

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: P957669

Luminaire Tested: **GALN-SB9D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957669
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-SB9D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63016 lumens
Efficiency: N/A
Efficacy: 95.8 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

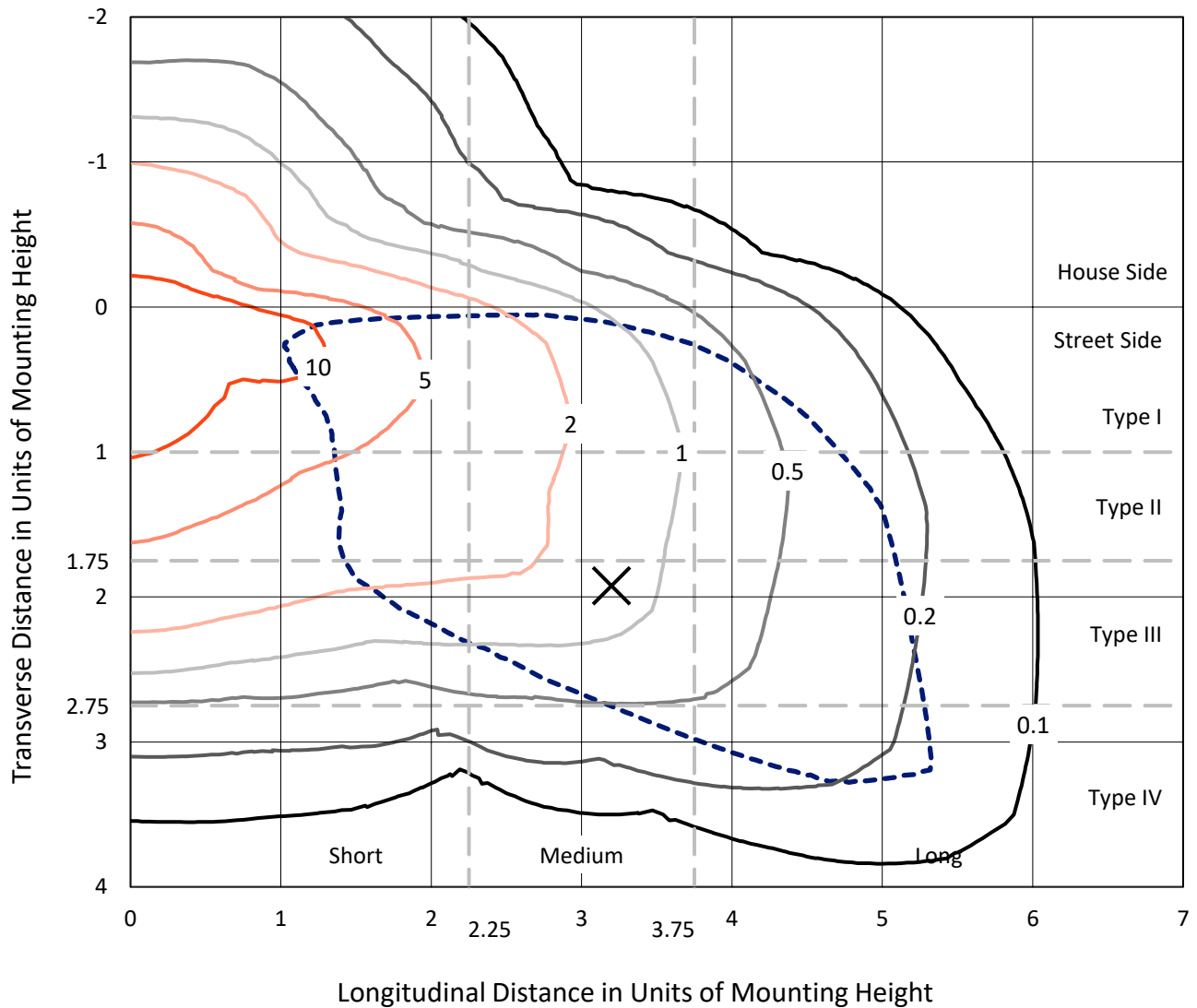
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

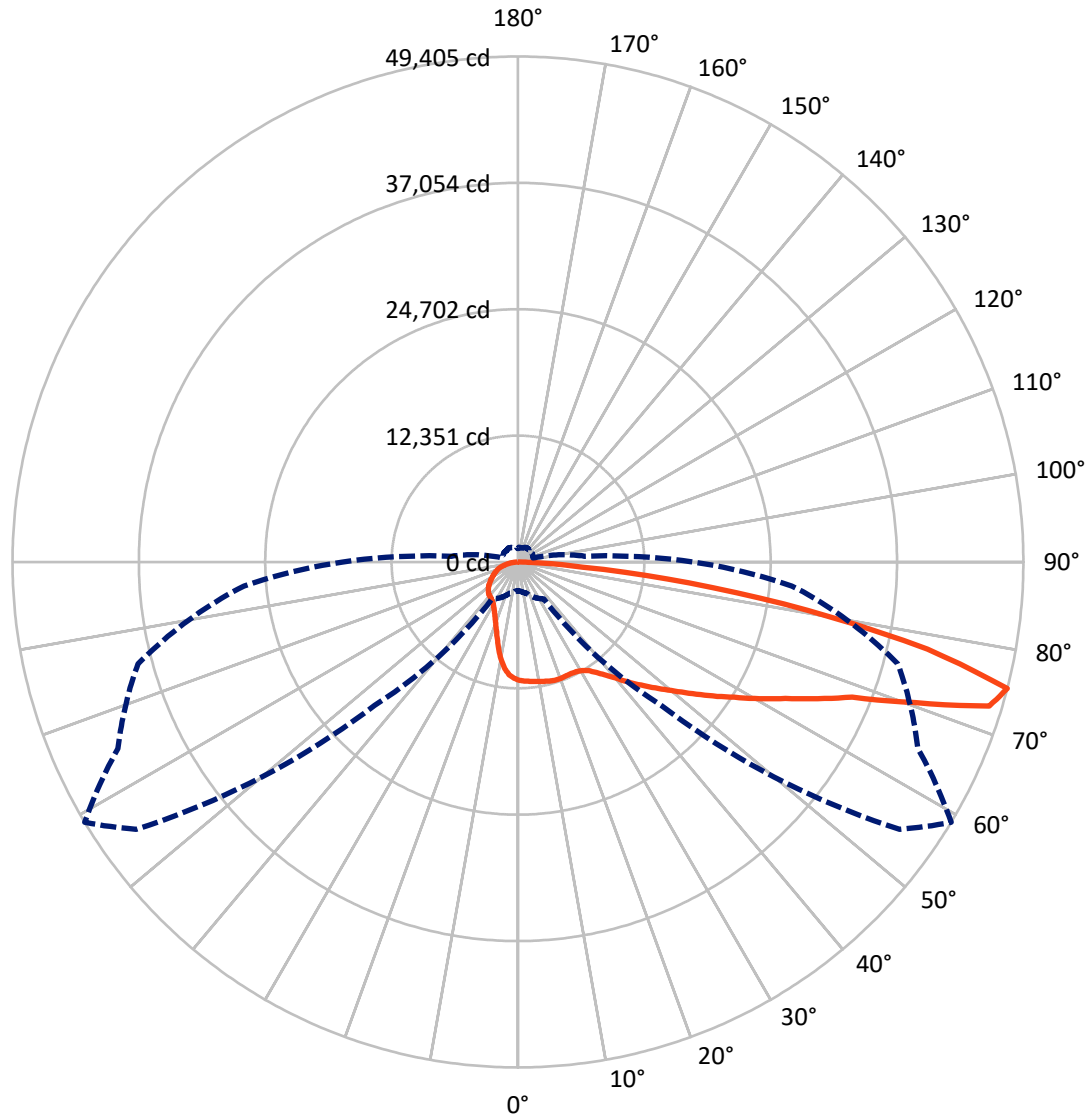
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	11819.1	0.0	11819.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	51196.9	0.0	51196.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	63016.0	0.0	63016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.1	1.6
10°-20°	2650.9	4.2
20°-30°	4026.6	6.4
30°-40°	5985.4	9.5
40°-50°	8901.3	14.1
50°-60°	12082.5	19.2
60°-70°	14750.7	23.4
70°-80°	11576.2	18.4
80°-90°	2005.3	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°	63016.0	100.0
0°-180°	63016.0	100.0

Coefficient of Utilization



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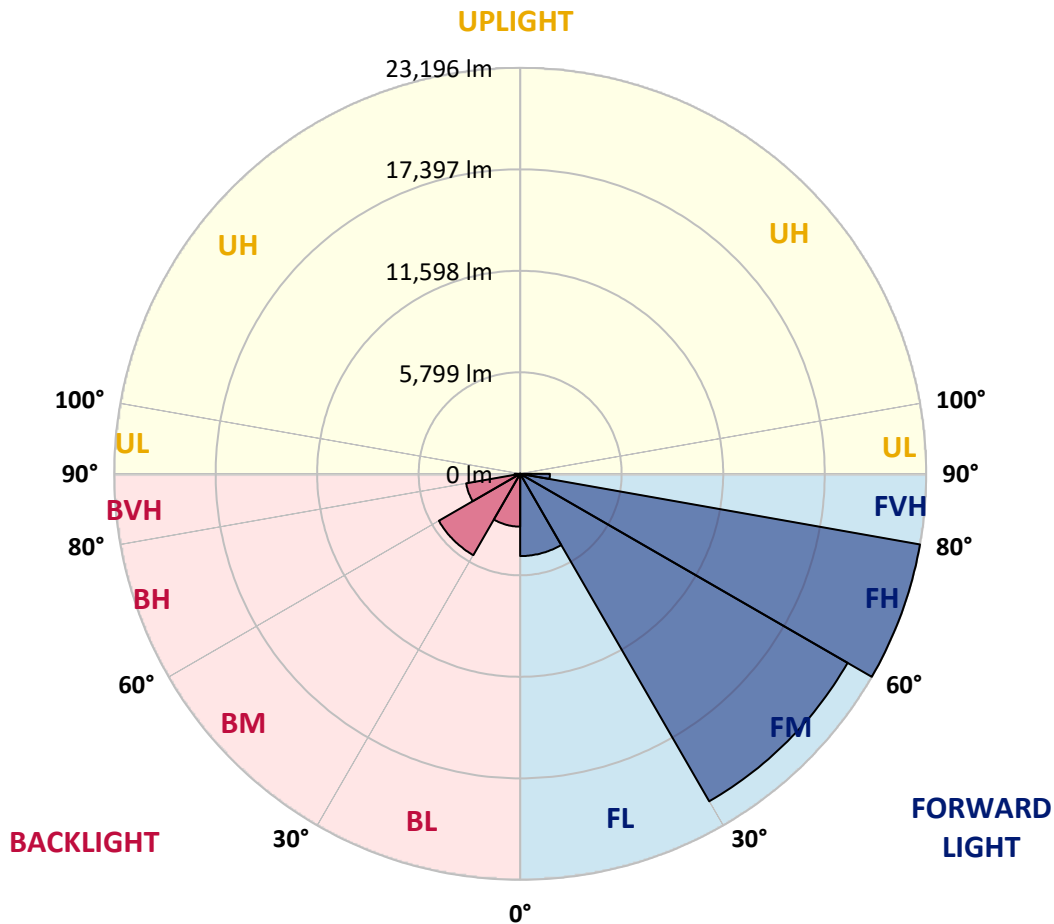
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4698.5	7.5			
FM (30°-60°)	21604.5	34.3			
FH (60°-80°)	23195.6	36.8			G5
FVH (80°-90°)	1698.3	2.7			G5
BL (0°-30°)	3016.1	4.8	B4/5000		
BM (30°-60°)	5364.7	8.5	B4/8500		
BH (60°-80°)	3131.3	5.0	B4/5000		G4/5000
BVH (80°-90°)	307.0	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°	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4
2.5°	11664.8	11624.1	11664.8	11647.8	11641.0	11627.5	11630.9	11654.6	11641.0	11658.0
5°	11586.8	11563.1	11603.7	11593.6	11637.6	11644.4	11688.5	11715.6	11732.6	11735.9
7.5°	11458.0	11434.2	11491.9	11539.3	11634.2	11661.4	11752.9	11797.0	11820.7	11861.4
10°	10986.8	10976.6	11119.0	11298.6	11522.4	11661.4	11800.4	11874.9	11912.2	12020.7
12.5°	10152.8	10166.4	10352.9	10698.6	11146.1	11593.6	11854.6	11963.1	12020.7	12156.3
15°	9356.2	9352.8	9556.2	9925.7	10552.9	11295.3	11881.7	12068.2	12166.5	12366.5
17.5°	8895.2	8881.6	9024.0	9305.4	9888.4	10837.6	11813.9	12125.8	12336.0	12586.8
20°	8810.4	8783.3	8857.9	8996.9	9410.4	10335.9	11637.6	12125.8	12471.6	12797.0
22.5°	9118.9	9074.8	9044.3	9027.4	9210.4	9922.3	11437.6	12085.1	12671.6	13098.7
25°	9739.3	9671.5	9515.5	9363.0	9308.8	9735.9	11261.4	12074.9	12969.9	13505.5
27.5°	10742.7	10657.9	10342.7	9976.6	9647.7	9830.8	11183.4	12136.0	13298.7	13936.0
30°	11986.8	11895.3	11498.6	10935.9	10346.1	10183.4	11281.7	12315.6	13719.1	14508.9
32.5°	13102.1	13000.4	12661.4	12088.5	11291.9	10793.5	11593.6	12658.0	14380.1	15305.5
35°	14091.9	13973.3	13668.2	13139.4	12451.2	11651.2	12156.3	13264.8	15319.1	16600.5
37.5°	15061.5	14922.5	14590.3	14030.9	13549.6	12793.6	12932.6	14044.5	16566.6	18173.4
40°	16146.2	15946.2	15542.8	14990.3	14522.5	14132.6	13953.0	15000.4	17834.4	19929.4
42.5°	17197.1	17007.3	16525.9	16054.7	15468.3	15356.4	15136.0	16119.1	19220.9	21858.3
45°	18329.4	18102.2	17519.2	16922.5	16553.0	16170.0	16281.8	17237.8	20580.3	23824.4
47.5°	19390.4	19136.2	18448.0	17783.6	17580.2	16854.7	17332.7	18468.3	21993.9	25817.7
50°	19963.3	19712.5	19139.6	18539.5	18380.2	17698.8	18471.7	19820.9	23475.3	27804.2
52.5°	20441.3	20170.1	19420.9	19088.7	19041.2	18617.5	19875.2	21366.7	24956.7	29560.2
55°	20949.8	20648.1	19692.1	19393.8	19610.8	19648.0	21539.6	23119.3	26522.8	31272.1
57.5°	21536.2	21153.2	19953.1	19651.4	20166.7	20854.9	23451.5	24936.3	28061.9	32858.6
60°	22088.8	21702.3	20454.8	20061.6	20766.7	22254.9	25644.8	27136.4	29804.3	34272.2
62.5°	22197.3	21878.6	20854.9	20851.5	21580.3	23888.8	28241.5	29356.8	31326.4	35668.9
65°	20319.2	20119.2	19512.4	20821.0	22746.4	26241.5	31133.1	32197.6	33262.0	36889.2
67.5°	15464.9	15492.0	15447.9	17973.4	21804.0	29621.2	35319.7	35238.3	35651.9	38258.8
70°	7071.4	7230.7	8268.0	12407.1	17468.3	30011.1	42241.9	41187.7	38652.0	40031.7
72.5°	3820.5	3942.5	4366.2	6010.3	10502.0	26682.2	47415.0	48164.1	42641.9	41225.0
75°	2803.5	2871.3	3166.2	3820.5	4410.3	19831.1	45560.7	49404.9	43140.3	38441.8
77.5°	2098.4	2128.9	2369.6	3027.2	2257.7	10454.5	36404.5	40916.5	36929.9	31584.0
80°	1522.1	1556.0	1735.6	2271.3	1583.1	3823.8	24997.4	28719.5	25292.3	20132.8
82.5°	1050.9	1064.4	1142.4	1545.8	1105.1	1484.8	14183.5	16841.2	14119.1	7064.6
85°	633.9	650.9	684.8	901.7	627.1	705.1	6122.2	6332.4	4220.5	1688.2
87.5°	261.0	278.0	305.1	379.7	247.5	196.6	1010.2	1267.8	789.9	494.9
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°
11566.4	0°	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4	11566.4
11600.3	2.5°	11583.4	11559.7	11495.3	11407.1	11325.8	11224.1	11180.0	11142.7	11108.8	11044.4
11691.9	5°	11654.6	11590.2	11417.3	11193.6	10939.3	10661.3	10390.1	10203.7	10044.4	9925.7
11797.0	7.5°	11763.1	11641.0	11325.8	10868.1	10285.1	9688.4	9149.4	8766.4	8478.2	8373.1
11946.1	10°	11874.9	11729.2	11180.0	10373.2	9366.4	8447.7	7732.4	7339.2	7108.7	7034.1
12122.4	12.5°	12007.1	11793.6	10952.9	9685.0	8339.2	7332.4	6708.7	6478.2	6359.5	6318.8
12339.4	15°	12200.4	11847.8	10610.5	8824.0	7359.5	6518.8	6115.4	5956.1	5895.1	5891.7
12563.1	17.5°	12346.1	11858.0	10078.3	7901.9	6607.0	6027.3	5695.1	5634.1	5674.7	5735.8
12783.4	20°	12508.8	11766.5	9379.9	7061.2	6078.1	5596.8	5457.8	5498.5	5596.8	5684.9
13075.0	22.5°	12624.1	11600.3	8535.8	6407.0	5620.5	5349.3	5342.5	5427.3	5481.5	5525.6
13417.3	25°	12725.8	11319.0	7640.9	5857.8	5244.2	5200.2	5274.7	5247.6	5210.3	5247.6
13759.7	27.5°	12800.4	10874.9	6840.9	5376.4	4979.8	5098.5	5054.4	4993.4	4990.0	5010.3
14163.1	30°	12776.7	10281.7	6183.2	4918.8	4793.4	4908.6	4803.5	4793.4	4783.2	4793.4
14769.9	32.5°	12776.7	9607.1	5678.1	4603.5	4674.7	4630.6	4620.5	4596.7	4556.1	4552.7
15593.7	35°	12847.8	8932.5	5244.2	4434.0	4576.4	4471.3	4478.1	4420.5	4335.7	4295.0
16685.2	37.5°	12993.6	8390.1	4813.7	4352.7	4403.5	4400.1	4373.0	4274.7	4125.5	3996.7
18048.0	40°	13346.2	8230.8	4518.8	4315.4	4322.2	4362.8	4291.7	4101.8	3762.8	3552.6
19431.1	42.5°	13898.7	8498.6	4454.4	4223.9	4267.9	4308.6	4169.6	3728.9	3488.2	3362.8
20882.0	45°	14600.4	8966.4	4593.4	4091.6	4139.1	4210.3	3796.7	3586.5	3478.1	3481.5
22319.3	47.5°	15488.6	9457.9	4851.0	3976.4	3952.7	3993.3	3549.3	3420.4	3271.3	3308.6
23699.0	50°	16515.7	9956.2	5095.1	3820.5	3745.9	3613.7	3389.9	3267.9	3078.1	2989.9
25031.3	52.5°	17627.6	10437.6	5193.4	3630.6	3522.1	3369.6	3281.5	3132.3	2901.8	2756.0
26288.9	55°	18681.9	10874.9	5084.9	3403.5	3298.4	3179.8	3166.2	3074.7	2827.2	2623.8
27407.6	57.5°	19678.6	11241.0	4813.7	3173.0	3071.3	3000.1	3091.6	3047.5	2735.7	2474.7
28465.3	60°	20522.6	11491.9	4420.5	2939.1	2867.9	2830.6	2969.6	2956.0	2606.9	2315.3
29414.4	62.5°	21193.9	11590.2	3986.6	2715.3	2698.4	2630.6	2800.1	2800.1	2444.1	2159.4
30248.4	65°	21719.3	11495.3	3545.9	2495.0	2528.9	2427.2	2593.3	2573.0	2271.3	2020.4
31207.7	67.5°	22183.7	11183.4	3057.7	2278.0	2356.0	2227.2	2376.3	2328.9	2081.4	1881.4
32038.2	70°	22390.5	10457.9	2501.8	2061.1	2156.0	2030.6	2159.4	2071.2	1867.9	1732.3
31126.4	72.5°	20729.4	8691.8	1969.6	1834.0	1915.3	1813.6	1925.5	1823.8	1637.3	1576.3
26878.8	75°	17149.7	6522.2	1515.3	1586.5	1647.5	1569.5	1644.1	1569.5	1400.0	1444.1
19854.8	77.5°	12454.6	4403.5	1159.4	1325.5	1352.6	1311.9	1376.3	1291.6	1139.0	1128.8
9895.2	80°	6193.4	2579.7	908.5	1047.5	1037.3	1010.2	1084.8	1044.1	915.3	969.5
2671.3	82.5°	1793.3	1105.1	661.0	735.6	715.3	722.1	776.3	796.6	1193.3	1183.1
830.5	85°	562.7	433.9	396.6	410.2	389.8	400.0	457.6	908.5	840.7	491.5
257.6	87.5°	145.8	149.2	98.3	105.1	108.5	128.8	145.8	552.6	264.4	172.9
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>
11566.4
11013.9
9827.4
8190.1
6918.9
6329.0
5905.3
5759.5
5715.4
5549.3
5271.3
5044.2
4830.7
4596.7
4335.7
4040.8
3579.8
3362.8
3498.4
3403.5
3013.6
2752.6
2623.8
2461.1
2305.2
2149.2
2006.8
1867.9
1705.1
1525.5
<i>1318.7</i>
1078.0
959.4
1210.2
532.2
183.1
0.0

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