

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: P951948

Luminaire Tested: **GALN-SB5D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37176 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

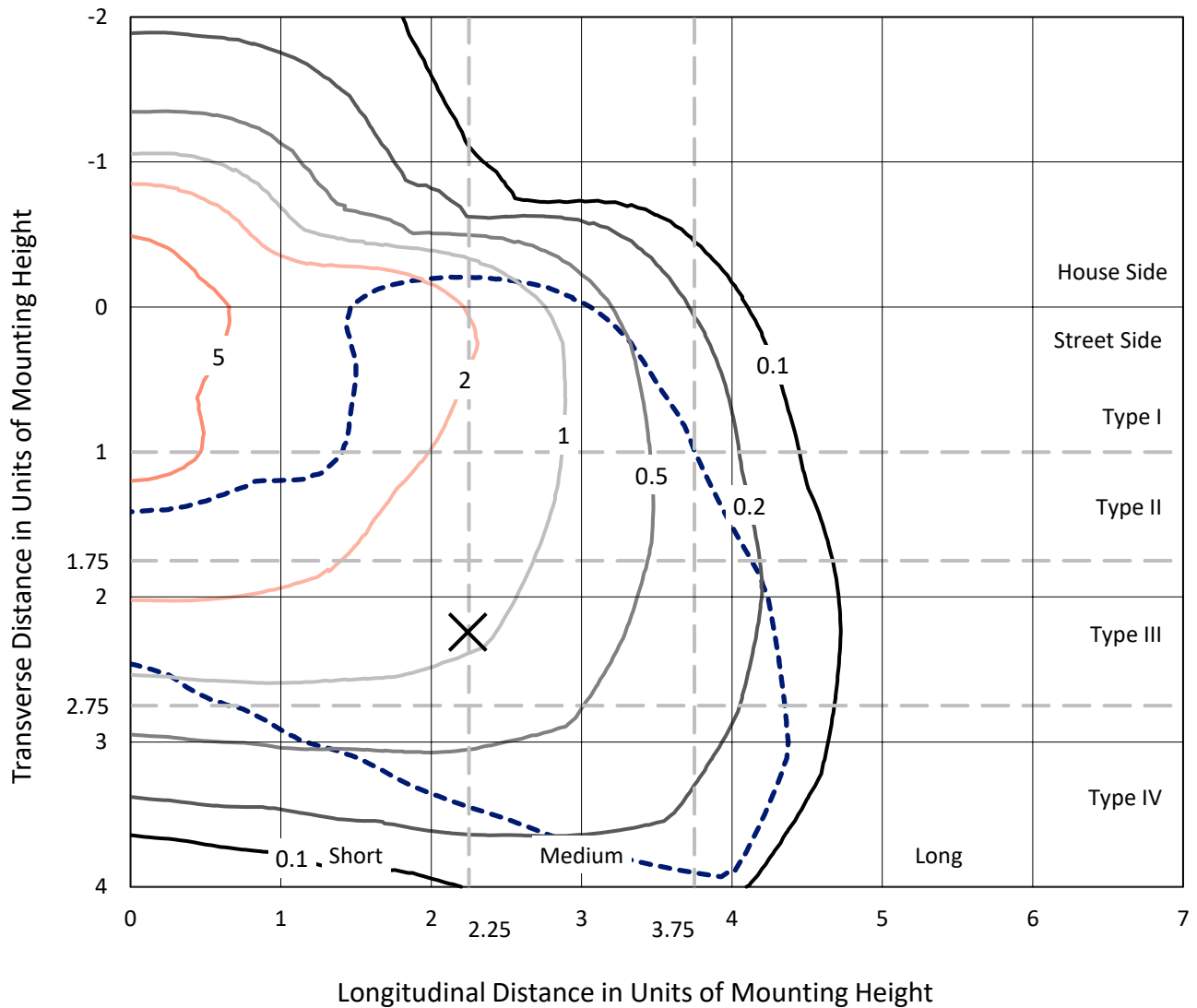
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

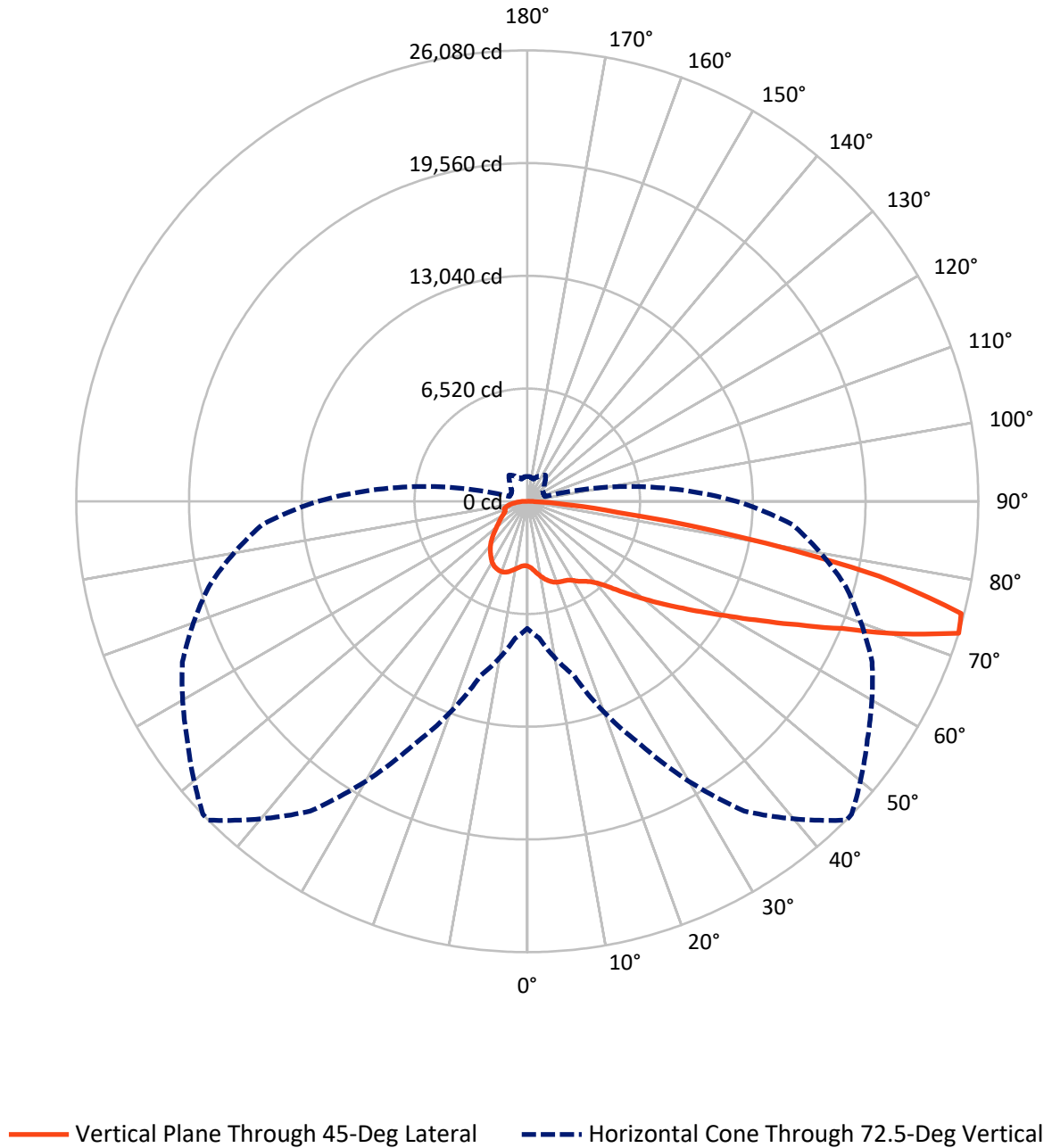
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	8404.2	0.0	8404.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28771.8	0.0	28771.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	37176.0	0.0	37176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	1.0
10°-20°	1272.7	3.4
20°-30°	2213.9	6.0
30°-40°	3173.7	8.5
40°-50°	4468.8	12.0
50°-60°	6844.9	18.4
60°-70°	9915.8	26.7
70°-80°	7918.4	21.3
80°-90°	986.2	2.7
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°	37176.0	100.0
0°-180°	37176.0	100.0

Coefficient of Utilization



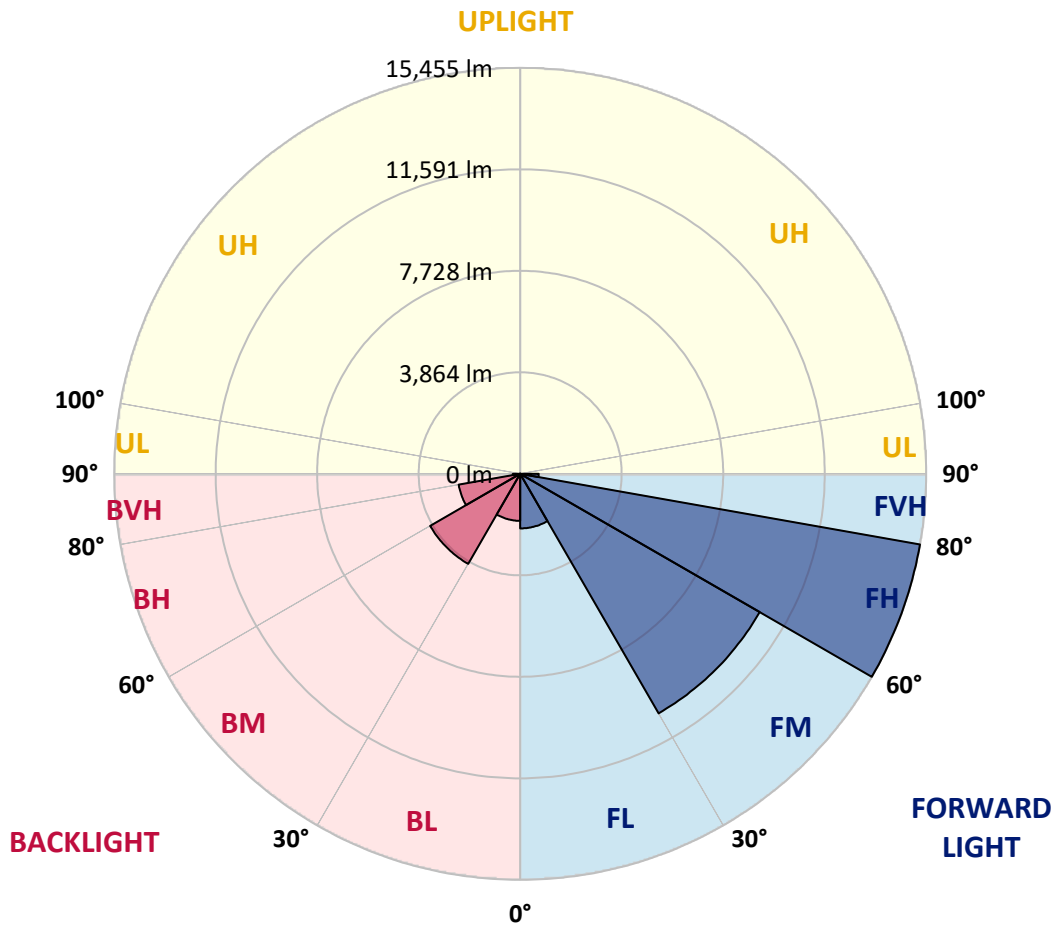
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.9	5.6			
FM (30°-60°)	10530.2	28.3			
FH (60°-80°)	15455.2	41.6			G5
FVH (80°-90°)	707.5	1.9			G4/750
BL (0°-30°)	1789.3	4.8	B3/2500		
BM (30°-60°)	3957.2	10.6	B3/5000		
BH (60°-80°)	2379.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	278.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
2.5°	3897.2	3922.7	3899.2	3877.6	3867.8	3842.4	3840.4	3824.8	3815.0	3787.5
5°	4169.4	4202.7	4163.6	4120.5	4081.3	4018.6	4010.8	3965.8	3914.8	3856.1
7.5°	4476.9	4506.3	4461.2	4396.6	4328.1	4224.3	4222.3	4140.1	4059.8	3959.9
10°	4745.2	4784.4	4723.7	4635.5	4549.4	4431.9	4418.1	4324.1	4222.3	4093.1
12.5°	4982.2	5009.6	4950.8	4843.1	4743.2	4625.7	4608.1	4504.3	4390.7	4243.9
15°	5170.2	5205.4	5127.1	5011.5	4905.8	4790.2	4774.6	4680.6	4567.0	4412.3
17.5°	5293.6	5322.9	5242.6	5113.4	5011.5	4915.6	4903.8	4825.5	4725.6	4568.9
20°	5340.6	5371.9	5287.7	5156.5	5062.5	4988.0	4982.2	4925.4	4856.8	4713.9
22.5°	5387.6	5416.9	5307.3	5170.2	5087.9	5040.9	5039.0	5001.8	4974.3	4856.8
25°	5577.5	5585.4	5438.5	5240.7	5123.2	5082.0	5080.1	5078.1	5089.9	4997.8
27.5°	5742.0	5740.1	5614.7	5428.7	5246.6	5160.4	5158.4	5178.0	5215.2	5138.8
30°	5982.9	5961.4	5812.5	5618.6	5452.2	5319.0	5307.3	5289.6	5319.0	5258.3
32.5°	6494.1	6425.5	6184.6	5839.9	5622.6	5520.7	5505.1	5395.4	5407.1	5369.9
35°	7226.5	7136.4	6815.2	6259.0	5834.1	5689.2	5681.3	5542.3	5518.8	5485.5
37.5°	8098.0	7986.4	7612.3	6866.1	6198.3	5885.0	5873.2	5747.9	5651.9	5616.7
40°	8973.4	8832.4	8523.0	7606.4	6734.9	6212.0	6174.8	5984.9	5875.2	5816.4
42.5°	9823.3	9705.8	9441.4	8436.8	7396.9	6689.9	6607.6	6282.5	6200.3	6145.5
45°	10575.4	10469.6	10275.7	9323.9	8172.4	7340.1	7259.8	6729.1	6703.6	6703.6
47.5°	11186.4	11162.9	10957.2	10228.7	9087.0	8080.4	7941.3	7349.9	7418.4	7524.2
50°	11864.0	11799.4	11580.0	11119.8	10162.1	8928.3	8814.8	8111.7	8368.2	8658.1
52.5°	12486.8	12522.0	12277.2	12048.1	11376.3	9874.2	9674.5	9010.6	9564.8	10044.6
55°	13127.2	13129.1	13060.6	13029.2	12649.3	10920.0	10700.7	10091.6	10972.9	11568.3
57.5°	13728.4	13732.3	13834.1	14110.3	14125.9	12126.4	11877.7	11419.4	12537.7	13144.8
60°	14265.0	14292.4	14570.5	15216.8	15424.4	13509.0	13274.0	12988.1	14155.3	14766.3
62.5°	14445.2	14545.0	15163.9	16082.4	16707.1	15205.0	14973.9	14803.5	15855.2	16423.1
65°	14139.6	14368.8	15565.4	16797.2	18027.1	17220.2	16991.1	16805.0	17621.7	18156.3
67.5°	13389.6	13685.3	15541.9	17547.3	19629.0	19644.7	19431.2	18994.5	19515.4	19721.1
70°	11413.6	11856.1	14172.9	17827.3	21468.0	22960.3	22754.6	21630.5	21405.3	20410.4
72.5°	7353.8	7949.1	10436.3	15522.3	21877.3	26080.0	26068.3	24010.0	22002.6	19070.9
75°	2683.0	3047.3	4849.0	9743.0	18363.9	25921.4	25997.8	23602.6	20085.3	14731.1
77.5°	977.2	1069.3	1582.4	3744.5	11294.1	20798.2	20956.8	18869.2	14296.3	7393.0
80°	513.1	564.0	810.8	1453.1	4839.2	12351.6	12600.3	11213.8	6719.3	2226.7
82.5°	284.0	307.5	454.3	789.2	2179.7	5281.8	5430.6	4429.9	2363.8	943.9
85°	152.8	162.5	213.5	430.8	1065.4	1831.1	1872.2	1323.9	942.0	554.2
87.5°	45.0	54.8	70.5	137.1	417.1	411.3	421.1	262.4	372.1	280.1
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°
3750.3	0°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
3779.7	2.5°	3768.0	3762.1	3740.5	3730.8	3719.0	3717.0	3726.8	3728.8	3730.8	3732.7
3822.8	5°	3803.2	3783.6	3764.0	3752.3	3756.2	3758.2	3777.8	3791.5	3801.3	3809.1
3903.1	7.5°	3871.8	3856.1	3822.8	3820.8	3826.7	3844.3	3869.8	3901.1	3918.8	3932.5
4006.9	10°	3973.6	3944.2	3905.0	3910.9	3922.7	3948.1	4001.0	4026.5	4055.8	4081.3
4134.2	12.5°	4077.4	4051.9	4006.9	4010.8	4030.4	4075.4	4126.3	4157.7	4177.3	4196.8
4271.3	15°	4212.5	4167.5	4118.5	4118.5	4153.8	4202.7	4226.2	4251.7	4263.4	4285.0
4418.1	17.5°	4351.6	4292.8	4228.2	4224.3	4267.4	4290.9	4304.6	4308.5	4312.4	4335.9
4561.1	20°	4490.6	4426.0	4333.9	4326.1	4335.9	4332.0	4330.0	4326.1	4332.0	4361.4
4708.0	22.5°	4627.7	4553.3	4426.0	4390.7	4363.3	4326.1	4324.1	4322.2	4326.1	4355.5
4866.6	25°	4788.3	4698.2	4527.8	4422.1	4330.0	4279.1	4285.0	4286.9	4290.9	4314.4
5031.1	27.5°	4962.6	4862.7	4621.8	4412.3	4245.8	4210.6	4200.8	4206.6	4220.4	4257.6
5195.6	30°	5136.9	5019.4	4708.0	4373.1	4140.1	4091.1	4059.8	4073.5	4116.6	4153.8
5338.6	32.5°	5295.5	5178.0	4776.5	4286.9	4004.9	3928.5	3887.4	3905.0	3948.1	3961.8
5497.2	35°	5481.6	5348.4	4805.9	4149.8	3858.0	3740.5	3685.7	3660.2	3681.8	3668.1
5683.3	37.5°	5689.2	5550.1	4802.0	3969.7	3685.7	3550.6	3474.2	3378.2	3333.2	3286.2
5957.5	40°	5996.6	5796.9	4755.0	3752.3	3472.2	3348.9	3211.8	3049.2	2947.4	2855.3
6400.0	42.5°	6415.7	6139.6	4668.8	3513.4	3231.4	3115.8	2929.8	2739.8	2579.2	2426.5
7071.8	45°	7040.4	6588.1	4561.1	3258.8	2970.9	2857.3	2655.6	2442.1	2260.0	2064.2
8025.5	47.5°	7941.3	7191.2	4459.3	2968.9	2696.7	2592.9	2410.8	2213.0	1997.6	1807.6
9404.2	50°	9179.0	8056.9	4365.3	2686.9	2426.5	2348.1	2203.2	2001.5	1784.1	1631.3
11019.9	52.5°	10753.6	9233.9	4326.1	2414.7	2173.8	2144.4	2028.9	1840.9	1635.3	1506.0
12903.9	55°	12561.2	10641.9	4326.1	2154.2	1952.5	1962.3	1882.0	1707.7	1529.5	1414.0
14846.6	57.5°	14406.0	12067.7	4247.8	1913.4	1764.5	1805.6	1754.7	1602.0	1441.4	1321.9
16889.2	60°	16105.9	13262.3	3930.5	1694.0	1598.1	1662.7	1629.4	1498.2	1302.3	1202.5
18597.0	62.5°	17412.1	13936.0	3319.5	1519.7	1461.0	1535.4	1517.8	1361.1	1276.9	1235.8
19999.2	65°	18066.2	13826.3	2538.1	1365.0	1345.4	1461.0	1423.8	1417.9	1351.3	1304.3
20455.5	67.5°	17664.8	12882.4	1840.9	1251.4	1278.8	1392.4	1535.4	1558.9	1435.5	1343.5
19170.8	70°	15904.2	11174.6	1370.9	1143.7	1194.6	1394.4	1750.8	1631.3	1408.1	1300.4
15375.4	72.5°	12099.0	8333.0	1063.4	1030.1	1085.0	1404.2	1846.8	1598.1	1329.8	1437.5
9578.5	75°	6919.0	4574.8	853.9	891.1	947.9	1312.1	1797.8	1511.9	1269.0	1320.0
3795.4	77.5°	2638.0	1758.6	705.0	754.0	761.8	1145.7	1719.5	1506.0	1208.3	1179.0
1137.8	80°	914.6	687.4	583.6	599.3	589.5	1018.4	1649.0	1310.2	989.0	885.2
470.0	82.5°	374.1	342.7	462.2	442.6	419.1	791.2	1331.7	1071.2	808.8	714.8
227.2	85°	162.5	217.4	305.5	268.3	242.8	548.4	1067.3	906.7	683.5	589.5
74.4	87.5°	33.3	82.3	129.3	121.4	125.3	366.2	757.9	644.3	483.7	362.3
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>
3750.3
3740.5
3813.0
3936.4
4075.4
4204.7
4292.8
4343.7
4373.1
4375.1
4345.7
4294.8
4194.9
4010.8
3711.2
3315.6
2861.2
2412.7
2040.7
1786.1
1621.6
1496.2
1402.2
1302.3
1186.8
1222.0
1288.6
1327.8
1282.8
1425.7
1320.0
1075.2
855.8
707.0
587.5
284.0
0.0

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