

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: P943515

Luminaire Tested: **GALN-SB8A-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943515
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-SB8A-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38024 lumens
Efficiency: N/A
Efficacy: 167.4 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

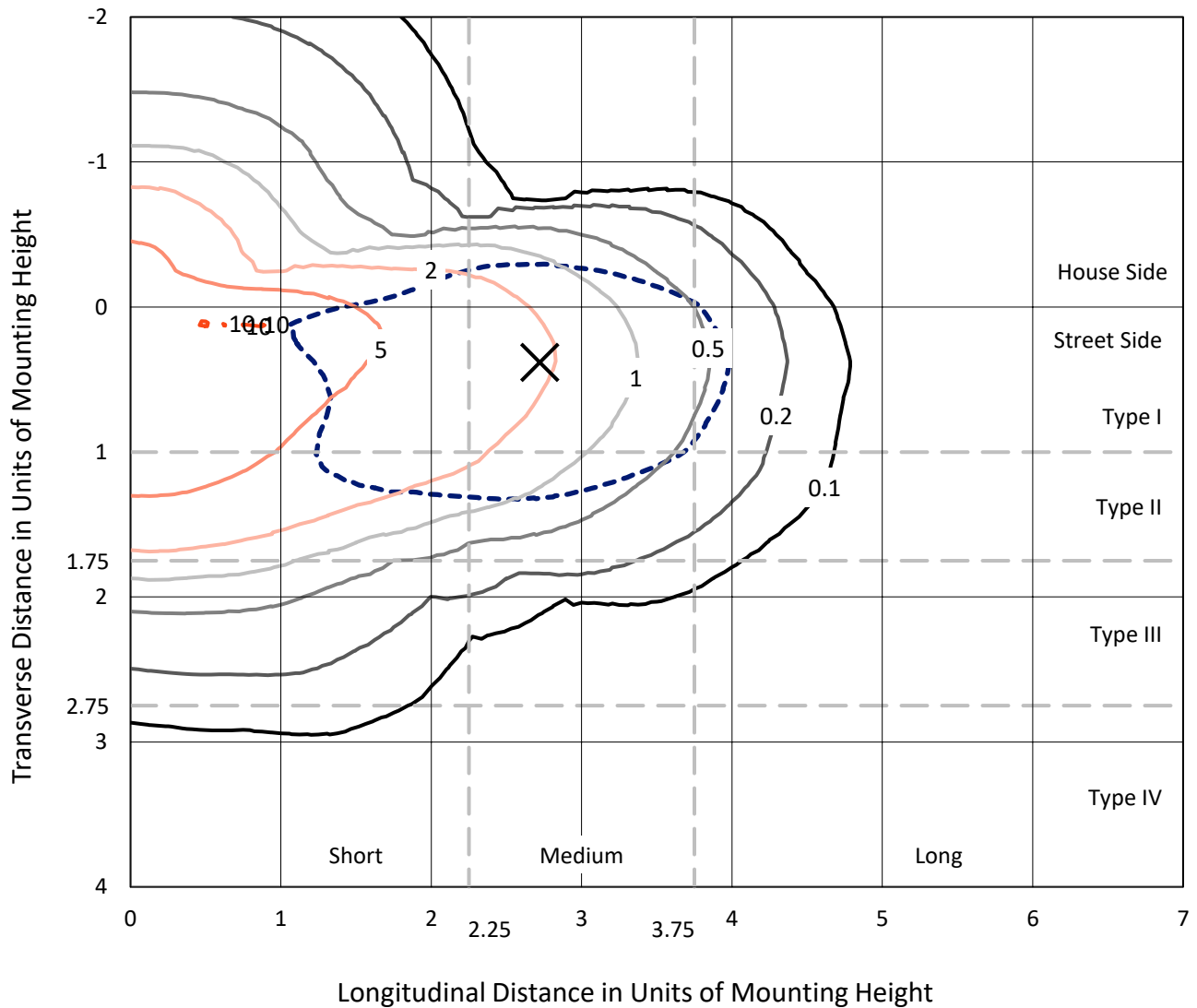
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

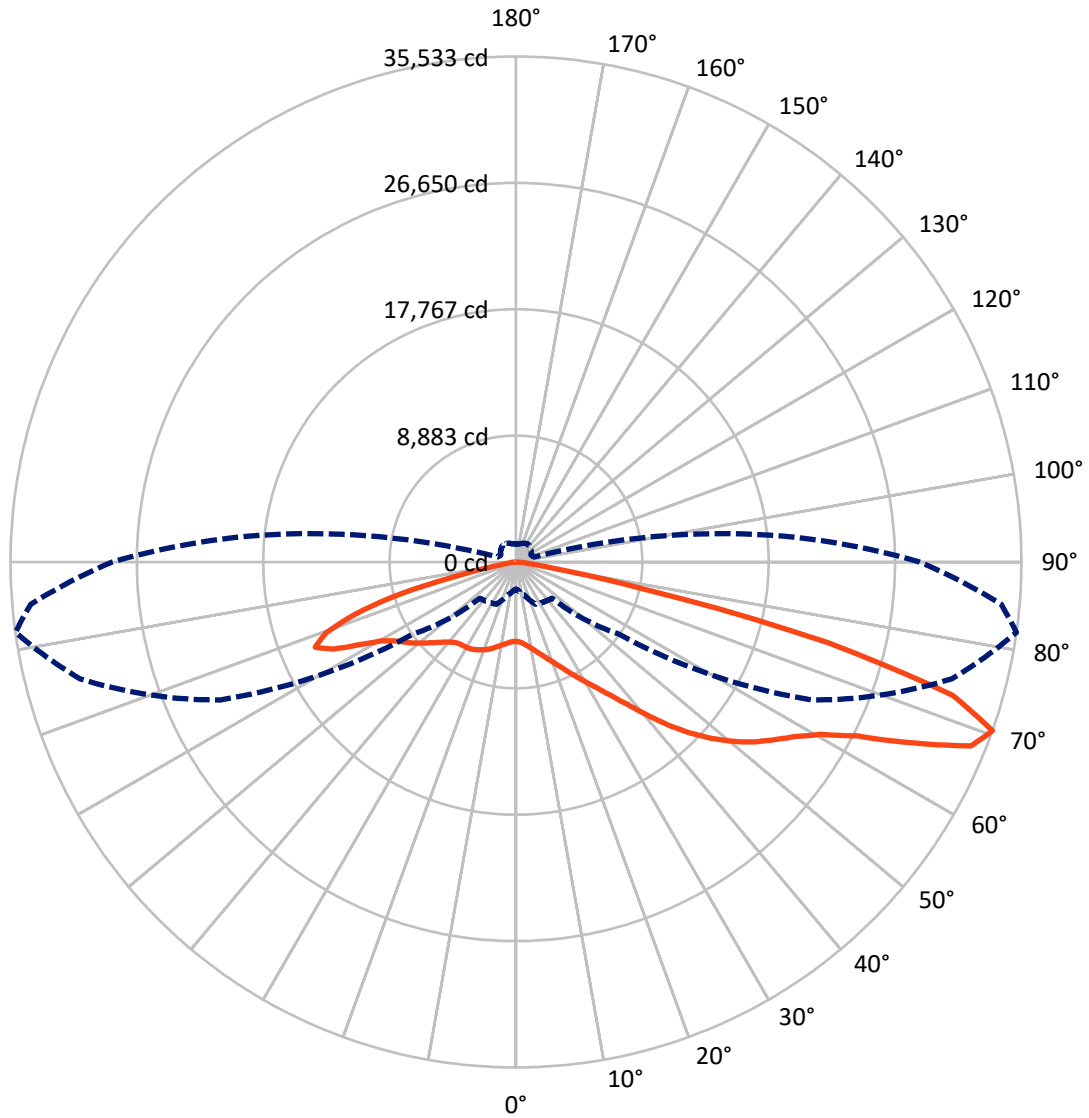
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	9373.8	0.0	9373.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28650.2	0.0	28650.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	38024.0	0.0	38024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.4	1.4
10°-20°	1512.3	4.0
20°-30°	2529.9	6.7
30°-40°	3952.3	10.4
40°-50°	6294.5	16.6
50°-60°	8759.5	23.0
60°-70°	9162.9	24.1
70°-80°	4789.0	12.6
80°-90°	497.3	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°	38024.0	100.0
0°-180°	38024.0	100.0

Coefficient of Utilization



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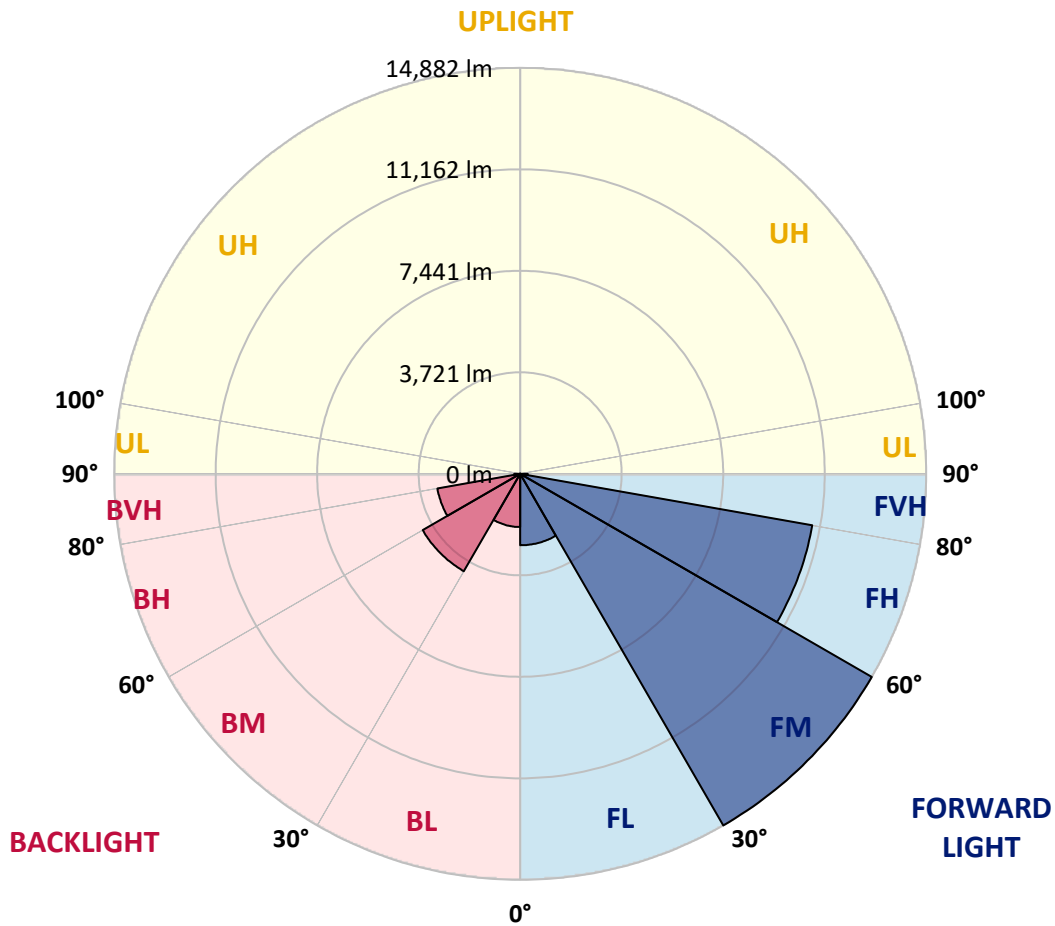
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2618.4	6.9			
FM (30°-60°)	14882.2	39.1			
FH (60°-80°)	10871.2	28.6			G4/12000
FVH (80°-90°)	278.4	0.7			G3/500
BL (0°-30°)	1950.1	5.1	B3/2500		
BM (30°-60°)	4124.1	10.8	B3/5000		
BH (60°-80°)	3080.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	218.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5708.0	5740.2	5730.2	5720.1	5720.1	5705.9	5703.9	5683.7	5667.6	5641.4
5°	5780.6	5814.9	5810.9	5818.9	5845.2	5851.2	5857.3	5845.2	5812.9	5780.6
7.5°	5716.0	5754.4	5766.5	5814.9	5895.6	5968.2	6022.7	6044.9	6014.6	5968.2
10°	5498.1	5540.5	5582.9	5697.9	5841.1	6012.6	6157.9	6244.7	6238.6	6194.2
12.5°	5056.3	5100.6	5191.4	5415.4	5677.7	5980.3	6250.7	6432.3	6494.8	6462.6
15°	4703.2	4741.5	4810.1	5040.1	5381.1	5841.1	6285.0	6638.1	6797.5	6779.3
17.5°	4693.1	4709.2	4751.6	4860.5	5122.8	5623.2	6248.7	6839.9	7144.5	7142.5
20°	4870.6	4876.7	4900.9	4923.1	5072.4	5457.8	6155.9	7007.3	7533.9	7533.9
22.5°	5116.8	5112.7	5137.0	5116.8	5189.4	5443.6	6097.4	7154.6	7967.7	8000.0
25°	5486.0	5465.8	5459.8	5413.4	5427.5	5574.8	6161.9	7322.1	8482.2	8548.8
27.5°	5978.3	5946.0	5923.8	5816.9	5780.6	5845.2	6359.7	7523.9	9055.3	9170.3
30°	6619.9	6561.4	6529.1	6343.5	6212.4	6222.5	6658.3	7792.2	9654.5	9840.1
32.5°	7495.6	7404.8	7318.1	7013.4	6773.3	6694.6	7043.7	8163.5	10304.2	10600.8
35°	8476.2	8403.6	8310.7	7840.6	7471.4	7289.8	7564.2	8682.0	11064.8	11535.0
37.5°	9420.5	9357.9	9402.3	8768.7	8292.6	8028.3	8246.2	9378.1	12003.1	12697.1
40°	10397.0	10348.6	10354.6	9749.3	9194.5	8897.9	9073.4	10251.7	13078.5	14079.2
42.5°	11458.3	11422.0	11300.9	10764.2	10140.8	9864.3	10025.8	11260.6	14232.6	15653.0
45°	12646.7	12624.5	12511.5	11896.1	11181.9	10871.2	11089.1	12374.3	15392.7	17134.0
47.5°	13673.7	13691.8	13677.7	13159.2	12418.7	11962.7	12223.0	13536.5	16472.2	18526.2
50°	14168.0	14262.8	14402.1	14240.6	13780.6	13316.6	13367.0	14658.3	17501.2	19831.6
52.5°	13909.7	14089.3	14468.6	14726.9	14904.5	14807.6	14672.4	15772.0	18469.7	21009.9
55°	12947.3	13199.5	13829.0	14452.5	15358.4	16062.6	16240.1	17006.9	19413.9	22047.0
57.5°	11194.0	11603.6	12168.5	13429.5	14954.9	16669.9	18068.1	18719.8	20414.7	23154.7
60°	8187.7	8736.5	9438.6	11315.0	13542.5	16345.1	19623.8	21350.9	21837.1	24589.2
62.5°	5239.9	5578.8	6224.5	7992.0	10552.4	14680.5	20099.9	24639.7	24248.2	26941.8
65°	3587.4	3805.3	4396.5	5389.2	6821.7	10927.6	18824.8	27105.2	28077.8	30670.4
67.5°	2606.8	2772.3	3276.7	4146.3	4444.9	6466.6	14607.9	26992.3	31800.3	34512.1
70°	1900.6	2017.7	2441.4	3276.7	3419.9	3597.5	8849.5	22944.8	31719.6	35533.0
72.5°	1408.3	1489.0	1773.5	2542.3	2768.2	2429.3	4380.3	16676.0	27256.6	32139.3
75°	1018.9	1079.4	1289.3	1945.0	2215.4	1850.2	2185.1	9745.3	19012.4	22607.9
77.5°	778.8	825.2	962.4	1424.5	1773.5	1388.1	1355.9	4483.2	9014.9	9059.3
80°	625.5	655.7	730.4	1002.8	1359.9	1039.1	883.7	1809.8	2848.9	2411.1
82.5°	460.0	510.5	617.4	704.2	972.5	716.3	538.7	914.0	1083.5	932.2
85°	262.3	296.6	373.3	504.4	621.4	437.8	308.7	405.5	504.4	413.6
87.5°	92.8	121.1	131.1	197.7	270.4	181.6	119.0	117.0	165.4	123.1
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°
5574.8	0°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
5635.3	2.5°	5615.1	5605.1	5564.7	5510.2	5453.7	5399.3	5381.1	5342.8	5316.5	5302.4
5766.5	5°	5728.1	5695.9	5601.0	5480.0	5352.9	5215.7	5118.8	5030.0	4965.5	4904.9
5946.0	7.5°	5889.5	5833.1	5669.6	5457.8	5231.8	5003.8	4834.3	4705.2	4618.4	4561.9
6155.9	10°	6077.2	5990.4	5740.2	5423.5	5074.4	4747.6	4547.8	4436.8	4382.4	4352.1
6396.0	12.5°	6293.1	6170.0	5812.9	5344.8	4834.3	4461.0	4323.8	4291.6	4293.6	4295.6
6698.6	15°	6559.4	6387.9	5871.4	5173.3	4521.6	4241.1	4216.9	4269.4	4323.8	4350.1
7041.6	17.5°	6860.0	6617.9	5881.5	4890.8	4214.9	4099.9	4176.6	4289.5	4372.3	4408.6
7425.0	20°	7182.9	6852.0	5808.8	4491.3	3962.7	3984.9	4122.1	4267.4	4358.1	4404.6
7862.8	22.5°	7552.1	7102.2	5635.3	4071.6	3756.9	3859.8	4021.2	4162.4	4257.3	4303.7
8377.3	25°	7973.8	7382.6	5362.9	3718.5	3579.3	3718.5	3880.0	3997.0	4073.7	4116.0
8952.4	27.5°	8441.9	7675.2	4999.8	3438.1	3424.0	3573.3	3706.4	3797.2	3837.6	3869.9
9563.7	30°	8912.0	7941.5	4559.9	3226.2	3288.8	3430.0	3524.9	3565.2	3577.3	3583.4
10245.7	32.5°	9420.5	8171.5	4097.9	3050.7	3159.7	3290.8	3347.3	3365.5	3309.0	3270.6
11072.9	35°	10035.8	8417.7	3645.9	2911.5	3032.5	3145.5	3163.7	3147.5	3081.0	3002.3
12110.0	37.5°	10796.5	8724.4	3284.8	2812.6	2913.5	2988.2	2966.0	2961.9	2968.0	2875.2
13356.9	40°	11728.7	9123.9	3020.4	2735.9	2816.7	2832.8	2770.2	2804.5	2834.8	2693.6
14724.9	42.5°	12763.7	9606.1	2853.0	2683.5	2735.9	2697.6	2600.8	2639.1	2635.1	2449.4
16098.9	45°	13819.0	10130.7	2794.5	2645.2	2661.3	2584.6	2477.7	2487.8	2403.0	2235.6
17416.4	47.5°	14868.1	10693.6	2830.8	2612.9	2568.5	2481.7	2399.0	2354.6	2229.5	2104.4
18679.5	50°	15897.1	11284.8	2963.9	2548.3	2441.4	2390.9	2330.4	2251.7	2118.5	2011.6
19873.9	52.5°	16851.5	11880.0	3113.2	2441.4	2282.0	2312.2	2273.9	2183.1	2052.0	1943.0
21003.8	55°	17755.4	12475.2	3171.8	2294.1	2132.7	2243.6	2221.4	2054.0	1896.6	1807.8
22186.2	57.5°	18740.0	13191.5	3107.2	2106.4	2011.6	2164.9	2080.2	1894.6	1803.8	1737.2
23725.7	60°	20104.0	14315.3	2968.0	1874.4	1896.6	2047.9	1902.7	1826.0	1727.1	1652.5
26033.9	62.5°	22369.8	16411.6	2744.0	1644.4	1761.4	1874.4	1817.9	1741.2	1640.4	1567.7
29980.4	65°	25719.1	19325.1	2322.3	1464.8	1610.1	1704.9	1727.1	1650.4	1545.5	1468.9
33438.7	67.5°	28543.8	21153.1	1757.4	1315.5	1454.7	1567.7	1630.3	1555.6	1444.6	1370.0
34247.8	70°	28388.5	19825.5	1341.7	1168.2	1317.5	1432.5	1513.2	1454.7	1335.7	1265.1
31108.3	72.5°	25214.7	16585.2	1085.5	1018.9	1178.3	1291.3	1388.1	1343.8	1222.7	1154.1
22789.5	75°	18524.1	11773.0	867.6	867.6	1004.8	1144.0	1250.9	1222.7	1111.7	1063.3
9567.7	77.5°	7808.3	4939.2	680.0	720.3	835.3	982.6	1115.8	1125.9	1029.0	1089.5
2530.1	80°	2076.2	1361.9	518.5	567.0	655.7	811.1	970.5	966.5	861.5	805.0
940.2	82.5°	790.9	536.7	369.2	399.5	474.2	621.4	768.7	792.9	688.0	595.2
369.2	85°	304.7	230.0	228.0	240.1	276.4	411.6	581.1	601.3	518.5	439.8
102.9	87.5°	78.7	68.6	84.7	80.7	127.1	219.9	332.9	345.0	316.8	183.6
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>
5574.8
5318.6
4929.1
4574.0
4360.2
4299.6
4348.1
4416.7
4416.7
4315.8
4128.1
3882.0
3597.5
3282.7
3006.3
2881.2
2697.6
2447.4
2241.6
2104.4
2003.5
1945.0
1799.8
1731.2
1648.4
1567.7
1472.9
1372.0
1271.1
1154.1
1049.2
988.7
748.6
595.2
454.0
262.3
0.0

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