

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: P950309

Luminaire Tested: **GALN-SB4D-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950309
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-SB4D-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA 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: 33236 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

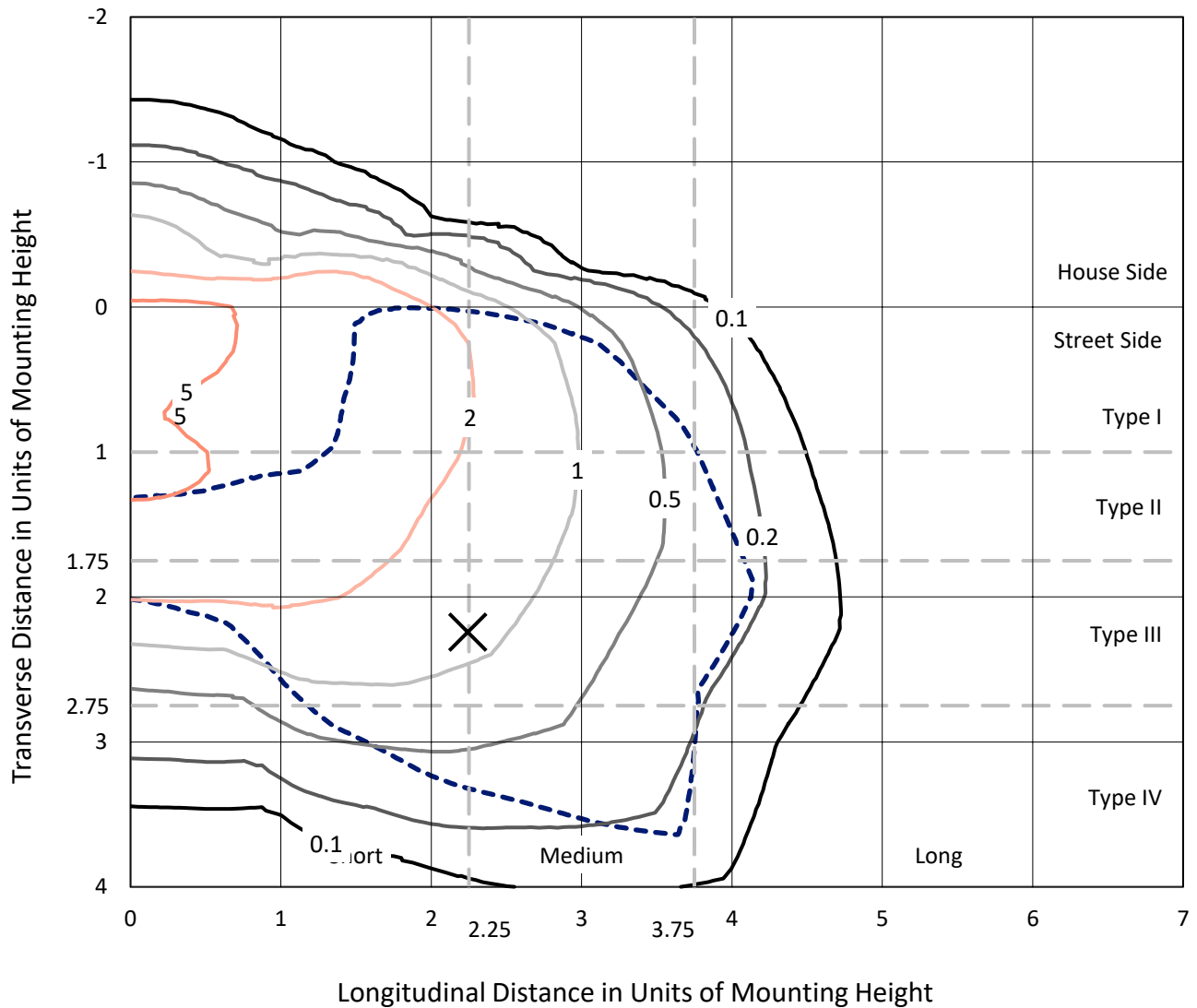
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

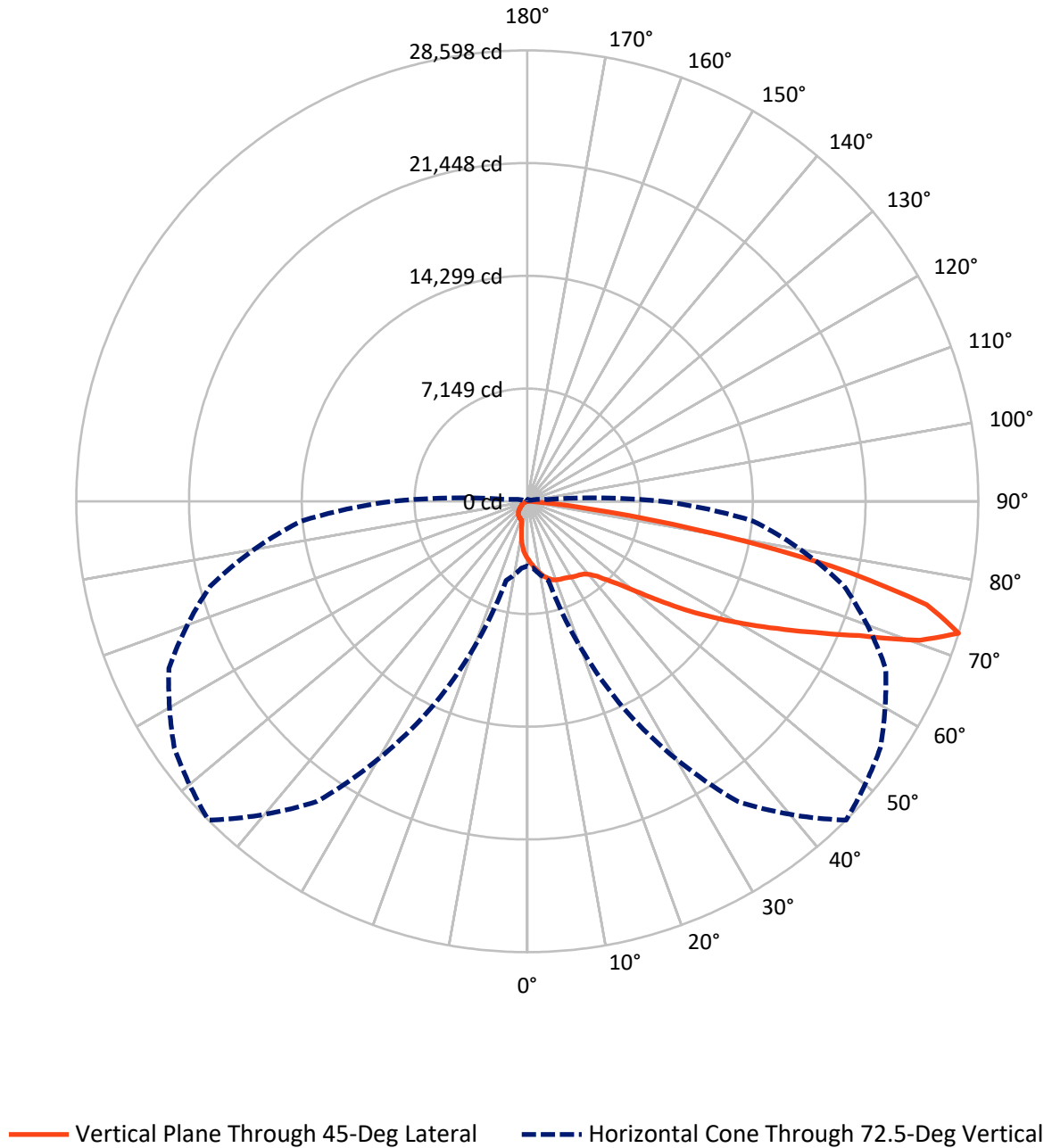
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3492.2	0.0	3492.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29743.8	0.0	29743.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	33236.0	0.0	33236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.0
10°-20°	1002.6	3.0
20°-30°	1646.5	5.0
30°-40°	2335.1	7.0
40°-50°	3859.6	11.6
50°-60°	6933.4	20.9
60°-70°	9627.4	29.0
70°-80°	6983.4	21.0
80°-90°	504.9	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°	33236.0	100.0
0°-180°	33236.0	100.0

Coefficient of Utilization



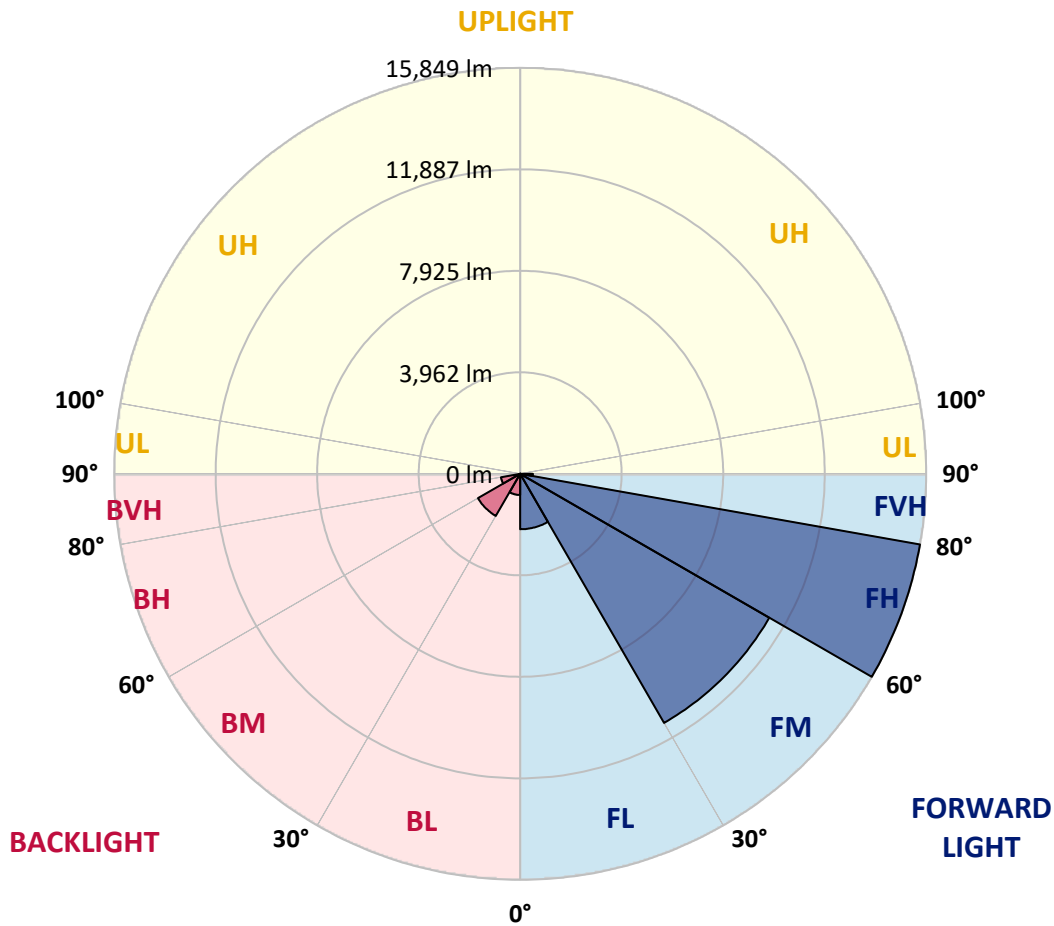
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.0	6.5			
FM (30°-60°)	11228.9	33.8			
FH (60°-80°)	15849.3	47.7			G5
FVH (80°-90°)	500.6	1.5			G4/750
BL (0°-30°)	827.2	2.5	B2/1000		
BM (30°-60°)	1899.2	5.7	B2/2500		
BH (60°-80°)	761.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1
2.5°	3976.8	3983.6	3979.1	3951.9	3906.5	3881.5	3867.9	3822.6	3793.1	3740.9
5°	4342.1	4369.3	4353.4	4299.0	4212.8	4151.5	4133.4	4040.3	3956.4	3858.9
7.5°	4730.0	4743.6	4714.1	4643.8	4528.1	4423.7	4407.9	4278.5	4144.7	3995.0
10°	5065.7	5081.6	5036.3	4934.2	4802.6	4673.3	4650.6	4507.7	4348.9	4165.1
12.5°	5347.0	5362.9	5303.9	5181.4	5036.3	4902.4	4879.7	4730.0	4555.3	4351.1
15°	5560.3	5589.8	5510.4	5378.8	5222.3	5088.4	5077.1	4929.6	4759.5	4532.6
17.5°	5685.1	5714.6	5639.7	5480.9	5347.0	5233.6	5220.0	5097.5	4938.7	4720.9
20°	5705.5	5732.7	5653.3	5514.9	5403.8	5313.0	5306.2	5217.7	5102.0	4893.3
22.5°	5644.2	5678.3	5605.7	5494.5	5417.4	5369.7	5360.7	5310.8	5245.0	5068.0
25°	5580.7	5607.9	5553.5	5455.9	5415.1	5410.6	5417.4	5408.3	5394.7	5245.0
27.5°	5576.2	5605.7	5544.4	5451.4	5428.7	5476.4	5483.2	5526.3	5537.6	5406.0
30°	5614.7	5635.2	5576.2	5478.6	5467.3	5576.2	5578.4	5655.6	5673.7	5542.1
32.5°	5698.7	5721.4	5662.4	5519.5	5503.6	5655.6	5662.4	5764.5	5794.0	5687.3
35°	5896.0	5923.3	5855.2	5632.9	5576.2	5730.4	5750.9	5871.1	5930.1	5841.6
37.5°	6388.3	6308.9	6215.9	5862.0	5741.8	5848.4	5882.4	6023.1	6127.4	6025.4
40°	7611.1	7361.5	7071.2	6252.2	6032.2	6100.2	6127.4	6268.1	6411.0	6311.2
42.5°	9446.4	9151.5	8684.1	7150.6	6470.0	6504.0	6524.4	6646.9	6848.8	6769.4
45°	11082.0	10975.4	10499.0	8684.1	7289.0	7121.1	7146.0	7209.6	7506.7	7477.2
47.5°	12338.8	12277.6	11910.1	10444.6	8672.8	7876.5	7946.8	7976.3	8405.1	8509.5
50°	13305.2	13282.5	12953.6	12009.9	10480.8	8990.4	9015.3	8951.8	9593.8	9852.5
52.5°	14217.2	14294.3	14051.6	13464.0	12411.4	10449.1	10444.6	10145.1	11011.7	11401.9
55°	15040.7	15067.9	15092.9	14947.7	14353.3	12109.7	12066.6	11576.6	12656.4	13060.2
57.5°	15814.3	15825.6	16048.0	16345.1	16374.6	13892.8	13813.4	13225.8	14453.1	14741.2
60°	16333.8	16386.0	16855.6	17681.3	18042.0	15732.6	15689.5	15090.6	16281.6	16415.5
62.5°	15585.2	15902.8	17087.0	18724.9	19616.4	17772.1	17751.7	17189.0	18205.4	18096.5
65°	12615.6	13153.2	15235.8	19430.4	21161.3	20049.7	20079.2	19480.3	20181.3	19827.4
67.5°	8824.8	9391.9	11855.6	19487.1	22887.7	22724.4	22894.5	21955.3	22279.7	21485.7
70°	6102.5	6395.1	7999.0	18266.6	24233.0	26408.6	26404.0	24995.2	24366.8	22241.2
72.5°	4103.9	4255.9	5195.1	14491.7	23243.9	28597.7	28466.2	27318.3	25070.1	20800.6
75°	1730.9	1842.1	2404.7	8144.2	18389.1	26163.6	25807.4	24142.3	22275.2	16379.2
77.5°	549.0	596.6	948.3	2915.1	10129.2	19666.3	19289.8	15077.0	14929.5	8216.8
80°	260.9	304.0	533.1	1170.6	3985.9	10696.4	10644.2	6839.8	6422.4	2218.7
82.5°	113.4	133.8	294.9	626.1	1783.1	3815.8	3892.9	2327.6	1926.0	841.6
85°	36.3	47.6	136.1	288.1	753.2	948.3	936.9	553.5	775.9	458.3
87.5°	0.0	0.0	45.4	65.8	77.1	54.4	61.3	47.6	215.5	127.0
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°
3641.1	0°	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1	3641.1
3686.4	2.5°	3659.2	3622.9	3559.4	3500.4	3448.2	3396.1	3364.3	3318.9	3314.4	3314.4
3745.4	5°	3684.2	3625.2	3511.8	3391.5	3253.1	3121.6	2990.0	2863.0	2822.1	2792.6
3840.7	7.5°	3756.8	3663.8	3484.5	3255.4	2992.3	2704.2	2502.2	2284.5	2200.5	2155.2
3967.8	10°	3861.1	3734.1	3461.9	3060.3	2633.8	2241.4	1953.2	1717.3	1626.6	1588.0
4106.1	12.5°	3976.8	3820.3	3421.0	2817.6	2241.4	1771.8	1490.5	1381.6	1368.0	1368.0
4271.7	15°	4115.2	3924.6	3350.7	2531.7	1830.7	1402.0	1302.2	1306.7	1320.3	1329.4
4432.8	17.5°	4258.1	4035.8	3239.5	2211.9	1467.8	1261.3	1263.6	1270.4	1281.7	1290.8
4607.5	20°	4412.4	4147.0	3092.1	1871.6	1259.1	1220.5	1227.3	1234.1	1243.2	1247.7
4770.8	22.5°	4578.0	4251.3	2917.4	1538.1	1188.7	1186.5	1188.7	1195.5	1206.9	1206.9
4961.4	25°	4754.9	4367.0	2717.8	1295.4	1152.4	1152.4	1157.0	1161.5	1170.6	1170.6
5145.1	27.5°	4936.4	4473.6	2506.8	1168.3	1120.7	1118.4	1118.4	1125.2	1129.8	1132.0
5326.6	30°	5136.1	4598.4	2295.8	1141.1	1095.7	1084.4	1077.6	1082.1	1086.7	1088.9
5517.2	32.5°	5340.2	4718.7	2107.5	1152.4	1070.8	1050.4	1027.7	1023.1	1023.1	1032.2
5714.6	35°	5567.1	4850.2	1962.3	1191.0	1057.2	1000.4	964.1	943.7	946.0	959.6
5950.5	37.5°	5839.3	5009.0	1855.7	1225.0	1048.1	943.7	884.7	859.8	843.9	859.8
6274.9	40°	6195.5	5242.7	1778.6	1252.3	1036.7	877.9	798.5	757.7	728.2	737.3
6778.5	42.5°	6719.5	5610.2	1749.1	1254.5	1011.8	800.8	710.1	655.6	612.5	614.8
7536.2	45°	7454.6	6191.0	1901.1	1225.0	957.3	716.9	617.1	544.5	517.2	510.4
8668.3	47.5°	8461.8	7037.1	2252.7	1163.8	877.9	635.2	526.3	465.1	444.6	433.3
10154.2	50°	9811.6	8123.8	2642.9	1095.7	798.5	558.1	451.4	412.9	399.3	387.9
11916.9	52.5°	11376.9	9226.3	2962.8	1027.7	719.1	490.0	403.8	381.1	369.8	360.7
13618.3	55°	12813.0	9986.3	2944.6	955.1	642.0	435.6	369.8	356.2	342.6	333.5
15083.8	57.5°	13706.8	10092.9	2427.4	875.7	553.5	392.5	338.0	328.9	313.1	301.7
16351.9	60°	14117.4	9484.9	1701.4	771.3	465.1	351.6	304.0	299.5	279.0	263.2
17552.0	62.5°	14192.3	8355.2	1134.3	642.0	387.9	313.1	270.0	263.2	235.9	208.7
18527.5	65°	13888.3	6740.0	784.9	501.4	331.2	272.2	231.4	217.8	188.3	161.1
18758.9	67.5°	12926.4	4732.3	546.7	360.7	281.3	215.5	183.8	179.2	156.5	133.8
17579.2	70°	11163.7	2697.3	365.2	270.0	222.3	147.5	145.2	149.7	127.0	108.9
14362.4	72.5°	8559.4	1234.1	226.9	197.4	152.0	99.8	115.7	118.0	97.5	81.7
8960.9	75°	5038.5	528.6	142.9	127.0	77.1	65.8	83.9	86.2	65.8	52.2
3275.8	77.5°	1715.0	199.6	90.7	74.9	38.6	36.3	54.4	54.4	36.3	20.4
657.9	80°	390.2	74.9	45.4	29.5	18.1	15.9	18.1	15.9	9.1	2.3
201.9	82.5°	111.2	29.5	18.1	11.3	6.8	6.8	2.3	0.0	0.0	0.0
70.3	85°	31.8	13.6	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
25.0	87.5°	13.6	2.3	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>
3641.1
3325.7
2806.2
2162.0
1588.0
1368.0
1329.4
1290.8
1250.0
1211.4
1172.9
1134.3
1093.5
1039.0
966.4
855.3
732.8
605.7
501.4
426.5
385.7
358.4
328.9
299.5
258.6
195.1
152.0
127.0
99.8
72.6
45.4
15.9
0.0
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