

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: P956689

Luminaire Tested: **GALN-SB9B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39198 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

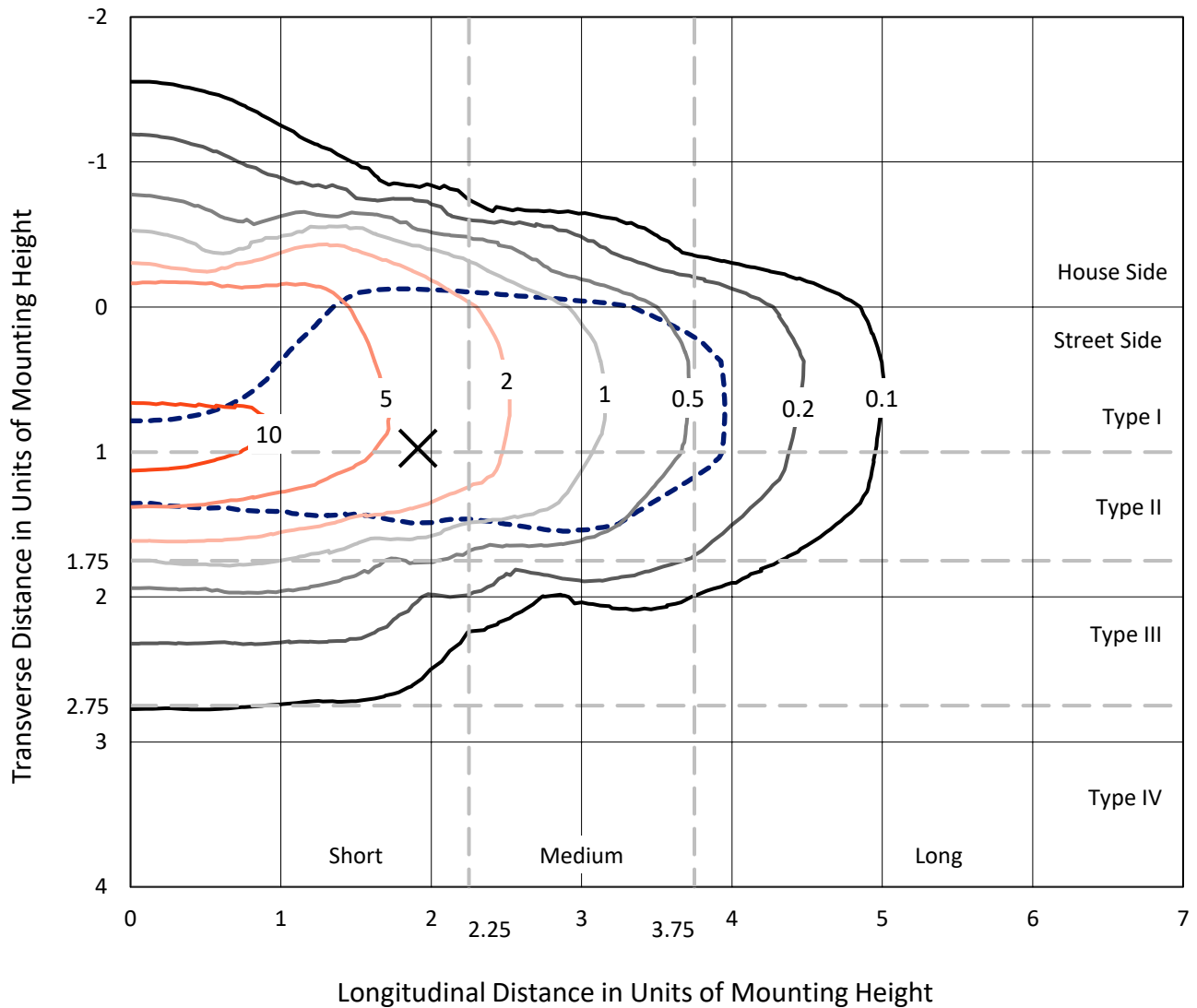
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

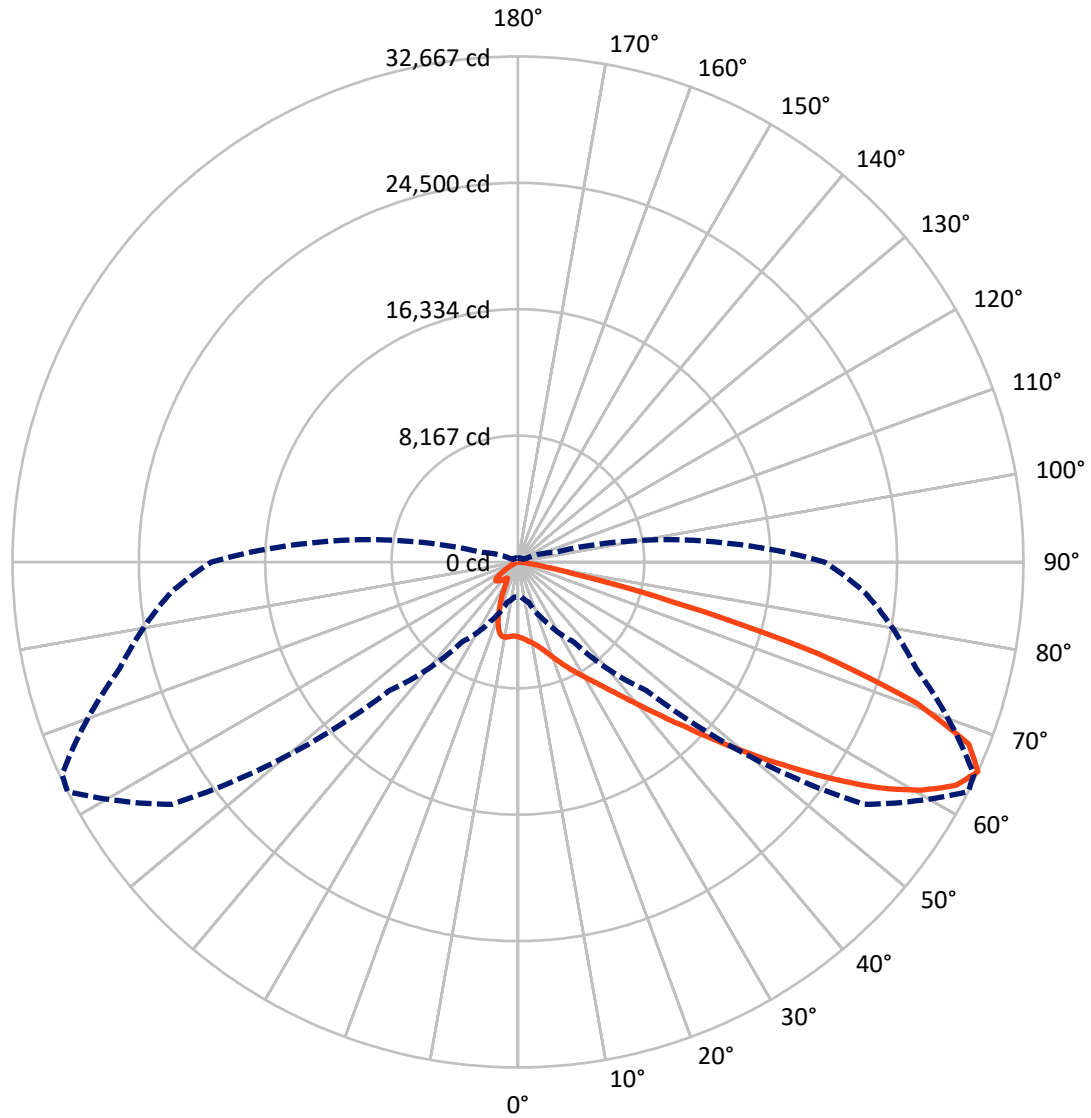
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5761.8	0.0	5761.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	33436.2	0.0	33436.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	39198.0	0.0	39198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	1.2
10°-20°	1264.7	3.2
20°-30°	2202.2	5.6
30°-40°	3969.2	10.1
40°-50°	7872.2	20.1
50°-60°	10723.2	27.4
60°-70°	8559.2	21.8
70°-80°	3873.2	9.9
80°-90°	278.4	0.7
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°	39198.0	100.0
0°-180°	39198.0	100.0

Coefficient of Utilization



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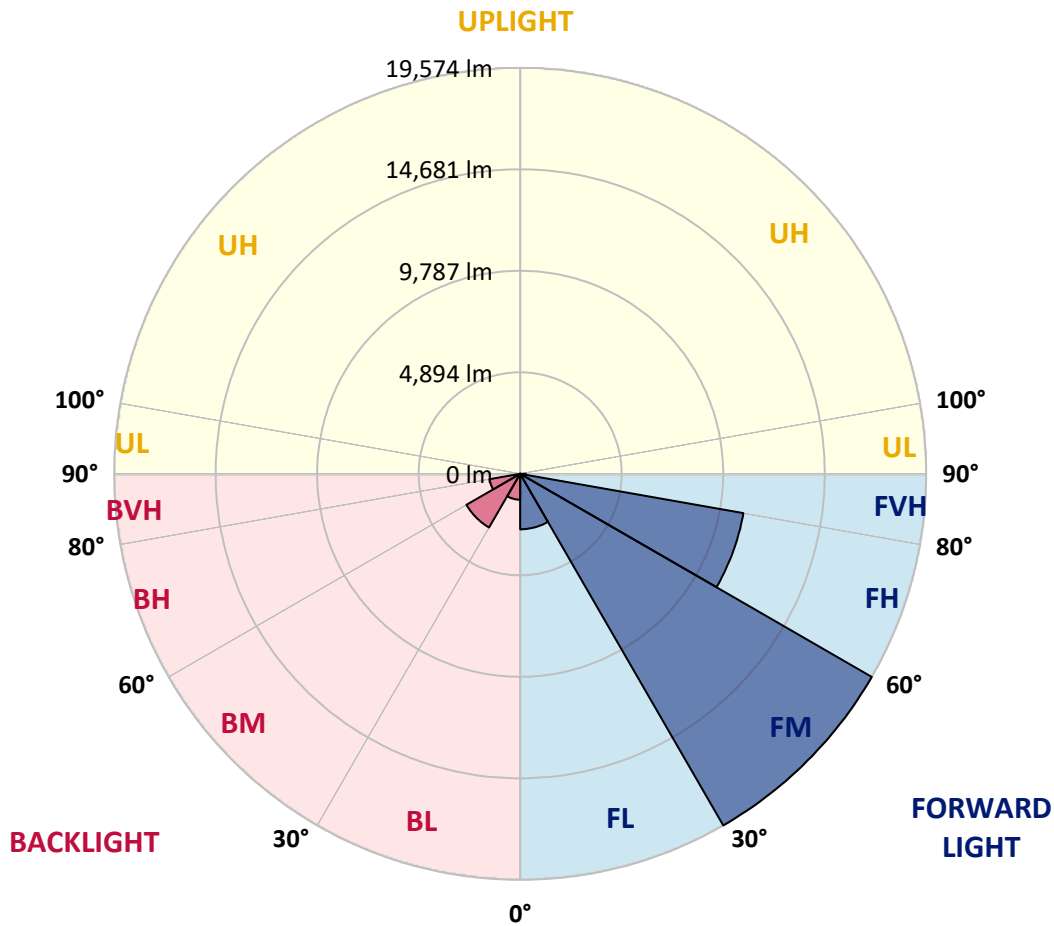
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.7	6.8			
FM (30°-60°)	19574.5	49.9			
FH (60°-80°)	10928.2	27.9			G4/12000
FVH (80°-90°)	257.7	0.7			G3/500
BL (0°-30°)	1246.9	3.2	B3/2500		
BM (30°-60°)	2990.0	7.6	B3/5000		
BH (60°-80°)	1504.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	20.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4951.0	4937.5	4956.4	4948.3	4942.9	4932.2	4926.8	4921.4	4910.6	4902.5
5°	4964.5	4956.4	4975.3	4991.5	5007.7	5023.8	5031.9	5042.7	5031.9	5010.4
7.5°	4851.3	4845.9	4886.3	4934.9	5007.7	5069.7	5137.1	5174.9	5177.6	5169.5
10°	4843.2	4829.7	4870.1	4929.5	5023.8	5134.4	5253.1	5334.0	5344.7	5379.8
12.5°	4969.9	4956.4	5013.1	5077.8	5174.9	5290.8	5436.4	5549.7	5565.9	5614.4
15°	5182.9	5164.1	5228.8	5312.4	5436.4	5568.6	5722.3	5824.7	5838.2	5897.6
17.5°	5431.0	5412.2	5487.7	5576.7	5711.5	5892.2	6070.1	6183.4	6199.6	6237.3
20°	5749.2	5725.0	5784.3	5865.2	6008.1	6223.8	6436.9	6598.7	6596.0	6596.0
22.5°	6118.7	6080.9	6132.2	6196.9	6331.7	6593.3	6876.4	7067.9	7067.9	6992.4
25°	6515.1	6477.3	6534.0	6593.3	6711.9	7008.6	7340.3	7577.6	7588.3	7458.9
27.5°	7011.3	6962.7	7005.9	7076.0	7146.1	7448.1	7841.8	8116.9	8122.3	7922.7
30°	7965.9	7828.3	7693.5	7618.0	7650.4	7949.7	8370.4	8675.1	8702.1	8427.0
32.5°	9713.3	9686.3	9211.7	8591.5	8267.9	8489.0	8960.9	9327.7	9343.9	8990.6
35°	12428.8	12396.5	11633.3	10452.2	9397.8	9211.7	9678.2	10112.4	10101.6	9702.5
37.5°	15670.2	15640.5	14634.7	13054.4	11347.5	10303.9	10603.2	11058.9	11126.3	10603.2
40°	18439.6	18329.1	17692.7	16169.1	13936.2	12116.0	11919.2	12221.2	12291.3	11671.1
42.5°	20537.6	20443.2	20119.6	19167.7	17069.7	14796.5	13469.7	13585.7	13663.9	12919.6
45°	21624.4	21602.8	21732.2	21643.2	20262.6	18086.4	15686.4	15203.7	15233.3	14303.0
47.5°	21778.1	21767.3	22357.8	23193.8	23007.7	21796.9	18531.3	17220.7	17115.6	15864.3
50°	20872.0	20850.4	21983.0	23549.8	24841.5	24914.3	21761.9	19494.0	19262.1	17479.6
52.5°	17978.5	17973.1	19833.8	22441.4	25486.0	27643.3	24954.7	21991.1	21602.8	19189.3
55°	13833.8	13933.5	16066.6	19148.8	24310.2	28956.5	27821.2	24763.3	24167.3	20909.8
57.5°	9799.6	9945.2	12054.0	14799.2	20664.4	28179.9	29760.1	27540.8	26899.0	22624.8
60°	5263.8	5393.3	7504.8	10781.2	15373.5	25283.7	30782.2	29951.6	29344.8	24253.6
62.5°	3136.2	3179.3	4053.1	6960.0	10398.2	19316.0	30348.0	31788.0	31289.1	25620.8
65°	2251.7	2259.8	2699.3	4249.9	6312.8	11735.8	27303.5	32667.1	32513.4	26650.9
67.5°	1895.7	1890.3	2073.7	2823.4	4301.1	5878.7	20925.9	31424.0	32076.5	27303.5
70°	1626.1	1634.2	1849.9	2068.3	3233.3	3327.7	10403.6	27360.1	28751.6	27476.1
72.5°	1210.8	1237.8	1437.3	1885.0	2440.5	2289.4	3591.9	20286.8	22802.8	25887.8
75°	854.8	868.3	1011.2	1585.6	1820.2	1666.5	1833.7	10487.2	13712.4	19847.3
77.5°	658.0	682.3	765.8	1108.3	1793.3	1170.3	1121.8	3629.7	5576.7	11989.3
80°	356.0	399.1	552.8	800.9	1259.3	827.9	555.5	1445.4	1890.3	5606.3
82.5°	183.4	204.9	385.6	577.1	717.3	722.7	275.1	601.4	779.3	1731.2
85°	72.8	89.0	258.9	318.2	369.4	356.0	124.0	242.7	280.5	480.0
87.5°	16.2	27.0	94.4	72.8	70.1	75.5	29.7	56.6	53.9	56.6
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°
4837.8	0°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
4870.1	2.5°	4867.4	4856.7	4827.0	4794.6	4756.9	4735.3	4721.8	4719.1	4700.2	4686.8
4978.0	5°	4948.3	4937.5	4880.9	4813.5	4740.7	4684.1	4630.1	4581.6	4511.5	4498.0
5134.4	7.5°	5110.1	5080.5	4988.8	4897.1	4759.6	4595.1	4395.5	4166.3	3961.4	3899.3
5342.0	10°	5309.7	5269.2	5153.3	4991.5	4686.8	4239.1	3756.4	3308.8	2952.8	2853.0
5587.4	12.5°	5536.2	5501.1	5347.4	5048.1	4382.0	3570.4	2831.5	2276.0	1930.8	1844.5
5849.0	15°	5805.9	5754.6	5541.6	4961.8	3837.3	2712.8	1944.3	1615.3	1491.2	1475.1
6148.3	17.5°	6091.7	6008.1	5714.2	4651.7	3103.8	1928.1	1502.0	1407.6	1353.7	1337.5
6450.4	20°	6353.3	6245.4	5816.7	4182.5	2319.1	1502.0	1345.6	1283.6	1235.1	1216.2
6752.4	22.5°	6614.9	6461.2	5816.7	3543.4	1739.3	1332.1	1235.1	1178.4	1121.8	1097.5
7076.0	25°	6887.2	6682.3	5714.2	2831.5	1399.6	1221.6	1129.9	1067.9	1019.3	989.7
7383.4	27.5°	7151.5	6868.3	5479.6	2157.3	1245.8	1124.5	1032.8	973.5	927.6	906.1
7717.8	30°	7402.3	7051.7	5150.6	1636.9	1146.1	1030.1	943.8	892.6	846.7	825.2
8151.9	32.5°	7742.1	7283.6	4800.0	1342.9	1059.8	941.1	862.9	814.4	773.9	757.8
8715.5	35°	8214.0	7626.1	4498.0	1318.7	987.0	868.3	790.1	744.3	703.8	690.3
9443.6	37.5°	8882.7	8178.9	4338.9	1480.5	927.6	803.6	730.8	682.3	644.5	633.7
10368.6	40°	9707.9	8928.6	4425.2	1642.3	887.2	747.0	676.9	628.3	596.0	582.5
11431.1	42.5°	10686.8	9853.5	4902.5	1766.3	860.2	698.4	625.6	571.7	550.1	544.7
12636.5	45°	11811.3	10870.2	5633.3	1898.4	817.1	652.6	574.4	533.9	517.8	515.1
13947.0	47.5°	13089.5	11986.6	6480.0	2062.9	773.9	609.4	533.9	507.0	493.5	488.1
15314.2	50°	14356.9	13111.1	7351.0	2154.6	738.9	569.0	501.6	480.0	469.2	466.5
16759.6	52.5°	15683.7	14267.9	8054.9	2068.3	709.2	536.6	474.6	458.4	447.6	444.9
18091.8	55°	16948.4	15203.7	8176.2	1755.5	649.9	504.3	444.9	436.9	423.4	423.4
19442.8	57.5°	18037.8	15672.9	7318.7	1289.0	590.6	455.7	415.3	407.2	396.4	393.7
20661.7	60°	19038.3	15538.0	5649.5	868.3	525.8	407.2	377.5	372.1	361.3	347.9
21721.4	62.5°	19601.9	14944.8	3864.3	566.3	461.1	356.0	334.4	331.7	307.4	280.5
22506.2	65°	19814.9	13725.9	2410.8	412.6	385.6	304.7	288.5	283.1	248.1	218.4
22951.1	67.5°	19628.8	11719.6	1216.2	326.3	304.7	253.5	237.3	237.3	213.0	186.1
22924.1	70°	18884.6	8785.7	512.4	261.6	234.6	194.2	194.2	204.9	180.7	151.0
21734.9	72.5°	17269.3	5911.0	272.4	199.6	175.3	137.5	159.1	167.2	142.9	113.3
17789.7	75°	13728.6	3605.4	188.8	148.3	110.6	97.1	121.3	126.7	97.1	75.5
12196.9	77.5°	9389.7	2071.0	126.7	94.4	70.1	56.6	83.6	78.2	51.2	35.1
4702.9	80°	4123.2	862.9	72.8	43.1	27.0	21.6	29.7	21.6	16.2	10.8
644.5	82.5°	482.7	202.2	27.0	16.2	10.8	5.4	2.7	0.0	0.0	0.0
196.9	85°	99.8	24.3	13.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0
35.1	87.5°	18.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4837.8
4700.2
4492.6
3869.7
2815.3
1820.2
1458.9
1329.4
1205.4
1084.0
978.9
906.1
827.9
757.8
690.3
631.0
579.8
544.7
512.4
488.1
466.5
444.9
420.7
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