

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: P954464

Luminaire Tested: **GALN-SB7C-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37547 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

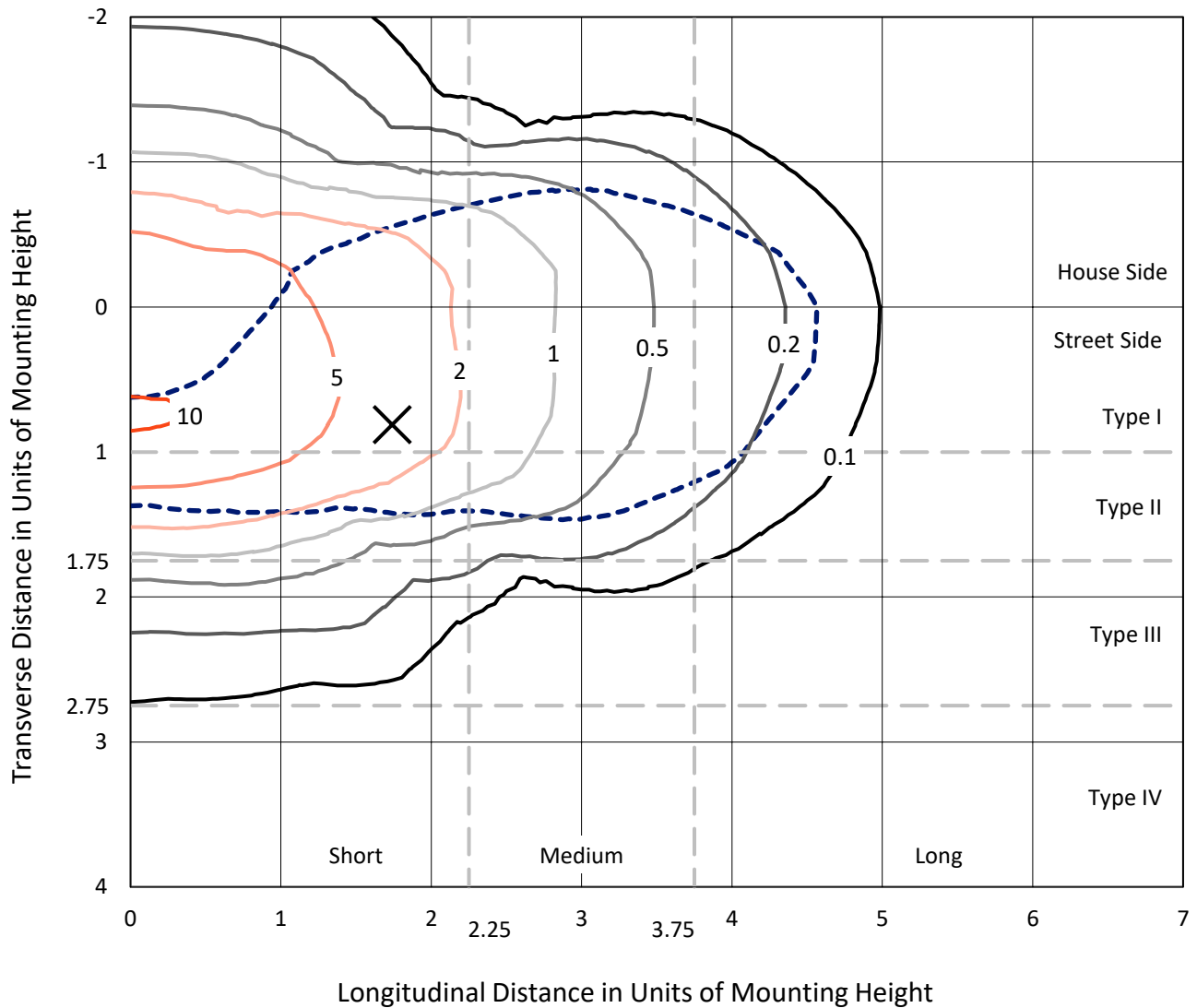
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

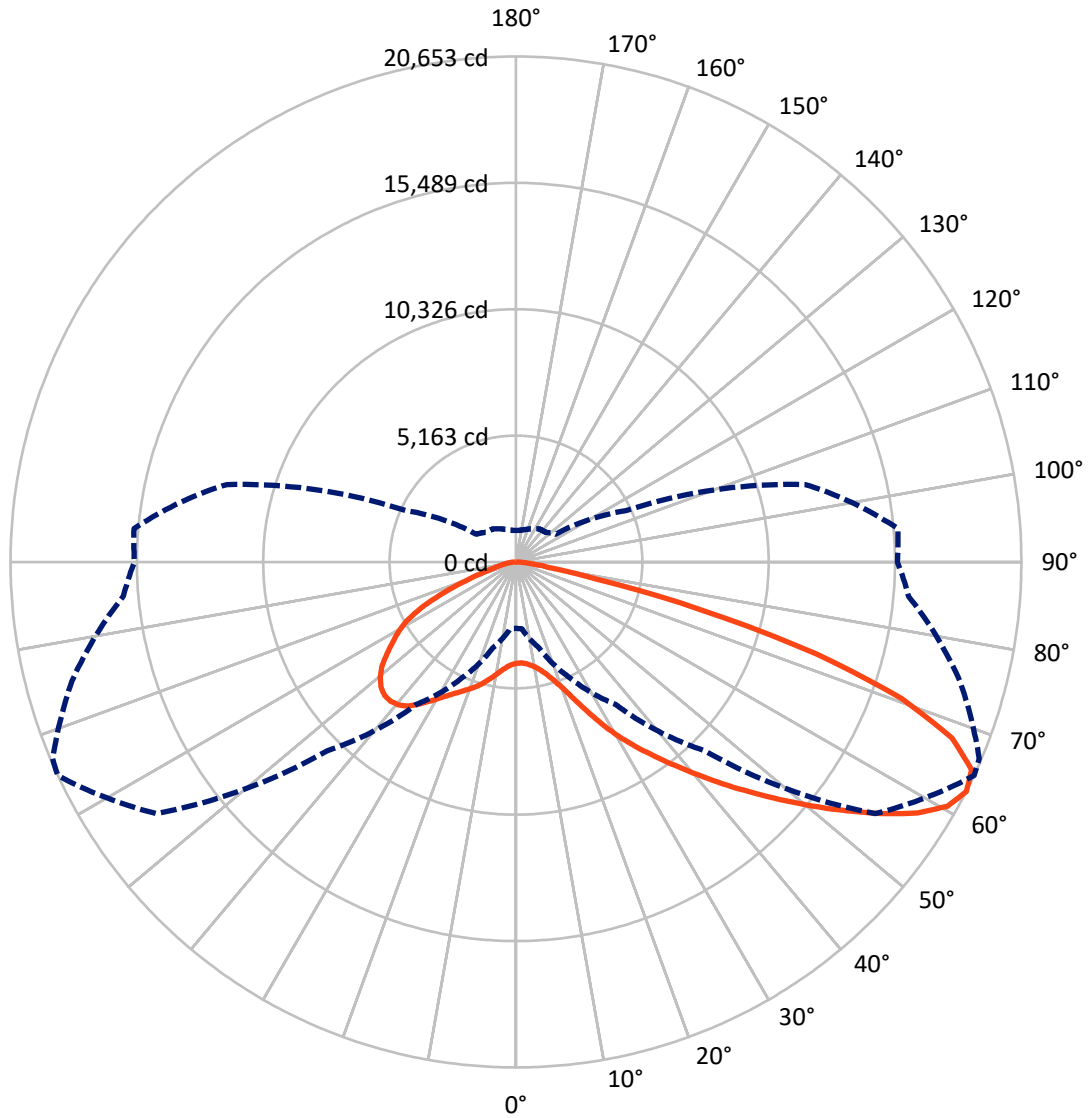
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11848.2	0.0	11848.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25698.8	0.0	25698.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	37547.0	0.0	37547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.1
10°-20°	1398.8	3.7
20°-30°	2836.3	7.6
30°-40°	4908.2	13.1
40°-50°	7427.6	19.8
50°-60°	8708.4	23.2
60°-70°	7300.9	19.4
70°-80°	4030.7	10.7
80°-90°	523.6	1.4
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°	37547.0	100.0
0°-180°	37547.0	100.0

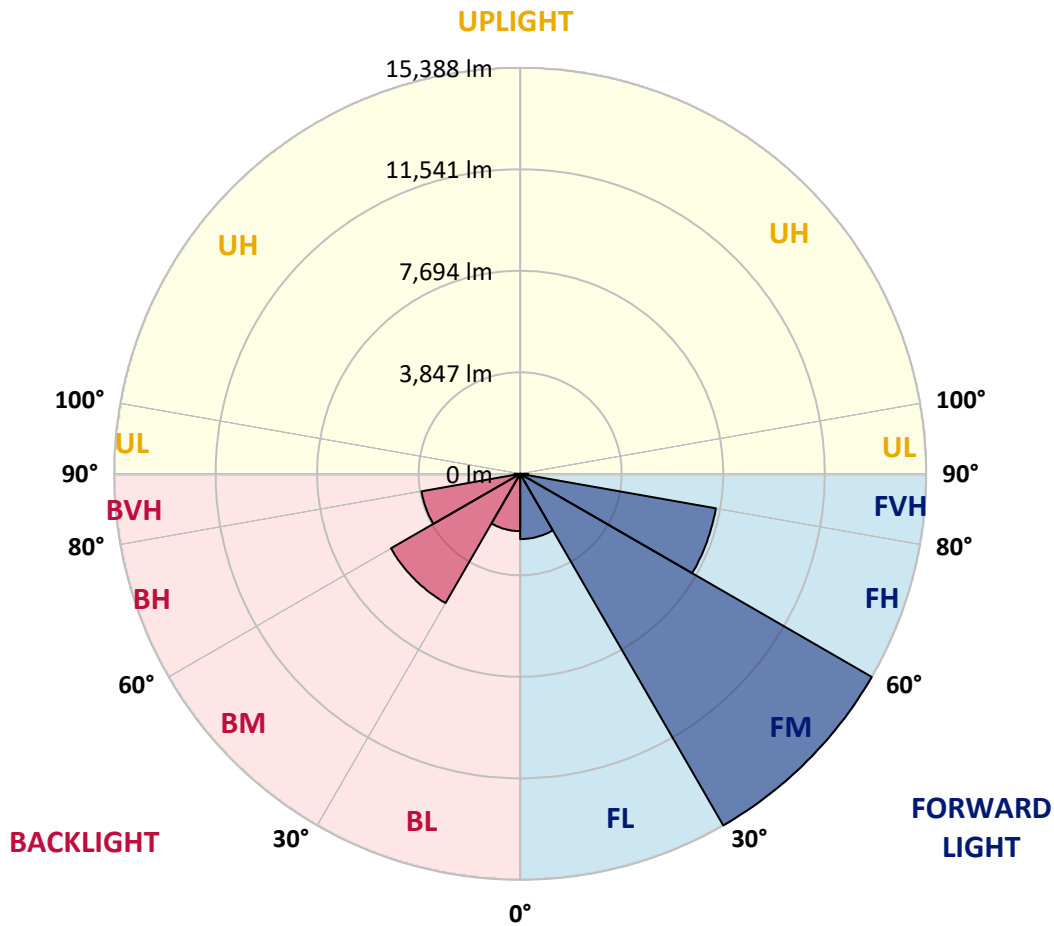


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.8	6.6			
FM (30°-60°)	15388.0	41.0			
FH (60°-80°)	7530.8	20.1			G4/12000
FVH (80°-90°)	305.1	0.8			G3/500
BL (0°-30°)	2172.8	5.8	B3/2500		
BM (30°-60°)	5656.2	15.1	B4/8500		
BH (60°-80°)	3800.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	218.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5
2.5°	4110.2	4098.6	4108.3	4108.3	4112.2	4110.2	4123.9	4127.8	4133.6	4145.3
5°	4069.3	4067.4	4084.9	4100.5	4116.1	4129.7	4147.3	4172.6	4176.5	4190.1
7.5°	4055.7	4044.0	4071.3	4090.8	4127.8	4160.9	4207.6	4250.5	4268.0	4273.9
10°	4160.9	4141.4	4166.7	4178.4	4209.6	4242.7	4297.3	4365.4	4384.9	4408.3
12.5°	4340.1	4318.7	4355.7	4373.2	4402.4	4431.7	4468.7	4534.9	4544.6	4587.5
15°	4585.6	4560.2	4583.6	4605.0	4653.7	4681.0	4718.0	4782.3	4782.3	4815.4
17.5°	4918.7	4885.5	4903.1	4910.9	4942.0	4982.9	5045.3	5101.8	5131.0	5119.3
20°	5415.4	5374.5	5374.5	5335.5	5323.8	5357.0	5438.8	5516.7	5547.9	5487.5
22.5°	6161.5	6103.0	6069.9	5937.5	5884.9	5888.8	5970.6	6066.0	6091.3	5984.2
25°	7110.1	7018.6	6973.8	6779.0	6660.2	6556.9	6621.2	6743.9	6779.0	6646.5
27.5°	8058.8	8064.7	8021.8	7788.0	7591.3	7402.3	7369.2	7497.8	7534.8	7384.8
30°	9389.3	9251.0	9169.2	8888.6	8608.1	8343.2	8206.9	8259.4	8269.2	8090.0
32.5°	10536.6	10501.6	10326.3	10080.8	9720.4	9305.5	9077.6	8993.8	8978.3	8723.1
35°	11843.7	11824.3	11639.2	11347.0	10957.4	10380.8	9969.8	9730.2	9710.7	9352.3
37.5°	13172.3	13172.3	12991.1	12671.6	12268.4	11547.6	10922.3	10542.5	10480.2	10012.6
40°	14232.0	14167.7	14200.8	14066.4	13604.7	12839.2	11980.1	11428.8	11345.1	10784.0
42.5°	14833.9	14812.5	15011.2	15161.2	14972.2	14360.5	13145.0	12389.2	12272.3	11633.4
45°	14968.3	14944.9	15299.5	15848.8	16113.7	15862.4	14411.2	13400.2	13258.0	12521.6
47.5°	14658.6	14611.8	15131.9	15998.8	16848.1	17290.3	15782.6	14496.9	14290.4	13386.5
50°	13727.4	13682.6	14469.6	15620.9	17095.5	18260.4	17270.8	15659.8	15344.3	14313.8
52.5°	11703.5	11724.9	12958.0	14539.7	16770.2	18864.3	18552.6	16885.1	16505.3	15262.4
55°	9116.6	9163.3	10678.8	12420.3	15468.9	18772.7	19427.2	18147.4	17769.5	16154.6
57.5°	6527.7	6734.2	8154.3	9878.2	12969.7	17321.5	19618.1	19347.4	18981.1	17128.6
60°	4231.0	4268.0	5729.0	7466.6	9876.3	14742.3	19230.5	20257.1	19970.7	18122.1
62.5°	2711.6	2736.9	3627.1	5222.5	7108.2	10906.8	17925.3	20652.5	20564.9	18778.6
65°	1992.8	1973.3	2436.9	3451.8	4788.1	6726.4	15391.0	20461.6	20635.0	19189.6
67.5°	1663.6	1636.3	1864.2	2390.2	3527.8	3820.0	11387.9	19220.8	19855.8	19142.8
70°	1515.5	1492.2	1630.5	1774.6	2752.5	2557.7	5740.7	16709.8	17687.7	18611.0
72.5°	1283.7	1242.8	1431.8	1575.9	2140.8	1961.6	2372.6	12835.3	14027.4	16906.5
75°	995.4	968.1	1129.8	1387.0	1609.0	1531.1	1499.9	7793.9	9095.1	13074.9
77.5°	788.9	751.9	900.0	1081.1	1447.4	1155.2	1092.8	3356.4	4645.9	8347.1
80°	594.1	561.0	683.7	855.2	1112.3	870.7	707.1	1369.4	1751.2	4229.1
82.5°	422.7	393.5	477.3	627.3	748.0	781.1	434.4	767.5	863.0	1630.5
85°	270.8	253.2	319.5	393.5	475.3	502.6	264.9	401.3	440.2	672.1
87.5°	148.0	120.8	171.4	183.1	220.1	200.6	126.6	146.1	157.8	243.5
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°
4137.5	0°	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5
4145.3	2.5°	4153.1	4158.9	4178.4	4184.3	4197.9	4215.4	4227.1	4238.8	4238.8	4250.5
4207.6	5°	4209.6	4223.2	4264.1	4285.6	4320.6	4355.7	4377.1	4402.4	4418.0	4425.8
4307.0	7.5°	4318.7	4340.1	4398.5	4435.6	4495.9	4544.6	4577.8	4612.8	4620.6	4642.0
4445.3	10°	4466.7	4492.0	4558.3	4628.4	4700.5	4760.9	4792.0	4817.4	4827.1	4831.0
4622.6	12.5°	4636.2	4673.2	4758.9	4844.6	4920.6	4973.2	4981.0	4975.1	4947.9	4924.5
4840.7	15°	4844.6	4877.8	4973.2	5066.7	5140.7	5150.5	5101.8	5070.6	5037.5	5031.6
5084.2	17.5°	5094.0	5111.5	5199.2	5290.7	5296.6	5263.5	5191.4	5162.2	5131.0	5109.6
5401.8	20°	5384.2	5378.4	5440.7	5479.7	5438.8	5337.5	5228.4	5179.7	5148.5	5123.2
5791.4	22.5°	5731.0	5686.2	5678.4	5668.6	5559.5	5347.2	5199.2	5136.8	5088.1	5053.1
6334.8	25°	6235.5	6064.1	5945.2	5879.0	5633.6	5294.6	5105.7	4967.4	4875.8	4815.4
6999.1	27.5°	6866.6	6578.3	6278.4	6116.7	5633.6	5187.5	4879.7	4655.7	4505.7	4443.3
7641.9	30°	7468.6	7166.6	6724.4	6403.0	5619.9	5012.2	4515.4	4203.7	4028.4	3966.1
8191.3	32.5°	7982.8	7653.6	7197.8	6716.6	5586.8	4727.8	4063.5	3718.7	3549.2	3475.2
8734.8	35°	8460.1	8109.5	7673.1	7061.4	5499.2	4310.9	3566.8	3303.8	3114.8	2996.0
9288.0	37.5°	8949.0	8532.2	8123.1	7373.1	5341.4	3823.9	3185.0	2960.9	2738.9	2579.1
9876.3	40°	9480.8	8982.2	8604.2	7558.2	5082.3	3360.3	2888.9	2684.3	2448.6	2279.1
10554.2	42.5°	10102.2	9521.7	9139.9	7653.6	4727.8	3031.1	2696.0	2495.4	2273.3	2135.0
11280.8	45°	10750.9	10115.9	9628.9	7651.7	4332.3	2877.2	2633.7	2435.0	2189.5	2045.4
12026.8	47.5°	11430.8	10737.3	10051.6	7527.0	3989.5	2898.6	2598.6	2304.5	2033.7	1893.4
12780.7	50°	12112.6	11417.1	10460.7	7293.2	3843.4	2851.8	2468.1	2121.4	1801.9	1675.3
13487.8	52.5°	12788.5	12139.8	10813.3	6960.1	3695.3	2678.5	2300.6	1883.7	1706.4	1618.8
14218.3	55°	13468.4	12854.7	11197.0	6475.1	3325.2	2475.9	2020.1	1794.1	1630.5	1550.6
14933.2	57.5°	14150.2	13680.7	11561.3	5990.0	2859.6	2226.5	1866.2	1685.0	1554.5	1486.3
15531.3	60°	14859.2	14625.5	11937.2	5544.0	2399.9	1907.1	1753.2	1597.3	1464.9	1388.9
16105.9	62.5°	15589.7	15665.7	12231.4	4969.3	1977.2	1712.3	1651.9	1492.2	1363.6	1291.5
16581.2	65°	16326.0	16668.9	12424.2	4172.6	1603.2	1527.2	1542.8	1377.2	1246.7	1184.4
16929.9	67.5°	16881.2	17391.6	12369.7	3157.7	1314.9	1351.9	1406.4	1256.4	1133.7	1085.0
16873.4	70°	16943.6	17305.9	11832.1	2162.3	1100.6	1180.5	1254.5	1137.6	1011.0	975.9
16078.7	72.5°	16113.7	16137.1	10334.1	1412.3	931.1	1036.3	1094.8	1016.8	894.1	859.1
14066.4	75°	13937.8	13345.6	7587.4	931.1	779.2	890.2	944.8	890.2	771.4	779.2
10525.0	77.5°	10560.0	9451.6	4607.0	662.3	650.6	748.0	822.0	783.1	681.8	765.6
5292.7	80°	5440.7	5113.5	2055.1	494.8	514.3	598.0	676.0	625.3	539.6	514.3
1182.4	82.5°	1246.7	1449.3	810.4	354.5	372.1	430.5	516.2	469.5	387.6	327.3
492.8	85°	436.3	477.3	358.4	222.1	218.2	268.8	350.6	313.6	263.0	210.4
208.4	87.5°	138.3	181.2	134.4	89.6	93.5	120.8	161.7	148.0	122.7	79.9
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>
4137.5
4250.5
4429.7
4634.3
4821.3
4924.5
5031.6
5111.5
5125.1
5064.8
4838.8
4474.5
4003.1
3512.2
3035.0
2622.0
2312.3
2162.3
2068.8
1912.9
1683.1
1618.8
1542.8
1474.6
1383.1
1289.6
1182.4
1087.0
977.9
857.1
751.9
674.0
469.5
323.4
222.1
83.8
0.0

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