

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: P941845

Luminaire Tested: **GALN-SB5C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941845
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-SB5C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 32595 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

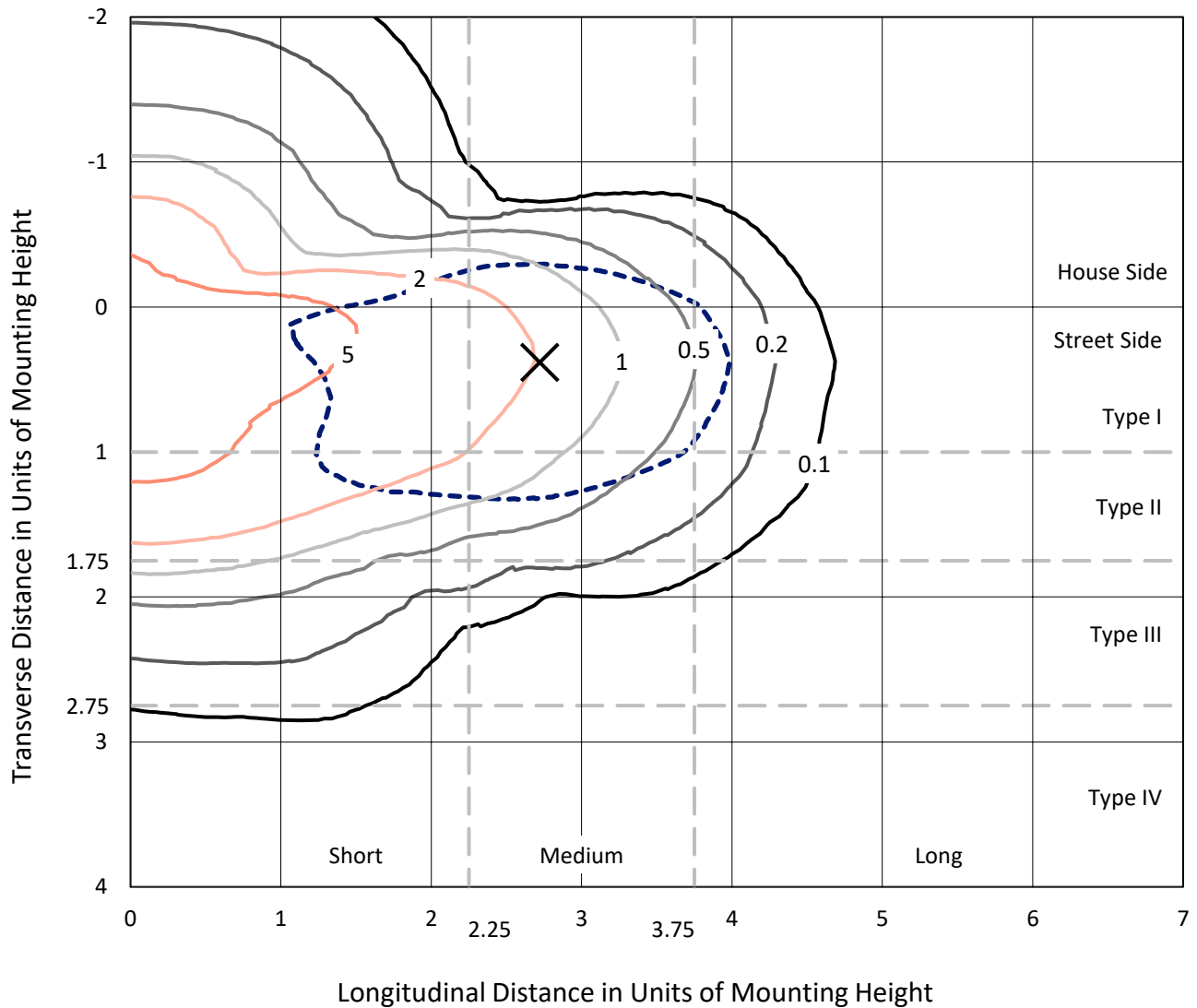
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941845
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Iso-Footcandle Lines of Horizontal Illumination

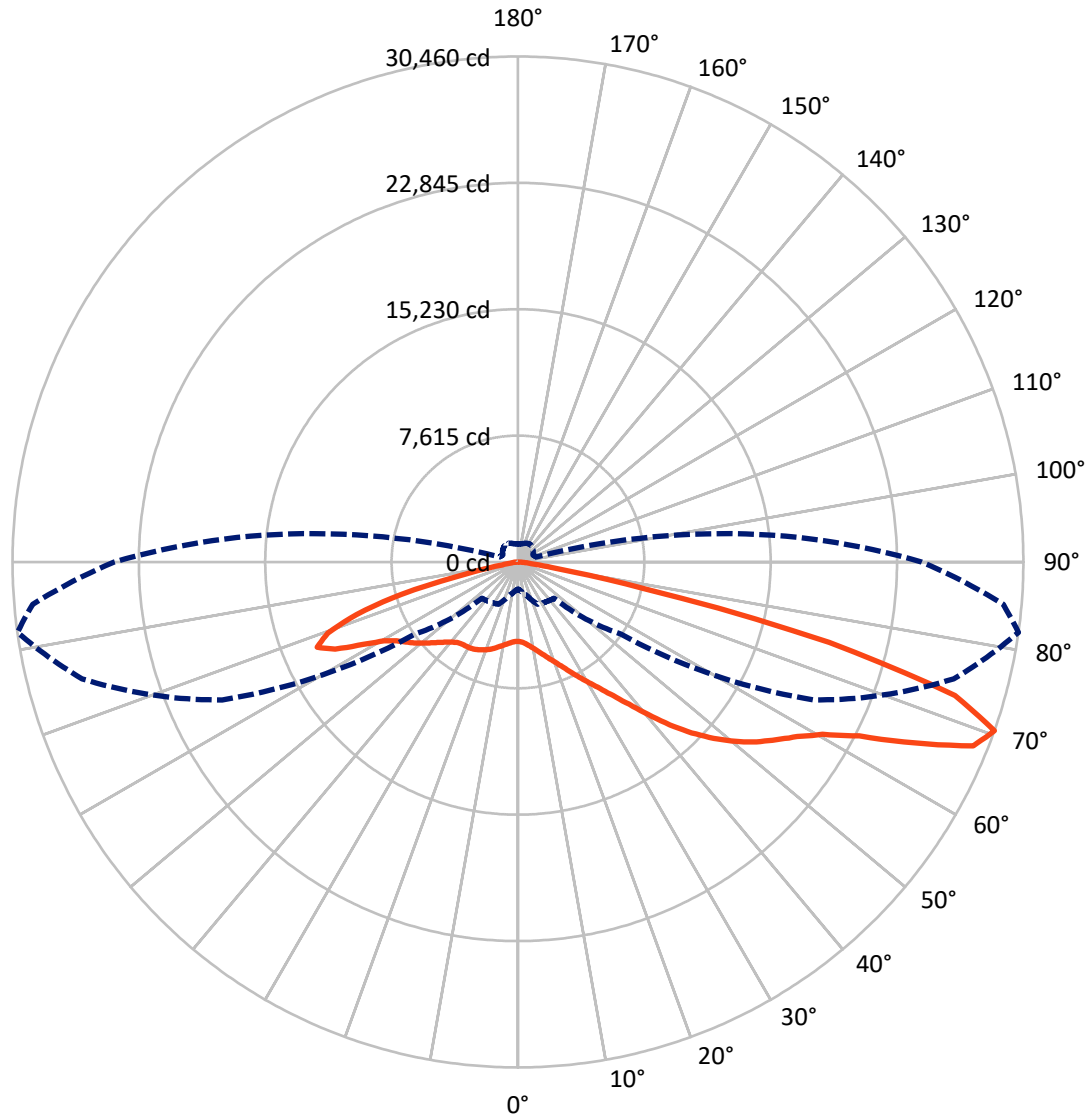
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P941845
CATALOG NUMBER: GALN-SB5C-827-U-T2

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	8035.5	0.0	8035.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24559.5	0.0	24559.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	32595.0	0.0	32595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	1.4
10°-20°	1296.3	4.0
20°-30°	2168.7	6.7
30°-40°	3388.0	10.4
40°-50°	5395.8	16.6
50°-60°	7508.9	23.0
60°-70°	7854.6	24.1
70°-80°	4105.2	12.6
80°-90°	426.3	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°	32595.0	100.0
0°-180°	32595.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941845

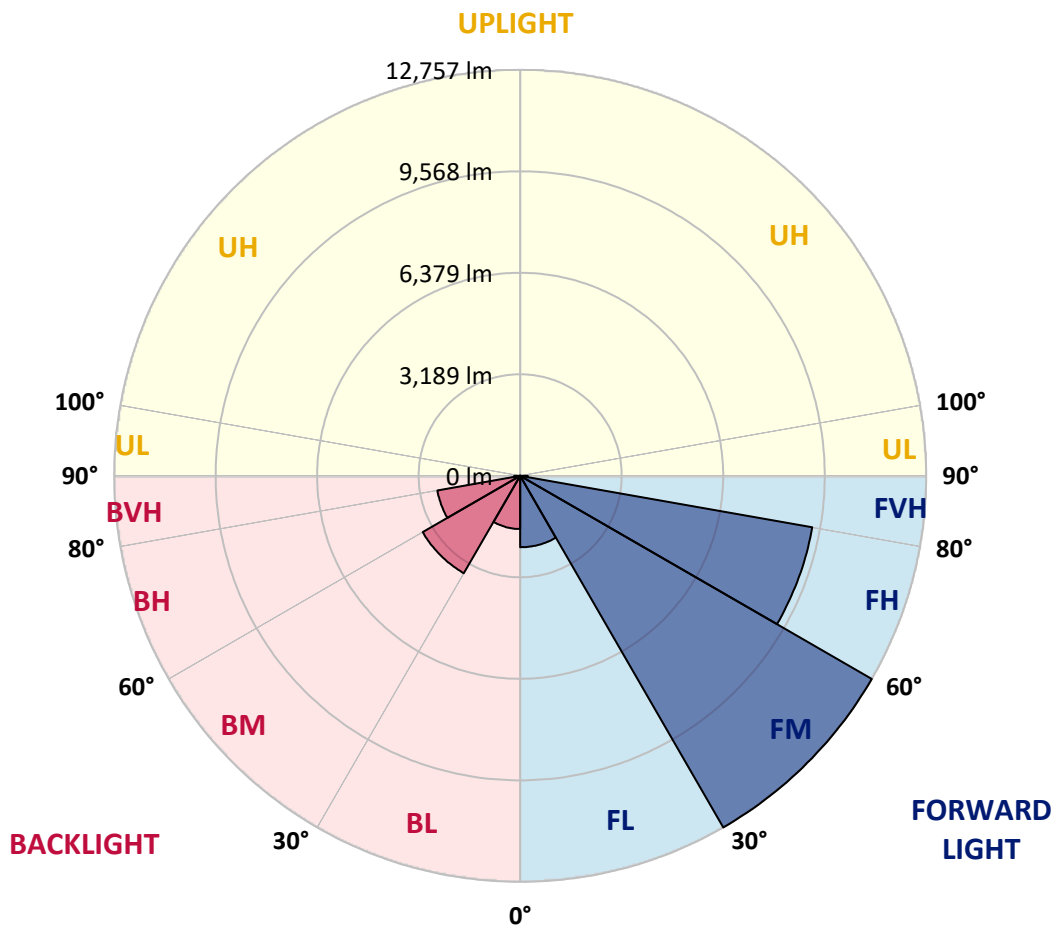
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2244.5	6.9			
FM (30°-60°)	12757.4	39.1			
FH (60°-80°)	9319.0	28.6			G4/12000
FVH (80°-90°)	238.6	0.7			G3/500
BL (0°-30°)	1671.7	5.1	B3/2500		
BM (30°-60°)	3535.3	10.8	B3/5000		
BH (60°-80°)	2640.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	187.6	0.6			G2/225
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



REPORT NUMBER: P941845
 CATALOG NUMBER: GALN-SB5C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
2.5°	4893.0	4920.7	4912.0	4903.4	4903.4	4891.3	4889.5	4872.2	4858.4	4835.9
5°	4955.3	4984.7	4981.2	4988.1	5010.6	5015.8	5021.0	5010.6	4982.9	4955.3
7.5°	4899.9	4932.8	4943.1	4984.7	5053.8	5116.1	5162.8	5181.8	5155.9	5116.1
10°	4713.1	4749.4	4785.8	4884.3	5007.1	5154.2	5278.7	5353.1	5347.9	5309.8
12.5°	4334.3	4372.4	4450.2	4642.2	4867.0	5126.5	5358.2	5513.9	5567.5	5539.9
15°	4031.7	4064.5	4123.3	4320.5	4612.8	5007.1	5387.6	5690.3	5827.0	5811.4
17.5°	4023.0	4036.8	4073.2	4166.6	4391.4	4820.3	5356.5	5863.3	6124.4	6122.7
20°	4175.2	4180.4	4201.2	4220.2	4348.2	4678.5	5277.0	6006.8	6458.3	6458.3
22.5°	4386.2	4382.8	4403.5	4386.2	4448.5	4666.4	5226.8	6133.1	6830.1	6857.8
25°	4702.7	4685.4	4680.2	4640.5	4652.6	4778.8	5282.1	6276.7	7271.2	7328.2
27.5°	5124.8	5097.1	5078.1	4986.4	4955.3	5010.6	5451.6	6449.6	7762.4	7860.9
30°	5674.8	5624.6	5596.9	5437.8	5325.4	5334.0	5707.6	6679.6	8276.0	8435.2
32.5°	6425.4	6347.6	6273.2	6012.0	5806.2	5738.8	6038.0	6997.9	8833.0	9087.2
35°	7266.0	7203.7	7124.1	6721.2	6404.6	6249.0	6484.2	7442.4	9485.0	9888.0
37.5°	8075.4	8021.8	8059.9	7516.8	7108.6	6882.0	7068.8	8039.1	10289.3	10884.3
40°	8912.5	8871.0	8876.2	8357.3	7881.7	7627.5	7777.9	8788.0	11211.1	12069.0
42.5°	9822.3	9791.2	9687.4	9227.3	8692.9	8455.9	8594.3	9652.8	12200.5	13418.1
45°	10841.0	10822.0	10725.1	10197.6	9585.3	9319.0	9505.8	10607.5	13195.0	14687.6
47.5°	11721.4	11736.9	11724.8	11280.3	10645.6	10254.7	10477.8	11603.8	14120.3	15881.0
50°	12145.1	12226.4	12345.8	12207.4	11813.0	11415.2	11458.5	12565.4	15002.4	17000.1
52.5°	11923.7	12077.7	12402.8	12624.2	12776.4	12693.4	12577.5	13520.1	15832.6	18010.1
55°	11098.7	11314.9	11854.6	12389.0	13165.6	13769.2	13921.4	14578.6	16642.0	18899.1
57.5°	9595.7	9946.8	10431.1	11512.1	12819.7	14289.8	15488.4	16047.1	17499.9	19848.7
60°	7018.6	7489.1	8091.0	9699.5	11609.0	14011.3	16821.9	18302.4	18719.3	21078.4
62.5°	4491.7	4782.3	5335.8	6850.9	9045.7	12584.4	17230.1	21121.7	20786.1	23095.1
65°	3075.2	3262.0	3768.8	4619.7	5847.7	9367.4	16137.0	23235.2	24068.9	26291.4
67.5°	2234.6	2376.4	2808.8	3554.3	3810.3	5543.3	12522.2	23138.3	27259.9	29584.5
70°	1629.3	1729.6	2092.8	2808.8	2931.6	3083.8	7585.9	19668.8	27190.8	30459.7
72.5°	1207.2	1276.4	1520.3	2179.3	2373.0	2082.4	3754.9	14295.0	23364.9	27550.5
75°	873.4	925.3	1105.2	1667.3	1899.1	1586.0	1873.1	8353.9	16297.8	19380.0
77.5°	667.6	707.4	825.0	1221.1	1520.3	1190.0	1162.3	3843.1	7727.8	7765.8
80°	536.2	562.1	626.1	859.6	1165.7	890.7	757.6	1551.4	2442.2	2066.9
82.5°	394.3	437.6	529.3	603.6	833.7	614.0	461.8	783.5	928.8	799.1
85°	224.8	254.2	320.0	432.4	532.7	375.3	264.6	347.6	432.4	354.6
87.5°	79.6	103.8	112.4	169.5	231.8	155.7	102.0	100.3	141.8	105.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941845
 CATALOG NUMBER: GALN-SB5C-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4778.8	0°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
4830.7	2.5°	4813.4	4804.8	4770.2	4723.5	4675.1	4628.4	4612.8	4579.9	4557.4	4545.3
4943.1	5°	4910.3	4882.6	4801.3	4697.5	4588.6	4471.0	4387.9	4311.8	4256.5	4204.6
5097.1	7.5°	5048.6	5000.2	4860.1	4678.5	4484.8	4289.4	4144.1	4033.4	3959.0	3910.6
5277.0	10°	5209.5	5135.1	4920.7	4649.1	4349.9	4069.7	3898.5	3803.4	3756.7	3730.7
5482.8	12.5°	5394.6	5289.1	4982.9	4581.7	4144.1	3824.1	3706.5	3678.8	3680.6	3682.3
5742.2	15°	5622.9	5475.9	5033.1	4434.6	3876.0	3635.6	3614.8	3659.8	3706.5	3729.0
6036.2	17.5°	5880.6	5673.0	5041.7	4192.5	3613.1	3514.5	3580.2	3677.1	3748.0	3779.1
6364.9	20°	6157.3	5873.7	4979.5	3850.0	3396.9	3415.9	3533.5	3658.1	3735.9	3775.7
6740.2	22.5°	6473.8	6088.1	4830.7	3490.3	3220.5	3308.7	3447.1	3568.1	3649.4	3689.2
7181.2	25°	6835.3	6328.5	4597.2	3187.6	3068.3	3187.6	3326.0	3426.3	3492.0	3528.3
7674.2	27.5°	7236.6	6579.3	4285.9	2947.2	2935.1	3063.1	3177.2	3255.1	3289.7	3317.3
8198.2	30°	7639.6	6807.6	3908.9	2765.6	2819.2	2940.3	3021.6	3056.2	3066.5	3071.7
8782.8	32.5°	8075.4	7004.8	3512.8	2615.1	2708.5	2820.9	2869.4	2884.9	2836.5	2803.7
9491.9	35°	8602.9	7215.8	3125.4	2495.8	2599.6	2696.4	2712.0	2698.1	2641.1	2573.6
10381.0	37.5°	9255.0	7478.7	2815.8	2411.0	2497.5	2561.5	2542.5	2539.0	2544.2	2464.7
11449.8	40°	10054.1	7821.2	2589.2	2345.3	2414.5	2428.3	2374.7	2404.1	2430.1	2309.0
12622.5	42.5°	10941.3	8234.5	2445.6	2300.3	2345.3	2312.5	2229.4	2262.3	2258.8	2099.7
13800.3	45°	11845.9	8684.2	2395.5	2267.5	2281.3	2215.6	2123.9	2132.6	2059.9	1916.4
14929.8	47.5°	12745.3	9166.8	2426.6	2239.8	2201.8	2127.4	2056.5	2018.4	1911.2	1804.0
16012.5	50°	13627.4	9673.6	2540.8	2184.5	2092.8	2049.6	1997.7	1930.2	1816.1	1724.4
17036.4	52.5°	14445.5	10183.8	2668.7	2092.8	1956.2	1982.1	1949.2	1871.4	1759.0	1665.6
18004.9	55°	15220.3	10694.0	2718.9	1966.5	1828.2	1923.3	1904.3	1760.7	1625.8	1549.7
19018.5	57.5°	16064.4	11308.0	2663.6	1805.7	1724.4	1855.8	1783.2	1624.1	1546.2	1489.2
20338.2	60°	17233.6	12271.4	2544.2	1606.8	1625.8	1755.5	1631.0	1565.3	1480.5	1416.5
22316.8	62.5°	19175.9	14068.4	2352.2	1409.6	1509.9	1606.8	1558.4	1492.6	1406.2	1343.9
25699.9	65°	22047.0	16565.9	1990.7	1255.7	1380.2	1461.5	1480.5	1414.8	1324.9	1259.1
28664.4	67.5°	24468.4	18132.9	1506.5	1127.7	1247.0	1343.9	1397.5	1333.5	1238.4	1174.4
29357.9	70°	24335.2	16994.9	1150.2	1001.4	1129.4	1228.0	1297.2	1247.0	1145.0	1084.4
26666.7	72.5°	21614.6	14217.2	930.5	873.4	1010.1	1106.9	1190.0	1151.9	1048.1	989.3
19535.6	75°	15879.3	10092.1	743.7	743.7	861.3	980.7	1072.3	1048.1	953.0	911.5
8201.7	77.5°	6693.5	4234.0	582.9	617.5	716.0	842.3	956.5	965.1	882.1	934.0
2168.9	80°	1779.7	1167.5	444.5	486.0	562.1	695.3	831.9	828.5	738.5	690.1
806.0	82.5°	678.0	460.1	316.5	342.5	406.5	532.7	659.0	679.7	589.8	510.2
316.5	85°	261.2	197.2	195.4	205.8	237.0	352.8	498.1	515.4	444.5	377.0
88.2	87.5°	67.5	58.8	72.6	69.2	109.0	188.5	285.4	295.8	271.5	157.4
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>
4778.8
4559.2
4225.4
3921.0
3737.6
3685.7
3727.2
3786.1
3786.1
3699.6
3538.7
3327.7
3083.8
2814.0
2577.1
2469.8
2312.5
2098.0
1921.6
1804.0
1717.5
1667.3
1542.8
1484.0
1413.1
1343.9
1262.6
1176.1
1089.6
989.3
899.4
847.5
641.7
510.2
389.2
224.8
0.0

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