

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: P956945

Luminaire Tested: **GALN-SB9B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28629 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

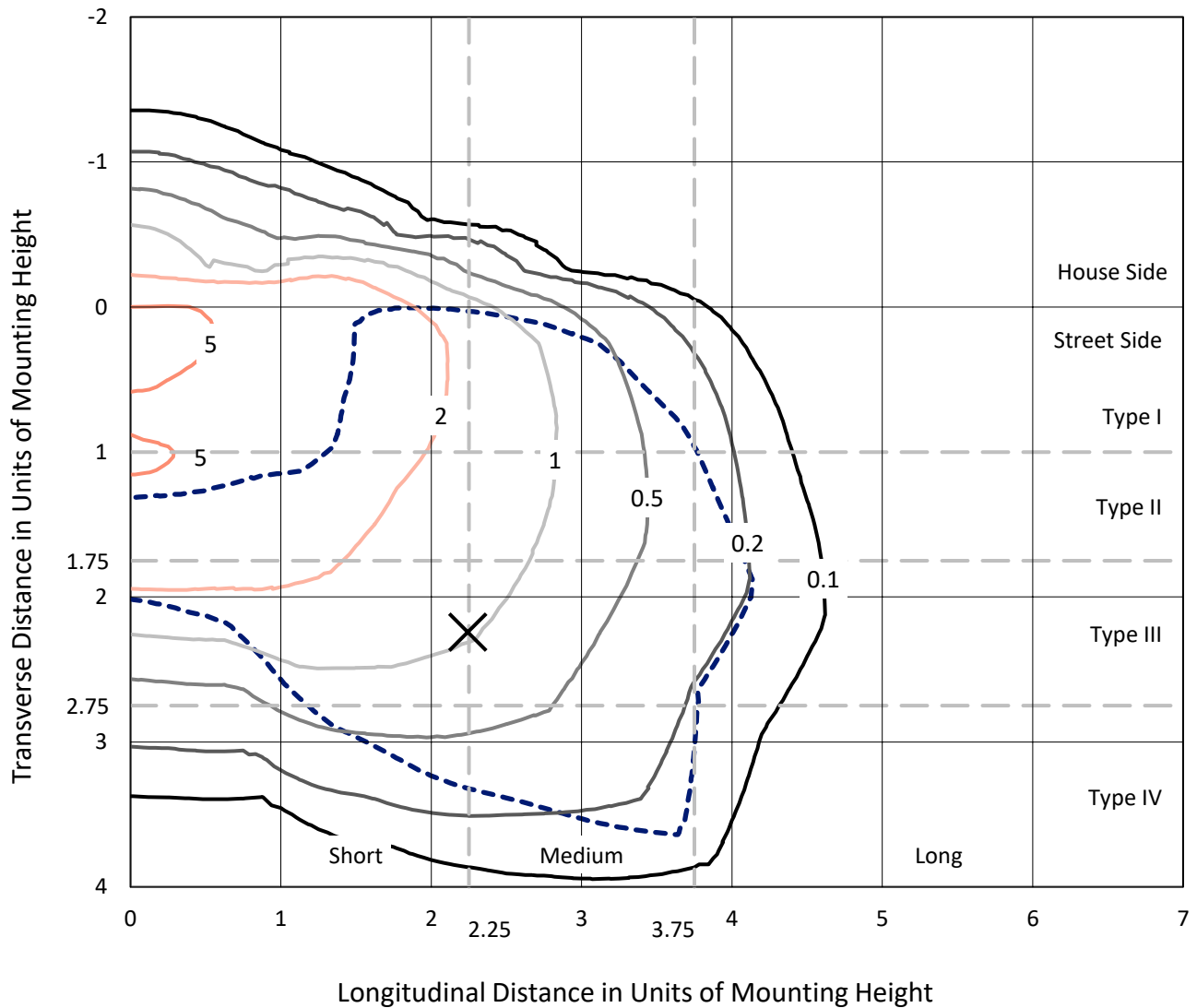
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

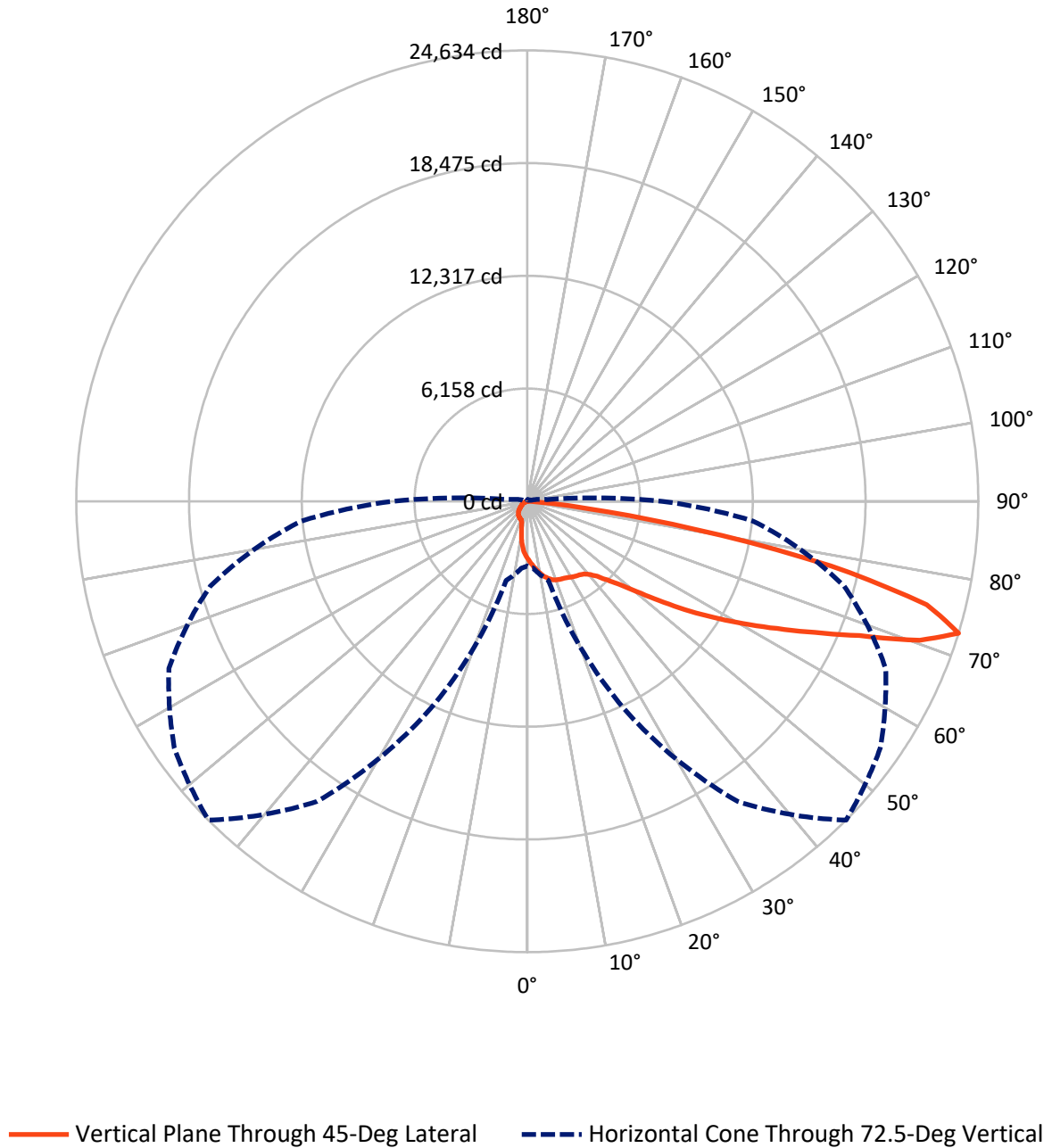
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.1	0.0	3008.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25620.9	0.0	25620.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	28629.0	0.0	28629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.0
10°-20°	863.6	3.0
20°-30°	1418.2	5.0
30°-40°	2011.4	7.0
40°-50°	3324.6	11.6
50°-60°	5972.3	20.9
60°-70°	8292.9	29.0
70°-80°	6015.4	21.0
80°-90°	434.9	1.5
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°	28629.0	100.0
0°-180°	28629.0	100.0

Coefficient of Utilization



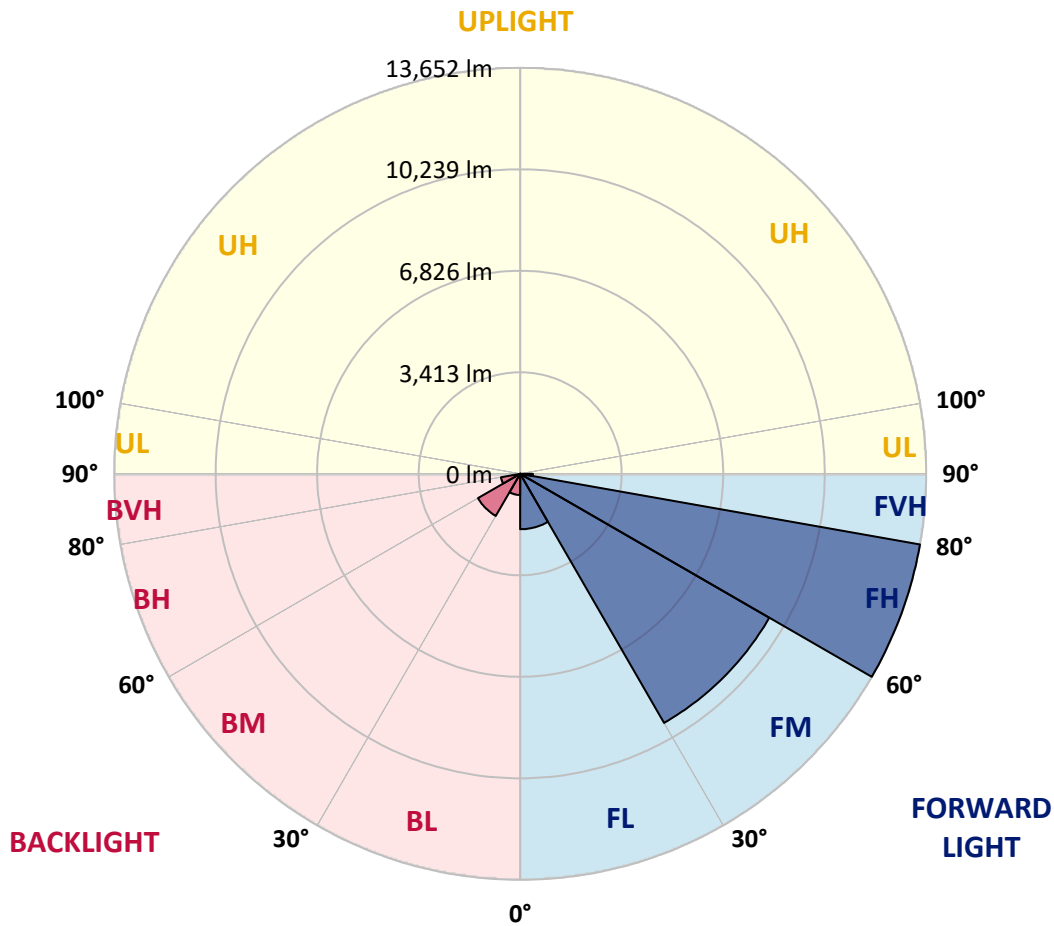
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.9	6.5			
FM (30°-60°)	9672.4	33.8			
FH (60°-80°)	13652.3	47.7			G5
FVH (80°-90°)	431.2	1.5			G3/500
BL (0°-30°)	712.5	2.5	B2/1000		
BM (30°-60°)	1636.0	5.7	B2/2500		
BH (60°-80°)	656.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3425.6	3431.4	3427.5	3404.1	3365.0	3343.5	3331.8	3292.7	3267.3	3222.3
5°	3740.2	3763.6	3750.0	3703.1	3628.8	3576.0	3560.4	3480.3	3408.0	3324.0
7.5°	4074.3	4086.1	4060.7	4000.1	3900.4	3810.5	3796.9	3685.5	3570.2	3441.2
10°	4363.6	4377.2	4338.2	4250.2	4136.9	4025.5	4006.0	3882.8	3746.1	3587.8
12.5°	4605.9	4619.5	4568.7	4463.2	4338.2	4222.9	4203.3	4074.3	3923.9	3748.0
15°	4789.6	4815.0	4746.6	4633.2	4498.4	4383.1	4373.3	4246.3	4099.8	3904.3
17.5°	4897.0	4922.4	4858.0	4721.2	4605.9	4508.2	4496.4	4390.9	4254.1	4066.5
20°	4914.6	4938.1	4869.7	4750.5	4654.7	4576.6	4570.7	4494.5	4394.8	4215.0
22.5°	4861.9	4891.2	4828.6	4732.9	4666.4	4625.4	4617.6	4574.6	4517.9	4365.5
25°	4807.1	4830.6	4783.7	4699.7	4664.5	4660.6	4666.4	4658.6	4646.9	4517.9
27.5°	4803.2	4828.6	4775.9	4695.8	4676.2	4717.3	4723.1	4760.2	4770.0	4656.7
30°	4836.5	4854.0	4803.2	4719.2	4709.4	4803.2	4805.2	4871.6	4887.3	4773.9
32.5°	4908.8	4928.3	4877.5	4754.4	4740.7	4871.6	4877.5	4965.4	4990.8	4899.0
35°	5078.8	5102.2	5043.6	4852.1	4803.2	4936.1	4953.7	5057.3	5108.1	5031.9
37.5°	5502.8	5434.4	5354.3	5049.5	4945.9	5037.7	5067.0	5188.2	5278.1	5190.2
40°	6556.1	6341.1	6091.0	5385.6	5196.0	5254.6	5278.1	5399.2	5522.4	5436.4
42.5°	8137.0	7882.9	7480.4	6159.4	5573.2	5602.5	5620.1	5725.6	5899.5	5831.1
45°	9545.9	9454.0	9043.7	7480.4	6278.6	6134.0	6155.5	6210.2	6466.2	6440.8
47.5°	10628.5	10575.7	10259.1	8996.8	7470.6	6784.7	6845.3	6870.7	7240.0	7329.9
50°	11460.9	11441.4	11158.0	10345.1	9028.0	7744.2	7765.7	7711.0	8264.0	8486.8
52.5°	12246.5	12312.9	12103.8	11597.7	10691.0	9000.7	8996.8	8738.8	9485.3	9821.4
55°	12955.8	12979.3	13000.8	12875.7	12363.7	10431.1	10394.0	9971.9	10902.1	11249.9
57.5°	13622.2	13632.0	13823.5	14079.5	14104.9	11967.1	11898.7	11392.5	12449.7	12697.9
60°	14069.7	14114.6	14519.1	15230.4	15541.1	13551.8	13514.7	12998.8	14024.7	14140.0
62.5°	13424.8	13698.4	14718.5	16129.3	16897.3	15308.6	15291.0	14806.4	15681.8	15588.0
65°	10866.9	11330.0	13123.9	16737.1	18228.1	17270.5	17295.9	16780.1	17383.9	17079.0
67.5°	7601.5	8090.1	10212.2	16785.9	19715.1	19574.5	19721.0	18912.0	19191.4	18507.5
70°	5256.6	5508.7	6890.2	15734.6	20873.9	22747.9	22744.0	21530.5	20989.2	19158.2
72.5°	3535.0	3665.9	4474.9	12482.9	20021.9	24633.7	24520.3	23531.6	21595.0	17917.4
75°	1491.0	1586.7	2071.4	7015.3	15840.1	22536.9	22230.1	20795.8	19187.5	14108.8
77.5°	472.9	513.9	816.8	2511.0	8725.2	16940.3	16615.9	12987.1	12860.1	7077.8
80°	224.7	261.9	459.2	1008.3	3433.4	9213.7	9168.7	5891.7	5532.1	1911.1
82.5°	97.7	115.3	254.0	539.3	1535.9	3286.8	3353.3	2004.9	1659.1	725.0
85°	31.3	41.0	117.2	248.2	648.8	816.8	807.1	476.8	668.3	394.7
87.5°	0.0	0.0	39.1	56.7	66.4	46.9	52.8	41.0	185.6	109.4
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°
3136.4	0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
3175.5	2.5°	3152.0	3120.7	3066.0	3015.2	2970.3	2925.3	2898.0	2858.9	2855.0	2855.0
3226.3	5°	3173.5	3122.7	3025.0	2921.4	2802.2	2688.9	2575.5	2466.1	2430.9	2405.5
3308.3	7.5°	3236.0	3155.9	3001.5	2804.2	2577.5	2329.3	2155.4	1967.8	1895.5	1856.4
3417.8	10°	3325.9	3216.5	2982.0	2636.1	2268.7	1930.7	1682.5	1479.3	1401.1	1367.9
3537.0	12.5°	3425.6	3290.7	2946.8	2427.0	1930.7	1526.2	1283.9	1190.1	1178.3	1178.3
3679.6	15°	3544.8	3380.6	2886.2	2180.8	1577.0	1207.6	1121.7	1125.6	1137.3	1145.1
3818.4	17.5°	3667.9	3476.4	2790.5	1905.3	1264.3	1086.5	1088.4	1094.3	1104.1	1111.9
3968.8	20°	3800.8	3572.1	2663.5	1612.2	1084.5	1051.3	1057.2	1063.0	1070.9	1074.8
4109.5	22.5°	3943.4	3662.0	2513.0	1324.9	1024.0	1022.0	1024.0	1029.8	1039.6	1039.6
4273.7	25°	4095.8	3761.7	2341.0	1115.8	992.7	992.7	996.6	1000.5	1008.3	1008.3
4432.0	27.5°	4252.2	3853.5	2159.3	1006.4	965.3	963.4	963.4	969.2	973.2	975.1
4588.3	30°	4424.1	3961.0	1977.6	982.9	943.8	934.1	928.2	932.1	936.0	938.0
4752.4	32.5°	4600.0	4064.6	1815.4	992.7	922.3	904.8	885.2	881.3	881.3	889.1
4922.4	35°	4795.4	4177.9	1690.3	1025.9	910.6	861.8	830.5	812.9	814.9	826.6
5125.7	37.5°	5029.9	4314.7	1598.5	1055.2	902.8	812.9	762.1	740.6	726.9	740.6
5405.1	40°	5336.7	4516.0	1532.0	1078.7	893.0	756.2	687.9	652.7	627.3	635.1
5838.9	42.5°	5788.1	4832.5	1506.6	1080.6	871.5	689.8	611.6	564.7	527.6	529.6
6491.6	45°	6421.2	5332.8	1637.6	1055.2	824.6	617.5	531.5	469.0	445.5	439.7
7466.7	47.5°	7288.9	6061.7	1940.4	1002.5	756.2	547.2	453.4	400.6	383.0	373.2
8746.7	50°	8451.6	6997.7	2276.6	943.8	687.9	480.7	388.9	355.7	343.9	334.2
10265.0	52.5°	9799.9	7947.4	2552.1	885.2	619.5	422.1	347.8	328.3	318.5	310.7
11730.6	55°	11036.9	8602.1	2536.5	822.7	553.0	375.2	318.5	306.8	295.1	287.3
12993.0	57.5°	11806.8	8693.9	2090.9	754.3	476.8	338.1	291.2	283.3	269.7	259.9
14085.3	60°	12160.5	8170.2	1465.6	664.4	400.6	302.9	261.9	257.9	240.4	226.7
15119.1	62.5°	12225.0	7197.0	977.1	553.0	334.2	269.7	232.5	226.7	203.2	179.8
15959.3	65°	11963.1	5805.7	676.1	431.9	285.3	234.5	199.3	187.6	162.2	138.7
16158.6	67.5°	11134.6	4076.3	470.9	310.7	242.3	185.6	158.3	154.4	134.8	115.3
15142.5	70°	9616.2	2323.5	314.6	232.5	191.5	127.0	125.1	129.0	109.4	93.8
12371.6	72.5°	7372.9	1063.0	195.4	170.0	130.9	86.0	99.7	101.6	84.0	70.3
7718.8	75°	4340.1	455.3	123.1	109.4	66.4	56.7	72.3	74.3	56.7	44.9
2821.8	77.5°	1477.3	172.0	78.2	64.5	33.2	31.3	46.9	46.9	31.3	17.6
566.7	80°	336.1	64.5	39.1	25.4	15.6	13.7	15.6	13.7	7.8	2.0
173.9	82.5°	95.8	25.4	15.6	9.8	5.9	5.9	2.0	0.0	0.0	0.0
60.6	85°	27.4	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.5	87.5°	11.7	2.0	0.0	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>
3136.4
2864.7
2417.3
1862.3
1367.9
1178.3
1145.1
1111.9
1076.7
1043.5
1010.3
977.1
941.9
895.0
832.5
736.7
631.2
521.8
431.9
367.4
332.2
308.8
283.3
257.9
222.8
168.1
130.9
109.4
86.0
62.5
39.1
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