

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: P957123

Luminaire Tested: **GALN-SB9C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957123
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-SB9C-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57972 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

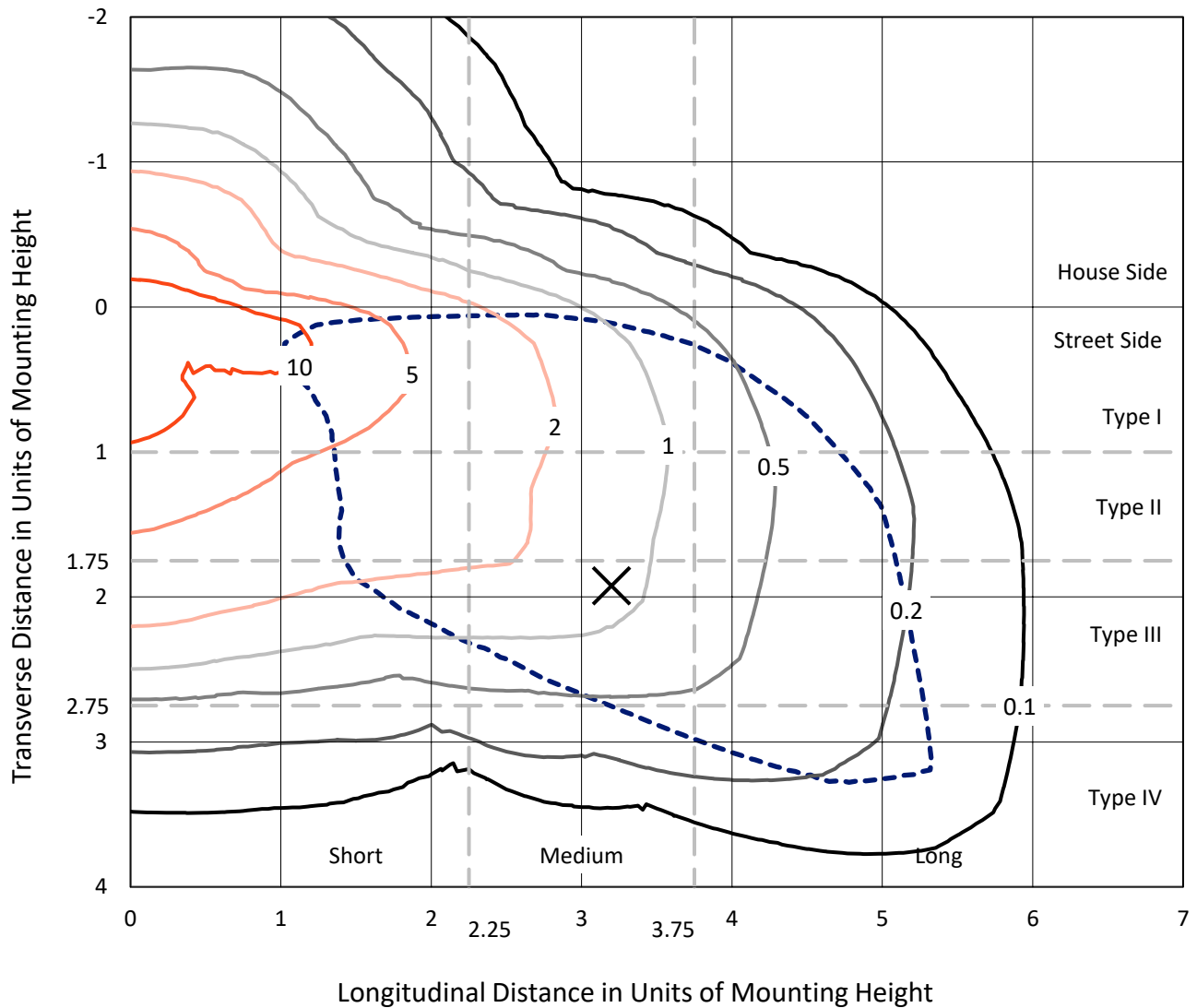
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

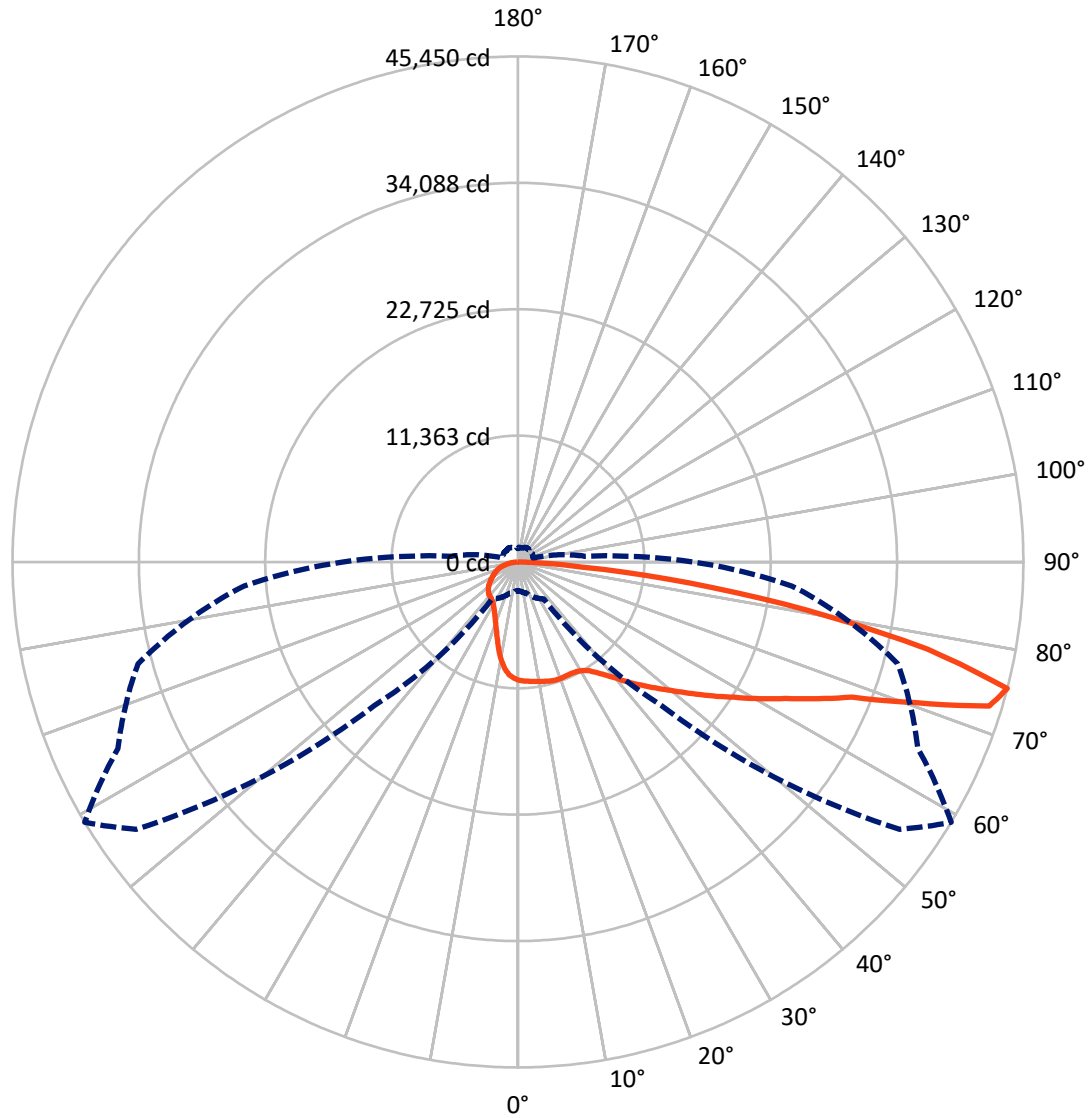
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	10873.0	0.0	10873.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47099.0	0.0	47099.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	57972.0	0.0	57972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.1	1.6
10°-20°	2438.7	4.2
20°-30°	3704.3	6.4
30°-40°	5506.3	9.5
40°-50°	8188.8	14.1
50°-60°	11115.4	19.2
60°-70°	13570.0	23.4
70°-80°	10649.6	18.4
80°-90°	1844.8	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°	57972.0	100.0
0°-180°	57972.0	100.0

Coefficient of Utilization

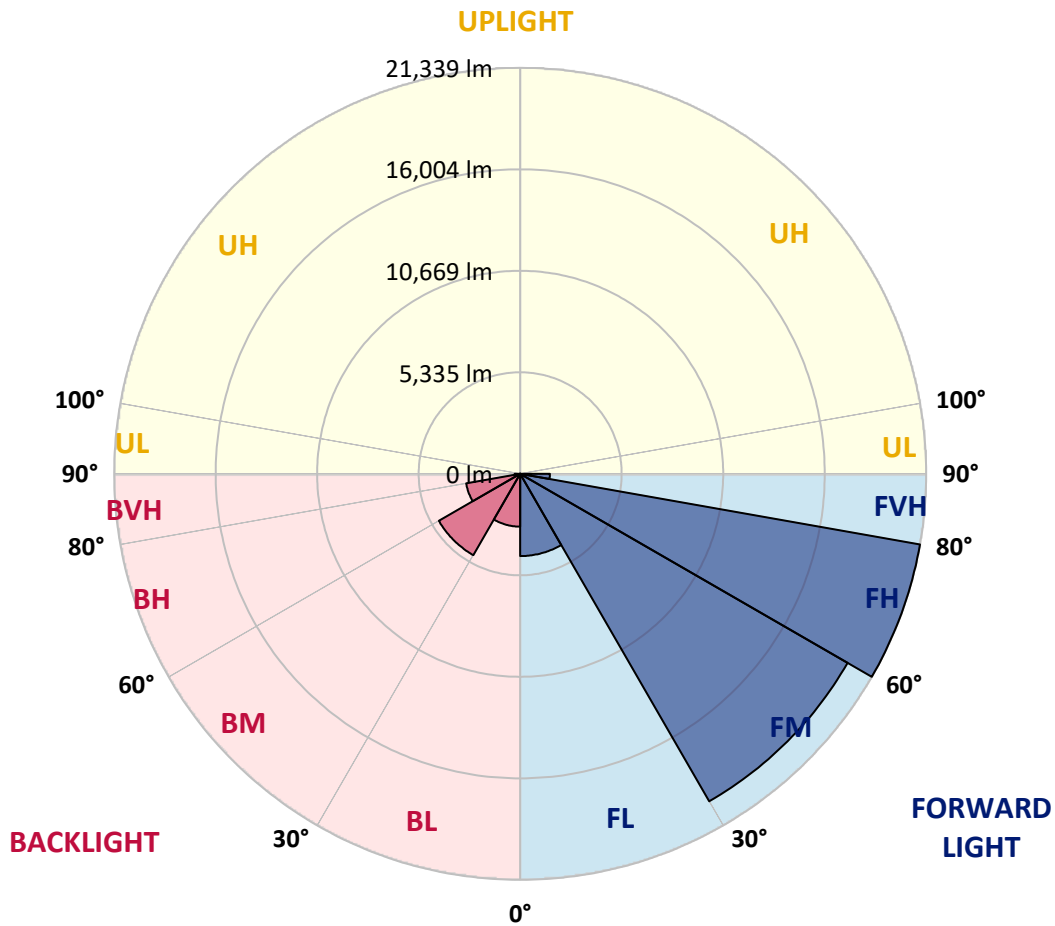


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4322.4	7.5			
FM (30°-60°)	19875.2	34.3			
FH (60°-80°)	21338.9	36.8			G5
FVH (80°-90°)	1562.4	2.7			G5
BL (0°-30°)	2774.7	4.8	B4/5000		
BM (30°-60°)	4935.3	8.5	B3/5000		
BH (60°-80°)	2880.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	282.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6
2.5°	10731.1	10693.6	10731.1	10715.5	10709.2	10696.8	10699.9	10721.7	10709.2	10724.8
5°	10659.3	10637.5	10674.9	10665.6	10706.1	10712.4	10752.9	10777.8	10793.4	10796.6
7.5°	10540.8	10519.0	10572.0	10615.7	10703.0	10728.0	10812.2	10852.7	10874.5	10911.9
10°	10107.4	10098.0	10229.0	10394.3	10600.1	10728.0	10855.8	10924.4	10958.7	11058.5
12.5°	9340.2	9352.7	9524.2	9842.3	10253.9	10665.6	10905.7	11005.5	11058.5	11183.3
15°	8607.3	8604.2	8791.3	9131.2	9708.2	10391.1	10930.7	11102.2	11192.6	11376.6
17.5°	8183.2	8170.7	8301.7	8560.5	9096.9	9970.1	10868.3	11155.2	11348.6	11579.3
20°	8105.2	8080.3	8148.9	8276.7	8657.2	9508.6	10706.1	11155.2	11473.3	11772.7
22.5°	8389.0	8348.5	8320.4	8304.8	8473.2	9128.1	10522.1	11117.8	11657.3	12050.2
25°	8959.7	8897.3	8753.9	8613.5	8563.7	8956.6	10360.0	11108.4	11931.7	12424.5
27.5°	9882.8	9804.8	9514.8	9178.0	8875.5	9043.9	10288.2	11164.6	12234.2	12820.5
30°	11027.3	10943.1	10578.3	10060.6	9517.9	9368.2	10378.7	11329.8	12620.9	13347.6
32.5°	12053.4	11959.8	11647.9	11120.9	10388.0	9929.6	10665.6	11644.8	13229.1	14080.4
35°	12964.0	12854.8	12574.2	12087.7	11454.6	10718.6	11183.3	12203.0	14092.9	15271.7
37.5°	13855.9	13728.0	13422.4	12907.8	12465.0	11769.6	11897.4	12920.3	15240.6	16718.8
40°	14853.8	14669.9	14298.7	13790.4	13360.0	13001.4	12836.1	13799.8	16406.9	18334.2
42.5°	15820.6	15646.0	15203.1	14769.6	14230.1	14127.2	13924.5	14828.9	17682.4	20108.7
45°	16862.2	16653.3	16116.9	15568.0	15228.1	14875.7	14978.6	15858.0	18933.0	21917.5
47.5°	17838.3	17604.4	16971.4	16360.1	16173.0	15505.6	15945.4	16990.1	20233.4	23751.2
50°	18365.4	18134.6	17607.6	17055.6	16909.0	16282.2	16993.2	18234.4	21596.2	25578.7
52.5°	18805.1	18555.6	17866.4	17560.8	17517.1	17127.3	18284.3	19656.5	22959.1	27194.1
55°	19272.9	18995.3	18115.9	17841.5	18041.0	18075.4	19815.5	21268.8	24399.9	28769.0
57.5°	19812.4	19460.0	18356.0	18078.5	18552.5	19185.6	21574.4	22940.4	25815.7	30228.5
60°	20320.7	19965.2	18817.6	18455.8	19104.5	20473.5	23592.1	24964.3	27418.6	31529.0
62.5°	20420.5	20127.4	19185.6	19182.5	19852.9	21976.7	25981.0	27007.0	28818.9	32813.8
65°	18692.8	18508.8	17950.6	19154.4	20925.7	24141.0	28641.1	29620.4	30599.6	33936.5
67.5°	14227.0	14252.0	14211.4	16534.8	20058.8	27250.2	32492.6	32417.8	32798.2	35196.4
70°	6505.4	6652.0	7606.2	11414.0	16070.1	27608.9	38860.8	37890.9	35558.2	36827.4
72.5°	3514.7	3626.9	4016.7	5529.3	9661.4	24546.4	43619.7	44308.9	39228.8	37925.2
75°	2579.1	2641.4	2912.8	3514.7	4057.3	18243.8	41913.9	45450.3	39687.2	35364.8
77.5°	1930.4	1958.5	2179.9	2784.9	2077.0	9617.7	33490.5	37641.4	33973.9	29055.9
80°	1400.2	1431.4	1596.7	2089.5	1456.4	3517.8	22996.5	26420.7	23267.8	18521.3
82.5°	966.8	979.2	1051.0	1422.1	1016.7	1365.9	13048.2	15493.2	12988.9	6499.1
85°	583.2	598.8	630.0	829.5	576.9	648.7	5632.2	5825.5	3882.6	1553.1
87.5°	240.1	255.7	280.7	349.3	227.7	180.9	929.3	1166.4	726.6	455.3
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°
10640.6	0°	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6	10640.6
10671.8	2.5°	10656.2	10634.4	10575.1	10494.1	10419.2	10325.7	10285.1	10250.8	10219.6	10160.4
10756.0	5°	10721.7	10662.5	10503.4	10297.6	10063.7	9808.0	9558.5	9387.0	9240.4	9131.2
10852.7	7.5°	10821.5	10709.2	10419.2	9998.2	9461.8	8912.9	8417.1	8064.7	7799.6	7702.9
10989.9	10°	10924.4	10790.3	10285.1	9542.9	8616.7	7771.5	7113.5	6751.7	6539.7	6471.1
11152.1	12.5°	11046.0	10849.6	10076.2	8909.8	7671.7	6745.5	6171.7	5959.6	5850.5	5813.1
11351.7	15°	11223.8	10899.5	9761.2	8117.7	6770.5	5997.0	5625.9	5479.4	5423.2	5420.1
11557.5	17.5°	11357.9	10908.8	9271.6	7269.4	6078.1	5544.9	5239.2	5183.1	5220.5	5276.7
11760.2	20°	11507.6	10824.6	8629.1	6496.0	5591.6	5148.8	5020.9	5058.4	5148.8	5229.9
12028.4	22.5°	11613.6	10671.8	7852.6	5894.1	5170.6	4921.1	4914.9	4992.9	5042.8	5083.3
12343.4	25°	11707.2	10413.0	7029.3	5388.9	4824.5	4783.9	4852.5	4827.6	4793.3	4827.6
12658.4	27.5°	11775.8	10004.4	6293.3	4946.1	4581.2	4690.4	4649.8	4593.7	4590.6	4609.3
13029.5	30°	11754.0	9458.7	5688.3	4525.1	4409.7	4515.7	4419.0	4409.7	4400.3	4409.7
13587.7	32.5°	11754.0	8838.1	5223.6	4235.0	4300.5	4260.0	4250.6	4228.8	4191.4	4188.3
14345.5	35°	11819.5	8217.5	4824.5	4079.1	4210.1	4113.4	4119.7	4066.6	3988.7	3951.3
15349.7	37.5°	11953.6	7718.5	4428.4	4004.3	4051.0	4047.9	4023.0	3932.5	3795.3	3676.8
16603.4	40°	12277.9	7571.9	4157.1	3970.0	3976.2	4013.6	3948.1	3773.5	3461.6	3268.3
17875.8	42.5°	12786.2	7818.3	4097.8	3885.8	3926.3	3963.7	3835.9	3430.4	3209.0	3093.6
19210.5	45°	13431.8	8248.7	4225.7	3764.1	3807.8	3873.3	3492.8	3299.5	3199.7	3202.8
20532.8	47.5°	14248.8	8700.9	4462.7	3658.1	3636.3	3673.7	3265.2	3146.7	3009.4	3043.7
21802.1	50°	15193.8	9159.3	4687.2	3514.7	3446.0	3324.4	3118.6	3006.3	2831.7	2750.6
23027.7	52.5°	16216.7	9602.1	4777.7	3340.0	3240.2	3099.9	3018.8	2881.6	2669.5	2535.4
24184.7	55°	17186.6	10004.4	4677.9	3131.1	3034.4	2925.2	2912.8	2828.6	2600.9	2413.8
25213.8	57.5°	18103.4	10341.2	4428.4	2919.0	2825.4	2760.0	2844.2	2803.6	2516.7	2276.6
26186.8	60°	18879.9	10572.0	4066.6	2703.8	2638.3	2604.0	2731.9	2719.4	2398.2	2130.0
27060.0	62.5°	19497.4	10662.5	3667.5	2498.0	2482.4	2420.0	2576.0	2576.0	2248.5	1986.5
27827.2	65°	19980.8	10575.1	3262.0	2295.3	2326.5	2232.9	2385.7	2367.0	2089.5	1858.7
28709.7	67.5°	20408.1	10288.2	2813.0	2095.7	2167.4	2048.9	2186.1	2142.5	1914.8	1730.8
29473.8	70°	20598.3	9620.9	2301.5	1896.1	1983.4	1868.0	1986.5	1905.5	1718.3	1593.6
28634.9	72.5°	19070.2	7996.1	1811.9	1687.2	1762.0	1668.4	1771.4	1677.8	1506.3	1450.1
24727.3	75°	15777.0	6000.2	1394.0	1459.5	1515.6	1443.9	1512.5	1443.9	1288.0	1328.5
18265.6	77.5°	11457.7	4051.0	1066.6	1219.4	1244.3	1206.9	1266.1	1188.2	1047.8	1038.5
9103.2	80°	5697.7	2373.2	835.8	963.6	954.3	929.3	997.9	960.5	842.0	891.9
2457.4	82.5°	1649.7	1016.7	608.1	676.7	658.0	664.3	714.2	732.9	1097.7	1088.4
764.1	85°	517.7	399.2	364.9	377.3	358.6	368.0	421.0	835.8	773.4	452.2
237.0	87.5°	134.1	137.2	90.4	96.7	99.8	118.5	134.1	508.3	243.3	159.0
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>
10640.6
10132.3
9040.8
7534.5
6365.0
5822.4
5432.6
5298.5
5257.9
5105.1
4849.4
4640.5
4444.0
4228.8
3988.7
3717.4
3293.2
3093.6
3218.4
3131.1
2772.4
2532.3
2413.8
2264.1
2120.6
1977.2
1846.2
1718.3
1568.7
1403.4
<i>1213.1</i>
991.7
882.6
1113.3
489.6
168.4
0.0

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