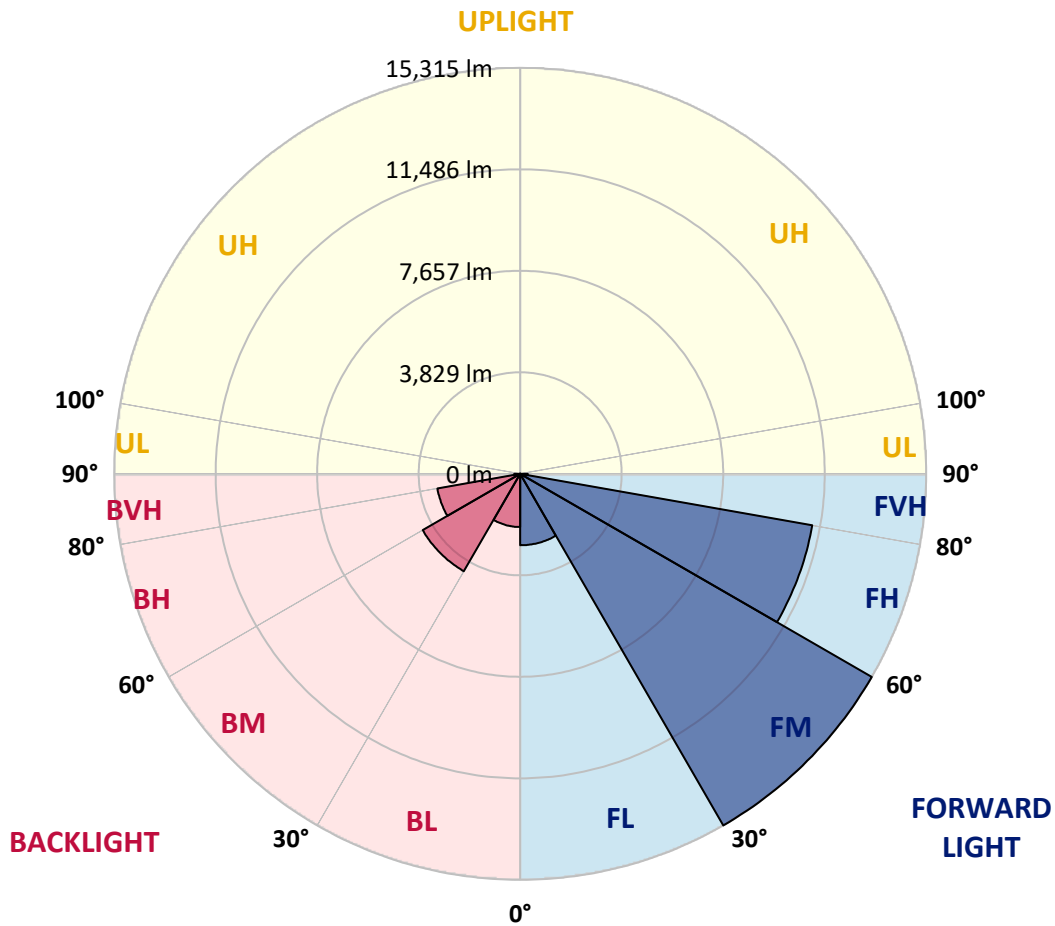
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.5	6.9			
FM (30°-60°)	15314.7	39.1			
FH (60°-80°)	11187.1	28.6			G4/12000
FVH (80°-90°)	286.5	0.7			G3/500
BL (0°-30°)	2006.8	5.1	B3/2500		
BM (30°-60°)	4244.0	10.8	B3/5000		
BH (60°-80°)	3170.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	225.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8
2.5°	5873.8	5907.1	5896.7	5886.3	5886.3	5871.8	5869.7	5848.9	5832.3	5805.3
5°	5948.6	5983.9	5979.7	5988.0	6015.0	6021.3	6027.5	6015.0	5981.8	5948.6
7.5°	5882.1	5921.6	5934.0	5983.9	6066.9	6141.7	6197.7	6220.6	6189.4	6141.7
10°	5657.9	5701.5	5745.1	5863.5	6010.9	6187.4	6336.8	6426.1	6419.9	6374.2
12.5°	5203.2	5248.9	5342.3	5572.8	5842.7	6154.1	6432.4	6619.2	6683.6	6650.4
15°	4839.8	4879.3	4949.9	5186.6	5537.5	6010.9	6467.7	6831.0	6995.0	6976.3
17.5°	4829.5	4846.1	4889.7	5001.8	5271.7	5786.6	6430.3	7038.6	7352.2	7350.1
20°	5012.2	5018.4	5043.3	5066.2	5219.8	5616.4	6334.8	7211.0	7752.9	7752.9
22.5°	5265.5	5261.3	5286.2	5265.5	5340.2	5601.8	6274.6	7362.5	8199.3	8232.5
25°	5645.4	5624.7	5618.5	5570.7	5585.2	5736.8	6341.0	7534.9	8728.7	8797.3
27.5°	6152.1	6118.8	6096.0	5986.0	5948.6	6015.0	6544.5	7742.5	9318.4	9436.8
30°	6812.3	6752.1	6718.9	6527.9	6392.9	6403.3	6851.8	8018.6	9935.1	10126.1
32.5°	7713.4	7620.0	7530.7	7217.2	6970.1	6889.1	7248.3	8400.7	10603.6	10908.8
35°	8722.5	8647.8	8552.3	8068.5	7688.5	7501.7	7784.0	8934.3	11386.4	11870.2
37.5°	9694.2	9629.9	9675.5	9023.6	8533.6	8261.6	8485.8	9650.6	12351.9	13066.1
40°	10699.1	10649.3	10655.5	10032.7	9461.7	9156.5	9337.1	10549.7	13458.5	14488.4
42.5°	11791.3	11753.9	11629.3	11077.0	10435.5	10151.0	10317.1	11587.8	14646.2	16107.9
45°	13014.2	12991.4	12875.1	12241.8	11506.8	11187.1	11411.3	12733.9	15840.0	17631.9
47.5°	14071.0	14089.7	14075.2	13541.6	12779.6	12310.3	12578.2	13929.9	16950.9	19064.5
50°	14579.7	14677.3	14820.6	14654.5	14181.1	13703.5	13755.4	15084.3	18009.8	20407.9
52.5°	14314.0	14498.8	14889.1	15154.9	15337.6	15237.9	15098.8	16230.4	19006.4	21620.5
55°	13323.6	13583.1	14230.9	14872.5	15804.8	16529.4	16712.1	17501.1	19978.1	22687.7
57.5°	11519.3	11940.8	12522.1	13819.8	15389.5	17154.3	18593.2	19263.9	21007.9	23827.6
60°	8425.6	8990.4	9712.9	11643.9	13936.1	16820.1	20194.0	21971.3	22471.7	25303.8
62.5°	5392.1	5741.0	6405.4	8224.2	10859.0	15107.1	20684.0	25355.7	24952.9	27724.8
65°	3691.7	3915.9	4524.2	5545.8	7020.0	11245.2	19371.8	27892.9	28893.7	31561.7
67.5°	2682.6	2852.8	3371.9	4266.8	4574.1	6654.5	15032.4	27776.7	32724.5	35515.0
70°	1955.9	2076.3	2512.3	3371.9	3519.3	3702.0	9106.6	23611.6	32641.4	36565.6
72.5°	1449.3	1532.3	1825.1	2616.1	2848.7	2499.9	4507.6	17160.6	28048.7	33073.3
75°	1048.5	1110.8	1326.8	2001.5	2279.8	1904.0	2248.6	10028.5	19564.9	23264.9
77.5°	801.4	849.2	990.4	1465.9	1825.1	1428.5	1395.3	4613.5	9276.9	9322.6
80°	643.7	674.8	751.6	1031.9	1399.4	1069.3	909.4	1862.4	2931.7	2481.2
82.5°	473.4	525.3	635.3	724.6	1000.8	737.1	554.4	940.6	1115.0	959.2
85°	269.9	305.2	384.1	519.1	639.5	450.6	317.7	417.3	519.1	425.6
87.5°	95.5	124.6	135.0	203.5	278.2	186.9	122.5	120.4	170.3	126.7
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°
5736.8	0°	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8	5736.8
5799.1	2.5°	5778.3	5767.9	5726.4	5670.4	5612.2	5556.2	5537.5	5498.0	5471.0	5456.5
5934.0	5°	5894.6	5861.4	5763.8	5639.2	5508.4	5367.2	5267.6	5176.2	5109.8	5047.5
6118.8	7.5°	6060.7	6002.6	5834.4	5616.4	5383.8	5149.2	4974.8	4841.9	4752.6	4694.5
6334.8	10°	6253.8	6164.5	5907.1	5581.1	5221.9	4885.5	4680.0	4565.8	4509.7	4478.6
6581.9	12.5°	6476.0	6349.3	5981.8	5500.1	4974.8	4590.7	4449.5	4416.3	4418.4	4420.4
6893.3	15°	6750.0	6573.5	6042.0	5323.6	4653.0	4364.4	4339.5	4393.4	4449.5	4476.5
7246.3	17.5°	7059.4	6810.2	6052.4	5032.9	4337.4	4219.0	4297.9	4414.2	4499.3	4536.7
7640.8	20°	7391.6	7051.1	5977.7	4621.8	4077.8	4100.7	4241.9	4391.4	4484.8	4532.6
8091.3	22.5°	7771.6	7308.6	5799.1	4190.0	3866.1	3972.0	4138.1	4283.4	4381.0	4428.7
8620.8	25°	8205.5	7597.2	5518.8	3826.6	3683.3	3826.6	3992.7	4113.1	4192.0	4235.6
9212.5	27.5°	8687.2	7898.2	5145.1	3538.0	3523.5	3677.1	3814.2	3907.6	3949.1	3982.3
9841.6	30°	9171.0	8172.3	4692.4	3320.0	3384.4	3529.7	3627.3	3668.8	3681.3	3687.5
10543.4	32.5°	9694.2	8409.0	4217.0	3139.4	3251.5	3386.4	3444.6	3463.3	3405.1	3365.7
11394.7	35°	10327.5	8662.3	3751.9	2996.1	3120.7	3236.9	3255.6	3239.0	3170.5	3089.5
12461.9	37.5°	11110.2	8977.9	3380.2	2894.4	2998.2	3075.0	3052.2	3048.0	3054.2	2958.7
13745.1	40°	12069.5	9389.0	3108.2	2815.5	2898.5	2915.1	2850.8	2886.0	2917.2	2771.9
15152.8	42.5°	13134.6	9885.2	2935.9	2761.5	2815.5	2776.0	2676.3	2715.8	2711.6	2520.6
16566.8	45°	14220.5	10425.1	2875.7	2722.0	2738.6	2659.7	2549.7	2560.1	2472.9	2300.5
17922.6	47.5°	15300.2	11004.4	2913.0	2688.8	2643.1	2553.8	2468.7	2423.0	2294.3	2165.6
19222.3	50°	16359.1	11612.7	3050.1	2622.4	2512.3	2460.4	2398.1	2317.1	2180.1	2070.1
20451.5	52.5°	17341.2	12225.2	3203.7	2512.3	2348.3	2379.4	2340.0	2246.6	2111.6	1999.5
21614.2	55°	18271.4	12837.7	3263.9	2360.7	2194.6	2308.8	2286.0	2113.7	1951.7	1860.4
22830.9	57.5°	19284.6	13574.8	3197.5	2167.7	2070.1	2227.9	2140.7	1949.6	1856.2	1787.7
24415.1	60°	20688.2	14731.3	3054.2	1928.9	1951.7	2107.4	1957.9	1879.0	1777.3	1700.5
26790.4	62.5°	23019.9	16888.6	2823.8	1692.2	1812.6	1928.9	1870.7	1791.8	1688.0	1613.3
30851.7	65°	26466.5	19886.7	2389.8	1507.4	1656.9	1754.5	1777.3	1698.4	1590.4	1511.5
34410.4	67.5°	29373.3	21767.9	1808.5	1353.7	1497.0	1613.3	1677.6	1600.8	1486.6	1409.8
35243.0	70°	29213.5	20401.7	1380.7	1202.2	1355.8	1474.2	1557.2	1497.0	1374.5	1301.8
32012.3	72.5°	25947.4	17067.1	1117.0	1048.5	1212.6	1328.8	1428.5	1382.8	1258.2	1187.6
23451.7	75°	19062.5	12115.2	892.8	892.8	1034.0	1177.3	1287.3	1258.2	1144.0	1094.2
9845.8	77.5°	8035.3	5082.8	699.7	741.2	859.6	1011.2	1148.2	1158.6	1058.9	1121.2
2603.7	80°	2136.5	1401.5	533.6	583.4	674.8	834.7	998.7	994.5	886.6	828.4
967.6	82.5°	813.9	552.3	380.0	411.1	487.9	639.5	791.1	816.0	708.0	612.5
380.0	85°	313.5	236.7	234.6	247.1	284.5	423.6	598.0	618.7	533.6	452.6
105.9	87.5°	81.0	70.6	87.2	83.1	130.8	226.3	342.6	355.0	326.0	188.9
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>
5736.8
5473.1
5072.4
4707.0
4486.9
4424.6
4474.4
4545.0
4545.0
4441.2
4248.1
3994.8
3702.0
3378.1
3093.7
2964.9
2776.0
2518.5
2306.8
2165.6
2061.8
2001.5
1852.1
1781.5
1696.3
1613.3
1515.7
1411.9
<i>1308.1</i>
1187.6
1079.7
1017.4
770.3
612.5
467.2
269.9
0.0

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