

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: P954708

Luminaire Tested: **GALN-SB7D-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954708
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-SB7D-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 67653 lumens
Efficiency: N/A
Efficacy: 131.9 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

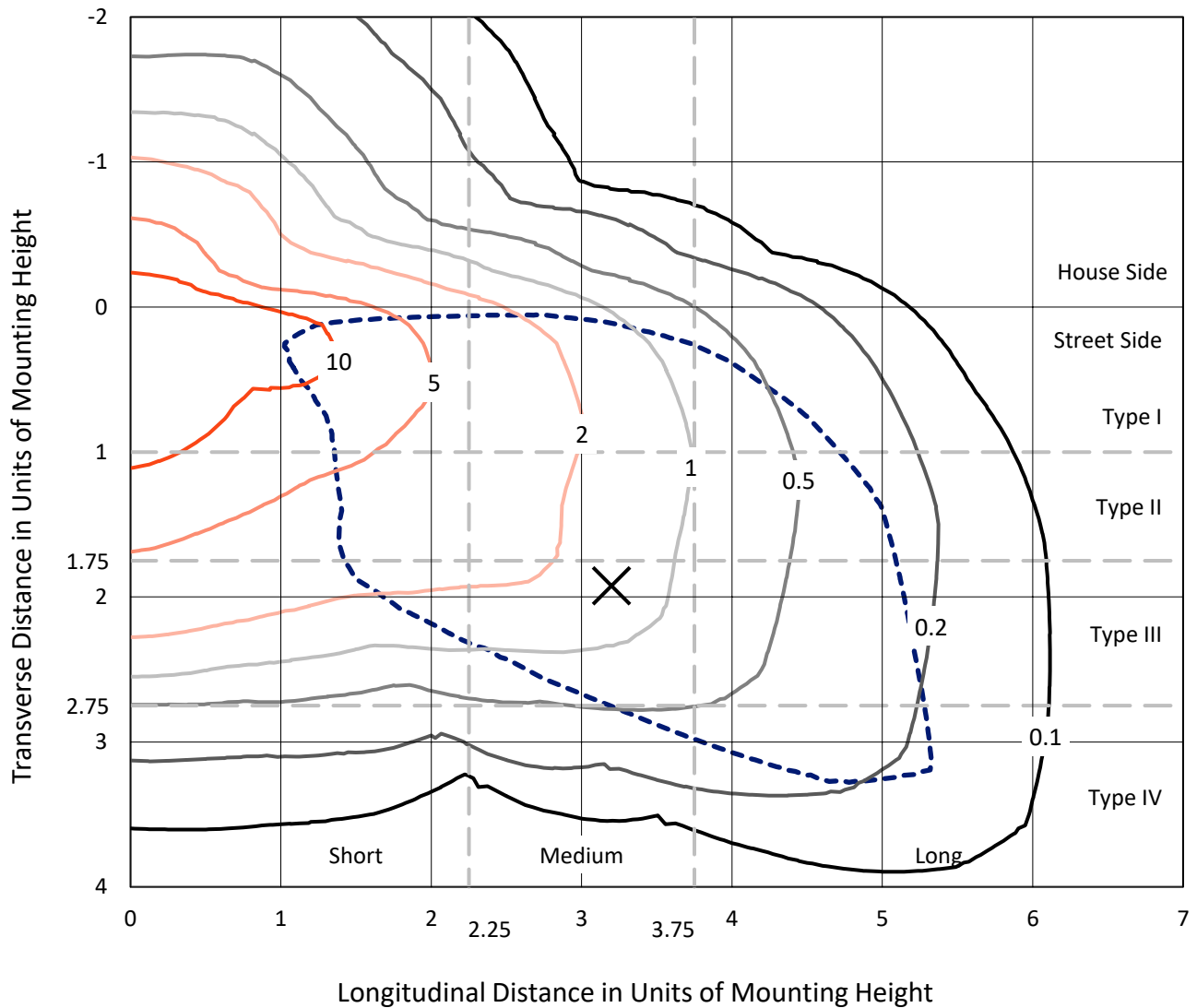
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

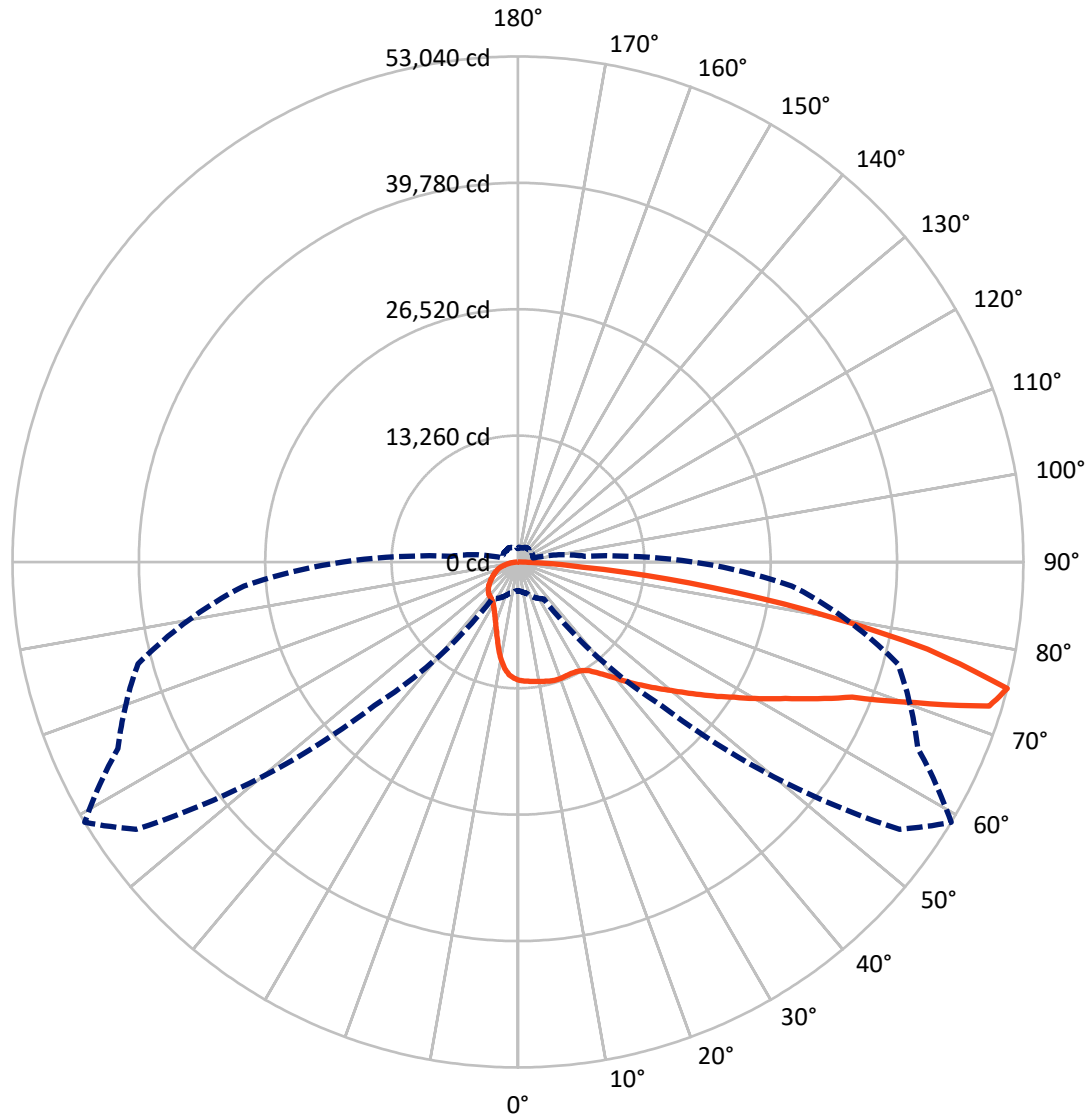
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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	12688.8	0.0	12688.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	54964.2	0.0	54964.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	67653.0	0.0	67653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1113.4	1.6
10°-20°	2846.0	4.2
20°-30°	4322.9	6.4
30°-40°	6425.8	9.5
40°-50°	9556.3	14.1
50°-60°	12971.6	19.2
60°-70°	15836.2	23.4
70°-80°	12428.0	18.4
80°-90°	2152.8	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°	67653.0	100.0
0°-180°	67653.0	100.0

Coefficient of Utilization



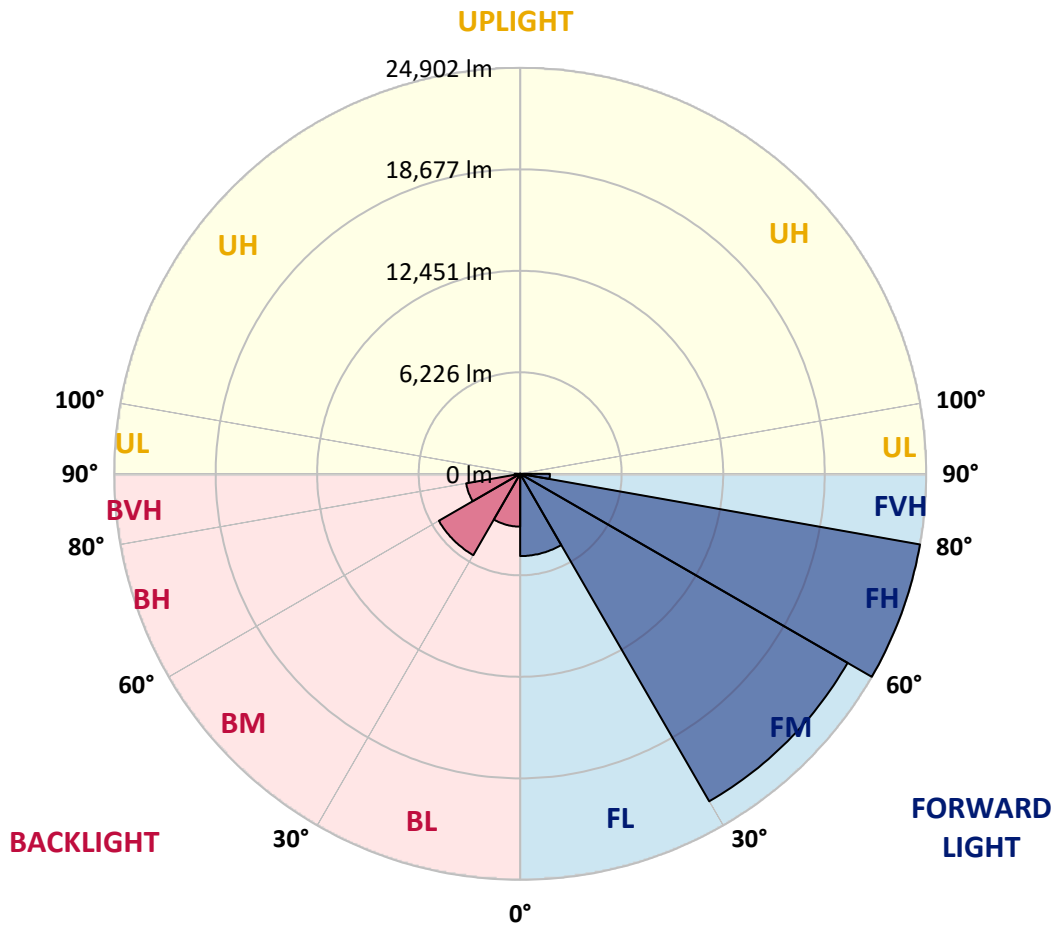
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5044.3	7.5			
FM (30°-60°)	23194.3	34.3			
FH (60°-80°)	24902.4	36.8			G5
FVH (80°-90°)	1823.3	2.7			G5
BL (0°-30°)	3238.0	4.8	B4/5000		
BM (30°-60°)	5759.4	8.5	B4/8500		
BH (60°-80°)	3361.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	329.5	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°	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6
2.5°	12523.1	12479.4	12523.1	12504.9	12497.6	12483.1	12486.7	12512.2	12497.6	12515.8
5°	12439.4	12413.9	12457.6	12446.7	12494.0	12501.3	12548.6	12577.7	12595.9	12599.5
7.5°	12301.1	12275.6	12337.5	12388.4	12490.3	12519.5	12617.7	12665.0	12690.5	12734.2
10°	11795.2	11784.3	11937.2	12130.0	12370.2	12519.5	12668.7	12748.7	12788.8	12905.2
12.5°	10899.9	10914.5	11114.7	11485.9	11966.3	12446.7	12726.9	12843.4	12905.2	13050.8
15°	10044.7	10041.0	10259.4	10656.1	11329.4	12126.4	12756.0	12956.2	13061.7	13276.5
17.5°	9549.7	9535.2	9688.0	9990.1	10616.1	11635.1	12683.2	13018.1	13243.7	13513.0
20°	9458.7	9429.6	9509.7	9658.9	10102.9	11096.5	12494.0	13018.1	13389.3	13738.7
22.5°	9789.9	9742.6	9709.9	9691.7	9888.2	10652.5	12279.3	12974.4	13604.0	14062.6
25°	10455.9	10383.1	10215.7	10052.0	9993.7	10452.3	12090.0	12963.5	13924.3	14499.3
27.5°	11533.2	11442.2	11103.7	10710.7	10357.7	10554.2	12006.3	13029.0	14277.3	14961.5
30°	12868.8	12770.6	12344.8	11740.6	11107.4	10932.7	12111.8	13221.9	14728.6	15576.5
32.5°	14066.2	13957.0	13593.1	12978.0	12122.8	11587.8	12446.7	13589.4	15438.2	16431.8
35°	15128.9	15001.5	14674.0	14106.2	13367.4	12508.5	13050.8	14240.9	16446.3	17822.0
37.5°	16169.8	16020.5	15663.9	15063.4	14546.6	13735.0	13884.2	15077.9	17785.6	19510.7
40°	17334.4	17119.6	16686.5	16093.3	15591.1	15172.6	14979.7	16104.2	19146.8	21395.9
42.5°	18462.6	18258.8	17742.0	17236.1	16606.5	16486.4	16249.8	17305.2	20635.3	23466.7
45°	19678.1	19434.3	18808.3	18167.8	17771.1	17359.8	17479.9	18506.2	22094.7	25577.5
47.5°	20817.2	20544.3	19805.5	19092.2	18873.8	18095.0	18608.1	19827.3	23612.3	27717.5
50°	21432.3	21163.0	20547.9	19903.8	19732.7	19001.2	19831.0	21279.4	25202.7	29850.2
52.5°	21945.4	21654.3	20850.0	20493.3	20442.4	19987.5	21337.7	22939.0	26793.1	31735.4
55°	22491.4	22167.5	21141.1	20820.9	21053.8	21093.8	23124.6	24820.6	28474.5	33573.3
57.5°	23121.0	22709.7	21421.4	21097.5	21650.7	22389.5	25177.2	26771.3	30126.8	35276.5
60°	23714.2	23299.3	21960.0	21537.8	22294.8	23892.5	27531.9	29133.2	31997.4	36794.1
62.5°	23830.6	23488.5	22389.5	22385.8	23168.3	25646.7	30319.7	31517.0	33631.5	38293.5
65°	21814.4	21599.7	20948.3	22353.1	24420.2	28172.4	33424.0	34566.8	35709.6	39603.7
67.5°	16602.8	16632.0	16584.6	19296.0	23408.5	31800.9	37918.7	37831.3	38275.3	41074.0
70°	7591.7	7762.8	8876.4	13320.1	18753.7	32219.4	45350.3	44218.4	41496.2	42977.4
72.5°	4101.6	4232.6	4687.5	6452.6	11274.8	28645.5	50904.0	51708.3	45779.7	44258.5
75°	3009.8	3082.6	3399.2	4101.6	4734.8	21290.4	48913.2	53040.3	46314.7	41270.5
77.5°	2252.8	2285.5	2543.9	3250.0	2423.8	11223.8	39083.3	43927.3	39647.4	33908.1
80°	1634.1	1670.5	1863.4	2438.4	1699.6	4105.2	26836.8	30832.8	27153.4	21614.3
82.5°	1128.2	1142.8	1226.5	1659.6	1186.4	1594.0	15227.2	18080.4	15158.0	7584.5
85°	680.6	698.8	735.2	968.1	673.3	757.0	6572.7	6798.4	4531.0	1812.4
87.5°	280.2	298.4	327.5	407.6	265.7	211.1	1084.5	1361.1	848.0	531.3
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°
12417.6	0°	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6	12417.6
12454.0	2.5°	12435.8	12410.3	12341.1	12246.5	12159.2	12050.0	12002.7	11962.6	11926.2	11857.1
12552.2	5°	12512.2	12443.0	12257.4	12017.2	11744.3	11445.8	11154.7	10954.5	10783.5	10656.1
12665.0	7.5°	12628.6	12497.6	12159.2	11667.8	11041.9	10401.3	9822.7	9411.4	9102.1	8989.3
12825.2	10°	12748.7	12592.2	12002.7	11136.5	10055.6	9069.3	8301.4	7879.3	7631.8	7551.7
13014.4	12.5°	12890.7	12661.4	11758.8	10397.7	8952.9	7872.0	7202.3	6954.9	6827.5	6783.8
13247.3	15°	13098.1	12719.6	11391.3	9473.3	7901.1	6998.5	6565.4	6394.4	6328.9	6325.2
13487.5	17.5°	13254.6	12730.5	10819.9	8483.4	7093.1	6470.8	6114.2	6048.6	6092.3	6157.8
13724.1	20°	13429.3	12632.3	10070.2	7580.8	6525.4	6008.6	5859.4	5903.1	6008.6	6103.2
14037.1	22.5°	13553.0	12454.0	9164.0	6878.4	6034.1	5742.9	5735.7	5826.6	5884.9	5932.2
14404.7	25°	13662.2	12151.9	8203.2	6288.8	5630.1	5582.8	5662.9	5633.8	5593.7	5633.8
14772.2	27.5°	13742.3	11675.1	7344.3	5772.1	5346.2	5473.6	5426.3	5360.8	5357.2	5379.0
15205.3	30°	13716.8	11038.2	6638.2	5280.7	5146.1	5269.8	5157.0	5146.1	5135.2	5146.1
15856.8	32.5°	13716.8	10314.0	6096.0	4942.3	5018.7	4971.4	4960.5	4935.0	4891.3	4887.7
16741.1	35°	13793.2	9589.8	5630.1	4760.3	4913.2	4800.3	4807.6	4745.7	4654.8	4611.1
17913.0	37.5°	13949.7	9007.5	5167.9	4673.0	4727.6	4723.9	4694.8	4589.3	4429.1	4290.8
19376.0	40°	14328.2	8836.4	4851.3	4632.9	4640.2	4683.9	4607.5	4403.6	4039.7	3814.1
20860.9	42.5°	14921.4	9123.9	4782.1	4534.7	4582.0	4625.6	4476.4	4003.3	3744.9	3610.3
22418.6	45°	15674.8	9626.2	4931.4	4392.7	4443.7	4520.1	4076.1	3850.5	3734.0	3737.6
23961.7	47.5°	16628.3	10153.9	5207.9	4269.0	4243.5	4287.2	3810.4	3672.1	3512.0	3552.0
25442.9	50°	17731.0	10688.9	5470.0	4101.6	4021.5	3879.6	3639.4	3508.4	3304.6	3209.9
26873.2	52.5°	18924.8	11205.6	5575.5	3897.8	3781.3	3617.5	3522.9	3362.8	3115.3	2958.8
28223.4	55°	20056.6	11675.1	5459.1	3653.9	3541.1	3413.7	3399.2	3300.9	3035.2	2816.9
29424.4	57.5°	21126.6	12068.2	5167.9	3406.5	3297.3	3220.8	3319.1	3271.8	2937.0	2656.7
30559.9	60°	22032.8	12337.5	4745.7	3155.3	3078.9	3038.9	3188.1	3173.5	2798.7	2485.7
31578.9	62.5°	22753.4	12443.0	4279.9	2915.1	2896.9	2824.2	3006.1	3006.1	2624.0	2318.3
32474.2	65°	23317.5	12341.1	3806.8	2678.6	2715.0	2605.8	2784.1	2762.3	2438.4	2169.1
33504.1	67.5°	23816.1	12006.3	3282.7	2445.7	2529.4	2391.1	2551.2	2500.3	2234.6	2019.9
34395.8	70°	24038.1	11227.5	2685.9	2212.7	2314.6	2180.0	2318.3	2223.7	2005.3	1859.7
33416.8	72.5°	22254.8	9331.4	2114.5	1968.9	2056.2	1947.1	2067.2	1958.0	1757.8	1692.3
28856.6	75°	18411.6	7002.2	1626.8	1703.2	1768.7	1685.0	1765.1	1685.0	1503.1	1550.4
21315.8	77.5°	13371.1	4727.6	1244.7	1423.0	1452.1	1408.4	1477.6	1386.6	1222.8	1211.9
10623.3	80°	6649.1	2769.6	975.4	1124.6	1113.6	1084.5	1164.6	1120.9	982.6	1040.9
2867.8	82.5°	1925.2	1186.4	709.7	789.7	767.9	775.2	833.4	855.3	1281.1	1270.1
891.6	85°	604.1	465.8	425.8	440.4	418.5	429.4	491.3	975.4	902.6	527.7
276.6	87.5°	156.5	160.1	105.5	112.8	116.5	138.3	156.5	593.2	283.9	185.6
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>
12417.6
11824.3
10550.6
8792.7
7428.0
6794.7
6339.8
6183.3
6136.0
5957.7
5659.2
5415.4
5186.1
4935.0
4654.8
4338.1
3843.2
3610.3
3755.8
3653.9
3235.4
2955.2
2816.9
2642.2
2474.8
2307.4
2154.5
2005.3
1830.6
1637.7
1415.7
1157.3
1029.9
1299.3
571.4
196.5
0.0

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