

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: P943715

Luminaire Tested: **GALN-SB8B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943715
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-SB8B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39232 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

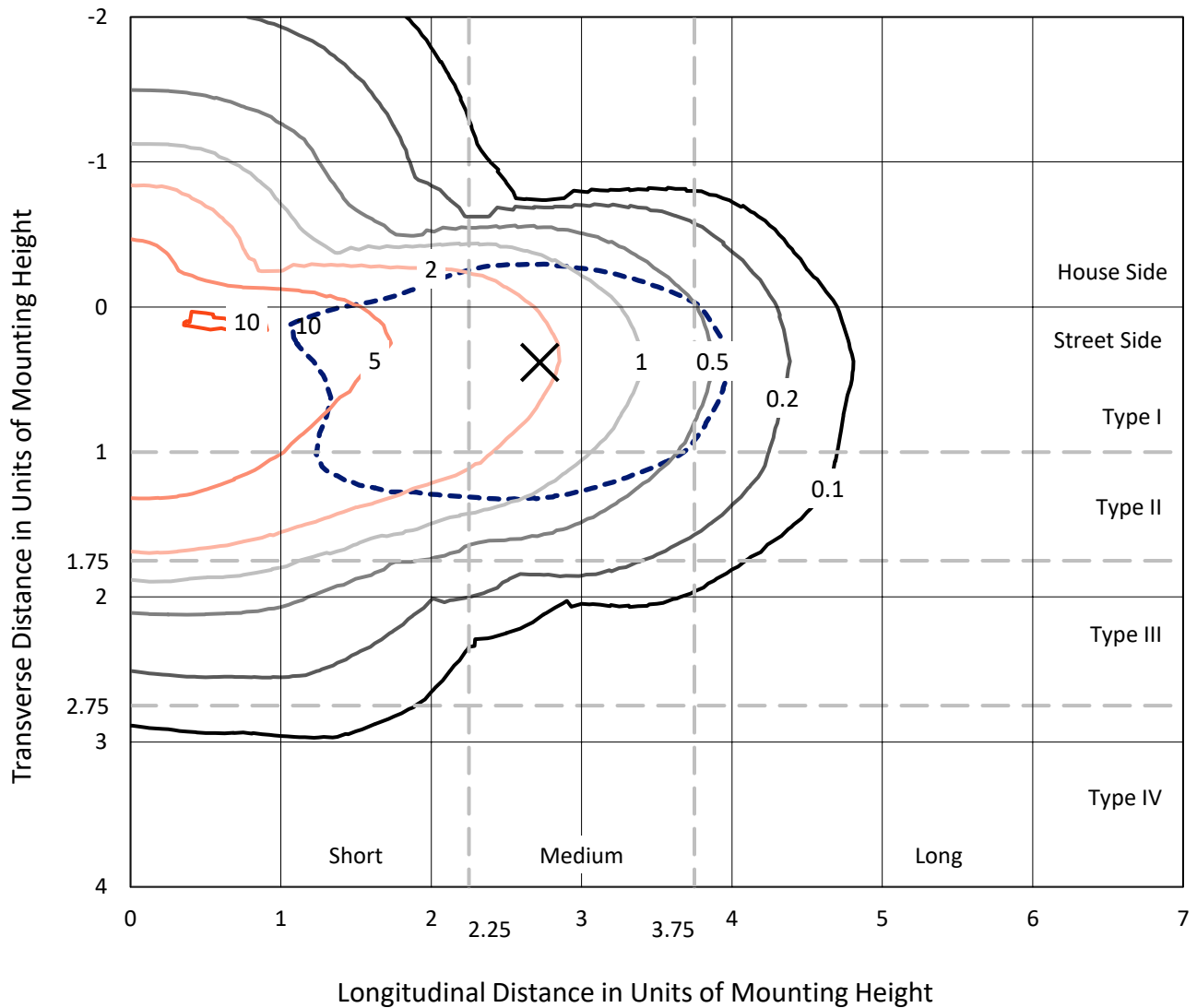
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

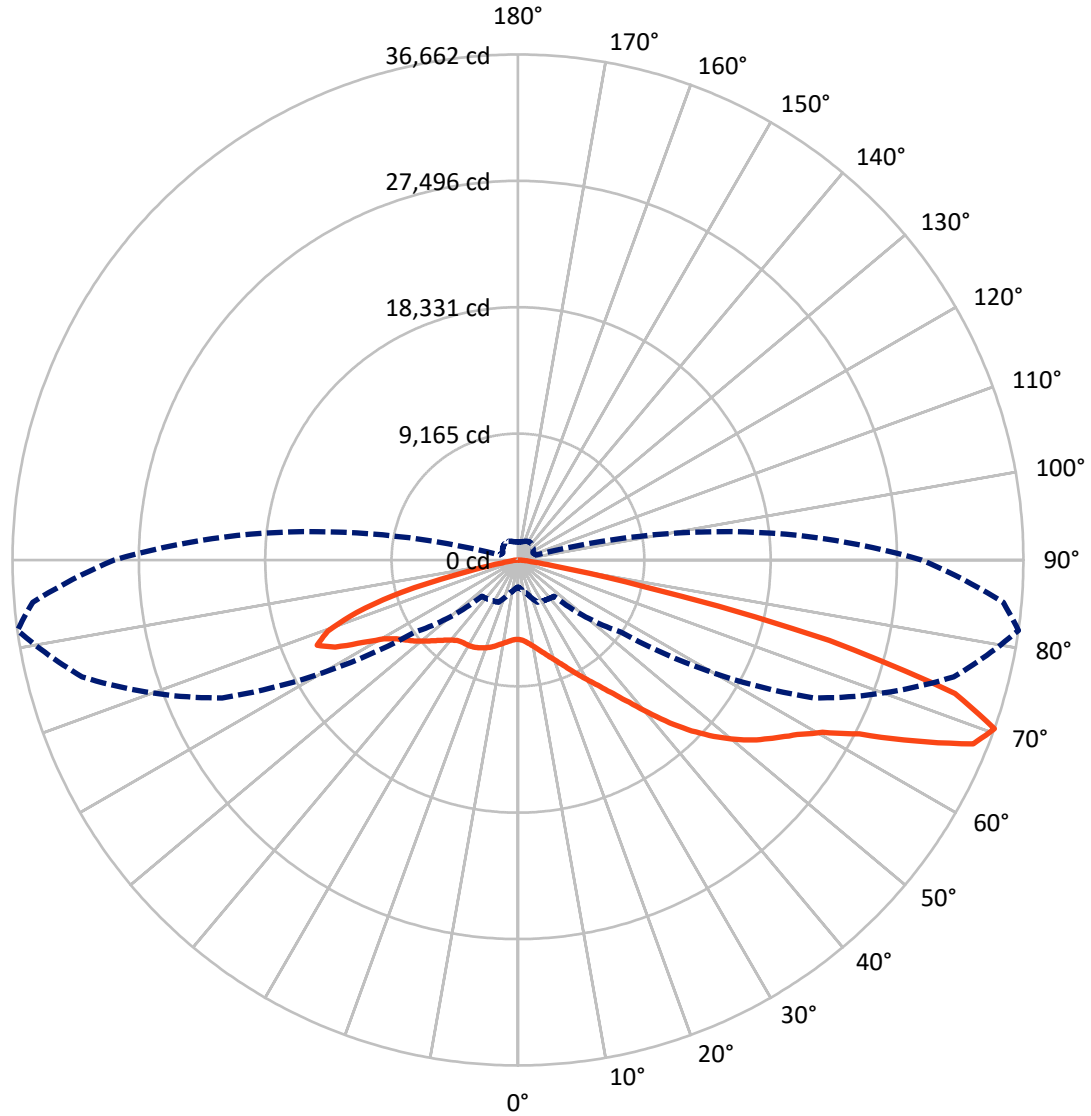
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	9671.7	0.0	9671.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	29560.3	0.0	29560.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	39232.0	0.0	39232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.1	1.4
10°-20°	1560.3	4.0
20°-30°	2610.2	6.7
30°-40°	4077.9	10.4
40°-50°	6494.5	16.6
50°-60°	9037.8	23.0
60°-70°	9454.0	24.1
70°-80°	4941.2	12.6
80°-90°	513.1	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°	39232.0	100.0
0°-180°	39232.0	100.0

Coefficient of Utilization



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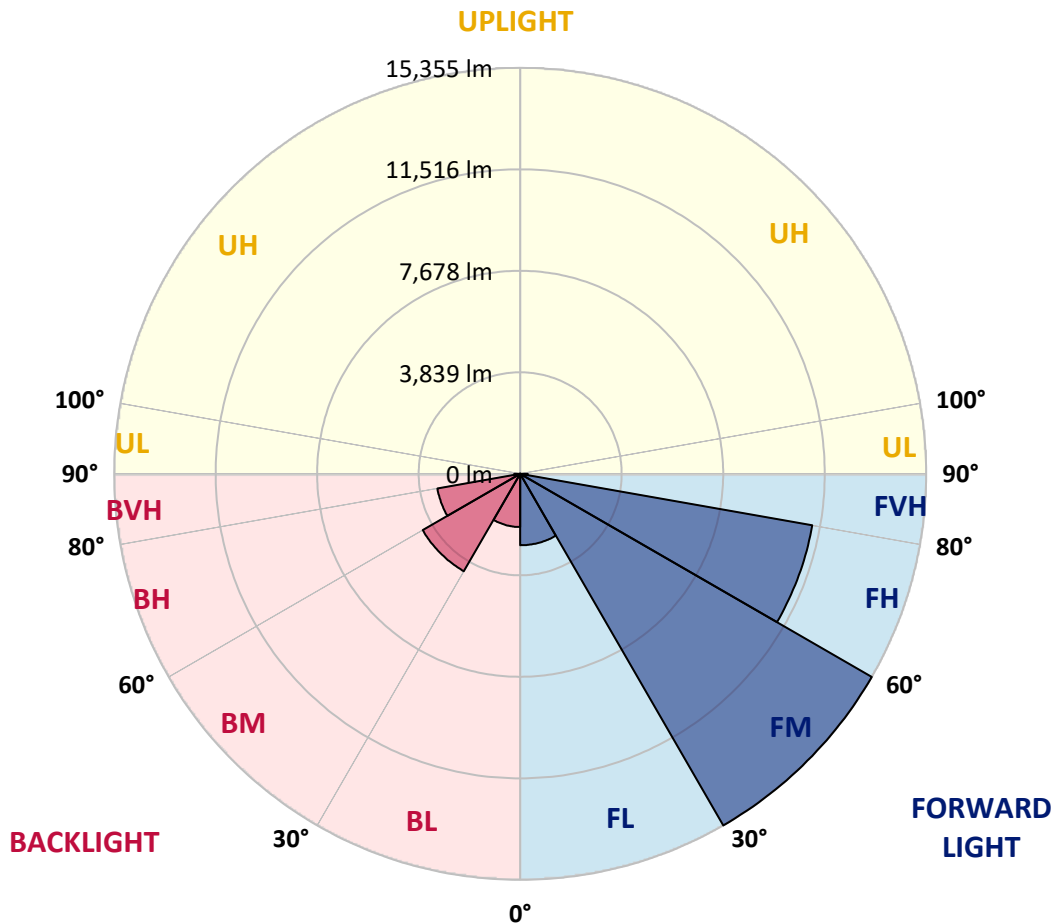
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2701.6	6.9			
FM (30°-60°)	15355.0	39.1			
FH (60°-80°)	11216.5	28.6			G4/12000
FVH (80°-90°)	287.2	0.7			G3/500
BL (0°-30°)	2012.1	5.1	B3/2500		
BM (30°-60°)	4255.1	10.8	B3/5000		
BH (60°-80°)	3178.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	225.9	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°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
2.5°	5889.3	5922.6	5912.2	5901.8	5901.8	5887.2	5885.1	5864.3	5847.7	5820.6
5°	5964.2	5999.6	5995.5	6003.8	6030.9	6037.1	6043.3	6030.9	5997.5	5964.2
7.5°	5897.6	5937.2	5949.7	5999.6	6082.9	6157.8	6214.1	6237.0	6205.7	6157.8
10°	5672.8	5716.5	5760.2	5878.9	6026.7	6203.6	6353.5	6443.0	6436.8	6391.0
12.5°	5216.9	5262.7	5356.4	5587.4	5858.1	6170.3	6449.3	6636.6	6701.2	6667.9
15°	4852.6	4892.1	4962.9	5200.2	5552.1	6026.7	6484.7	6849.0	7013.4	6994.7
17.5°	4842.2	4858.8	4902.5	5015.0	5285.6	5801.9	6447.2	7057.2	7371.5	7369.4
20°	5025.4	5031.6	5056.6	5079.5	5233.5	5631.2	6351.4	7230.0	7773.3	7773.3
22.5°	5279.3	5275.2	5300.2	5279.3	5354.3	5616.6	6291.1	7381.9	8220.9	8254.2
25°	5660.3	5639.5	5633.2	5585.4	5599.9	5751.9	6357.7	7554.7	8751.7	8820.4
27.5°	6168.3	6134.9	6112.0	6001.7	5964.2	6030.9	6561.7	7762.9	9342.9	9461.6
30°	6830.3	6769.9	6736.6	6545.1	6409.7	6420.1	6869.8	8039.8	9961.2	10152.7
32.5°	7733.7	7640.1	7550.5	7236.2	6988.5	6907.3	7267.4	8422.8	10631.5	10937.6
35°	8745.5	8670.5	8574.8	8089.7	7708.8	7521.4	7804.5	8957.8	11416.4	11901.4
37.5°	9719.7	9655.2	9701.0	9047.3	8556.0	8283.3	8508.2	9676.0	12384.4	13100.5
40°	10727.3	10677.3	10683.6	10059.1	9486.6	9180.6	9361.7	10577.4	13494.0	14526.5
42.5°	11822.3	11784.8	11659.9	11106.2	10462.9	10177.7	10344.3	11618.3	14684.7	16150.3
45°	13048.5	13025.6	12909.0	12274.1	11537.1	11216.5	11441.4	12767.4	15881.7	17678.3
47.5°	14108.1	14126.8	14112.2	13577.2	12813.2	12342.8	12611.3	13966.5	16995.5	19114.7
50°	14618.1	14716.0	14859.6	14693.1	14218.4	13739.6	13791.7	15124.0	18057.2	20461.6
52.5°	14351.7	14536.9	14928.3	15194.8	15378.0	15278.0	15138.6	16273.1	19056.4	21677.4
55°	13358.7	13618.9	14268.4	14911.6	15846.4	16572.9	16756.1	17547.2	20030.7	22747.4
57.5°	11549.6	11972.2	12555.1	13856.2	15430.0	17199.5	18642.2	19314.6	21063.2	23890.3
60°	8447.8	9014.0	9738.5	11674.5	13972.8	16864.3	20247.2	22029.2	22530.9	25370.4
62.5°	5406.3	5756.1	6422.2	8245.8	10887.6	15146.9	20738.5	25422.4	25018.6	27797.7
65°	3701.4	3926.2	4536.2	5560.4	7038.4	11274.8	19422.8	27966.4	28969.8	31644.8
67.5°	2689.6	2860.3	3380.8	4278.0	4586.1	6672.0	15071.9	27849.8	32810.6	35608.5
70°	1961.0	2081.8	2518.9	3380.8	3528.6	3711.8	9130.6	23673.8	32727.3	36661.9
72.5°	1453.1	1536.3	1829.9	2623.0	2856.2	2506.4	4519.5	17205.7	28122.5	33160.3
75°	1051.3	1113.7	1330.2	2006.8	2285.8	1909.0	2254.5	10054.9	19616.4	23326.1
77.5°	803.6	851.4	993.0	1469.7	1829.9	1432.3	1398.9	4625.7	9301.3	9347.1
80°	645.3	676.6	753.6	1034.6	1403.1	1072.1	911.8	1867.3	2939.4	2487.7
82.5°	474.6	526.7	637.0	726.5	1003.4	739.0	555.8	943.0	1117.9	961.8
85°	270.6	306.0	385.1	520.4	641.2	451.7	318.5	418.4	520.4	426.8
87.5°	95.8	124.9	135.3	204.0	279.0	187.4	122.8	120.7	170.7	127.0
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°
5751.9	0°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
5814.4	2.5°	5793.5	5783.1	5741.5	5685.3	5627.0	5570.8	5552.1	5512.5	5485.4	5470.9
5949.7	5°	5910.1	5876.8	5779.0	5654.1	5522.9	5381.3	5281.4	5189.8	5123.2	5060.8
6134.9	7.5°	6076.7	6018.4	5849.7	5631.2	5398.0	5162.8	4987.9	4854.7	4765.1	4706.9
6351.4	10°	6270.3	6180.7	5922.6	5595.8	5235.6	4898.4	4692.3	4577.8	4521.6	4490.4
6599.2	12.5°	6493.0	6366.0	5997.5	5514.6	4987.9	4602.8	4461.2	4427.9	4430.0	4432.1
6911.4	15°	6767.8	6590.9	6057.9	5337.6	4665.2	4375.9	4350.9	4405.0	4461.2	4488.3
7265.3	17.5°	7078.0	6828.2	6068.3	5046.2	4348.8	4230.1	4309.2	4425.8	4511.2	4548.6
7660.9	20°	7411.1	7069.7	5993.4	4634.0	4088.6	4111.5	4253.0	4402.9	4496.6	4544.5
8112.6	22.5°	7792.0	7327.8	5814.4	4201.0	3876.2	3982.4	4148.9	4294.7	4392.5	4440.4
8643.5	25°	8227.1	7617.2	5533.3	3836.7	3693.0	3836.7	4003.2	4124.0	4203.1	4246.8
9236.8	27.5°	8710.1	7919.0	5158.6	3547.3	3532.7	3686.8	3824.2	3917.9	3959.5	3992.8
9867.5	30°	9195.1	8193.8	4704.8	3328.7	3393.3	3539.0	3636.8	3678.5	3691.0	3697.2
10571.2	32.5°	9719.7	8431.1	4228.1	3147.6	3260.0	3395.3	3453.6	3472.4	3414.1	3374.5
11424.7	35°	10354.7	8685.1	3761.7	3004.0	3128.9	3245.5	3264.2	3247.5	3178.8	3097.7
12494.7	37.5°	11139.5	9001.5	3389.1	2902.0	3006.1	3083.1	3060.2	3056.0	3062.3	2966.5
13781.2	40°	12101.3	9413.7	3116.4	2822.9	2906.1	2922.8	2858.3	2893.6	2924.9	2779.1
15192.7	42.5°	13169.2	9911.3	2943.6	2768.7	2822.9	2783.3	2683.4	2722.9	2718.8	2527.3
16610.4	45°	14258.0	10452.5	2883.2	2729.2	2745.8	2666.7	2556.4	2566.8	2479.4	2306.6
17969.7	47.5°	15340.5	11033.3	2920.7	2695.9	2650.1	2560.6	2475.2	2429.4	2300.3	2171.3
19272.9	50°	16402.2	11643.3	3058.1	2629.3	2518.9	2466.9	2404.4	2323.2	2185.8	2075.5
20505.3	52.5°	17386.9	12257.4	3212.2	2518.9	2354.5	2385.7	2346.1	2252.5	2117.1	2004.7
21671.1	55°	18319.5	12871.5	3272.5	2367.0	2200.4	2314.9	2292.0	2119.2	1956.9	1865.3
22891.0	57.5°	19335.4	13610.5	3205.9	2173.4	2075.5	2233.7	2146.3	1954.8	1861.1	1792.4
24479.4	60°	20742.7	14770.1	3062.3	1934.0	1956.9	2113.0	1963.1	1884.0	1782.0	1705.0
26860.9	62.5°	23080.5	16933.0	2831.2	1696.6	1817.4	1934.0	1875.7	1796.6	1692.5	1617.5
30932.9	65°	26536.2	19939.1	2396.1	1511.4	1661.2	1759.1	1782.0	1702.9	1594.6	1515.5
34501.0	67.5°	29450.7	21825.2	1813.2	1357.3	1500.9	1617.5	1682.1	1605.0	1490.5	1413.5
35335.8	70°	29290.4	20455.4	1384.4	1205.3	1359.4	1478.0	1561.3	1500.9	1378.1	1305.3
32096.6	72.5°	26015.7	17112.1	1120.0	1051.3	1215.7	1332.3	1432.3	1386.5	1261.5	1190.8
23513.5	75°	19112.6	12147.1	895.2	895.2	1036.7	1180.4	1290.7	1261.5	1147.0	1097.1
9871.7	77.5°	8056.4	5096.1	701.6	743.2	861.8	1013.8	1151.2	1161.6	1061.7	1124.2
2610.5	80°	2142.1	1405.2	535.0	585.0	676.6	836.9	1001.3	997.2	888.9	830.6
970.1	82.5°	816.0	553.7	381.0	412.2	489.2	641.2	793.2	818.1	709.9	614.1
381.0	85°	314.3	237.3	235.2	247.7	285.2	424.7	599.5	620.4	535.0	453.8
106.2	87.5°	81.2	70.8	87.4	83.3	131.2	226.9	343.5	356.0	326.8	189.4
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>
5751.9
5487.5
5085.7
4719.3
4498.7
4436.2
4486.2
4557.0
4557.0
4452.9
4259.3
4005.3
3711.8
3387.0
3101.8
2972.8
2783.3
2525.2
2312.8
2171.3
2067.2
2006.8
1856.9
1786.1
1700.8
1617.5
1519.7
1415.6
<i>1311.5</i>
1190.8
1082.5
1020.1
772.3
614.1
468.4
270.6
0.0

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