

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: P942399

Luminaire Tested: **GALN-SB6B-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32283 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

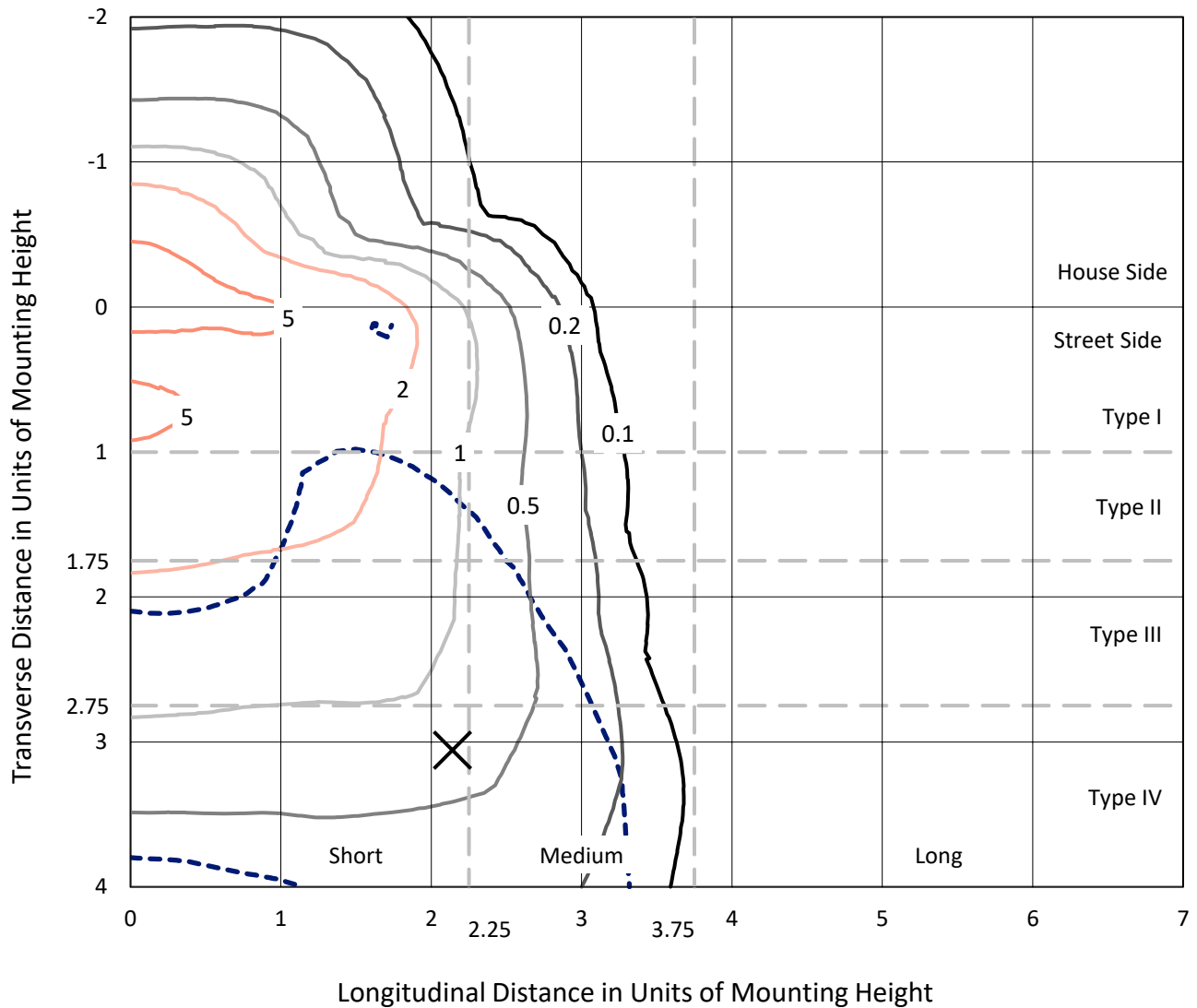
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

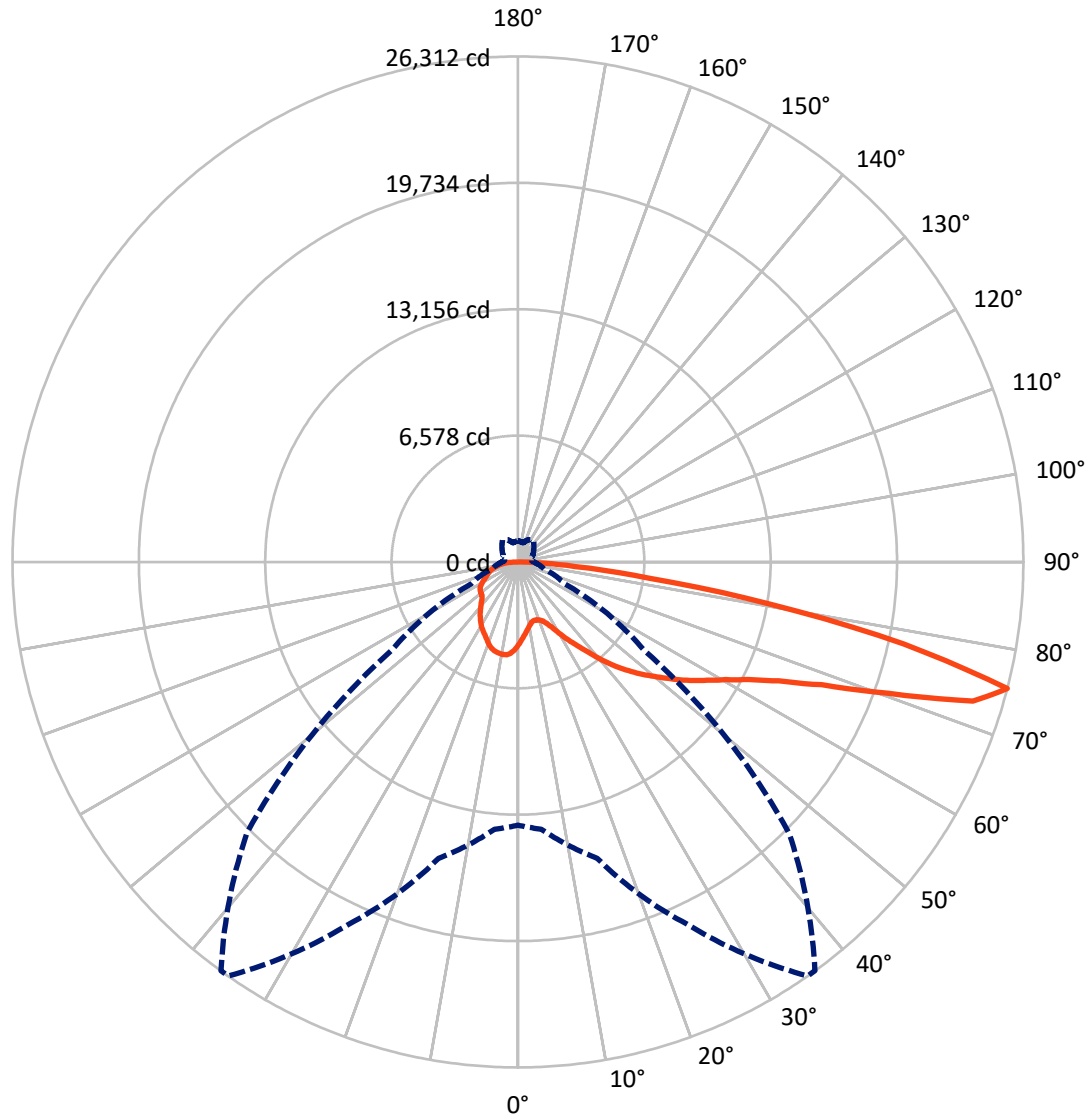
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7682.5	0.0	7682.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24600.5	0.0	24600.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	32283.0	0.0	32283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.3
10°-20°	1174.9	3.6
20°-30°	1972.9	6.1
30°-40°	3066.1	9.5
40°-50°	4550.9	14.1
50°-60°	6282.9	19.5
60°-70°	7622.5	23.6
70°-80°	6299.5	19.5
80°-90°	906.1	2.8
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°	32283.0	100.0
0°-180°	32283.0	100.0



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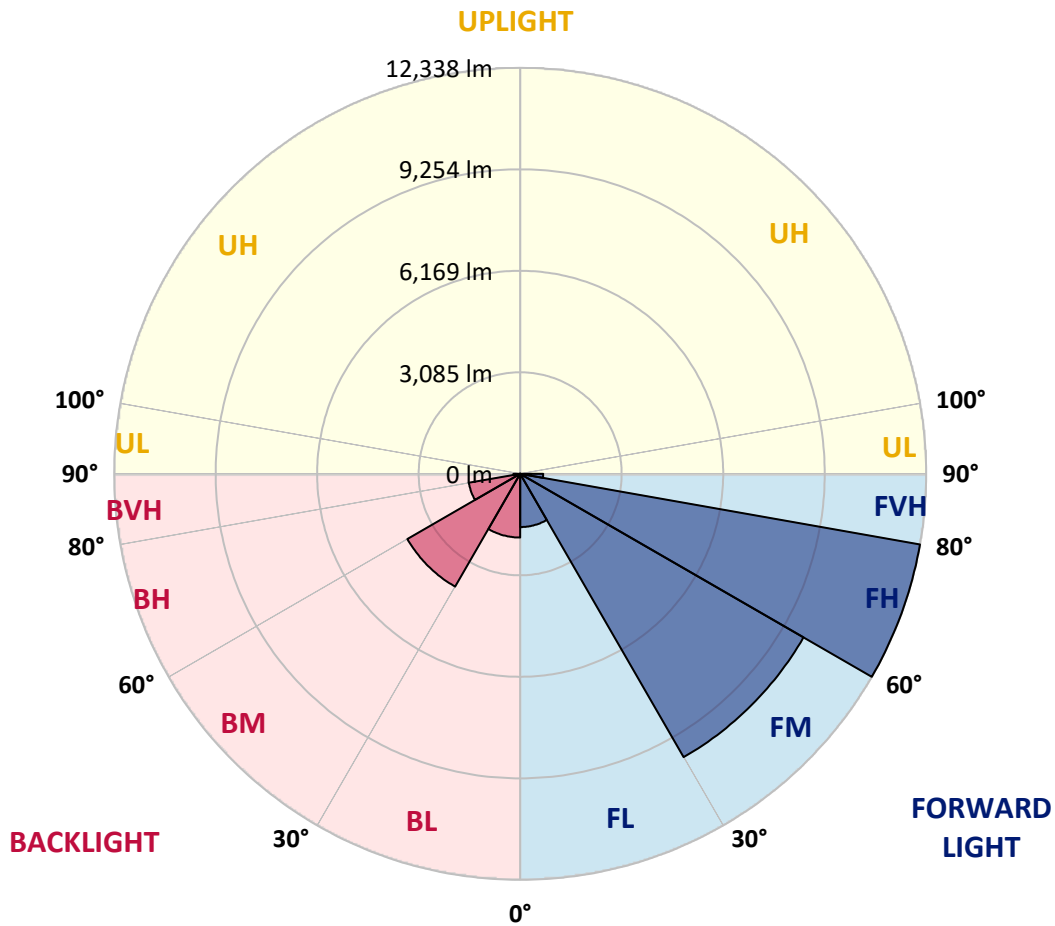
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.9	5.0			
FM (30°-60°)	9941.4	30.8			
FH (60°-80°)	12338.1	38.2			G5
FVH (80°-90°)	702.0	2.2			G4/750
BL (0°-30°)	1936.1	6.0	B3/2500		
BM (30°-60°)	3958.5	12.3	B3/5000		
BH (60°-80°)	1583.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	204.0	0.6			G2/225
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°	36°	45°	55°	65°	75°
0°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
2.5°	3966.8	3991.3	4001.8	3996.5	4022.7	4019.2	4055.9	4101.2	4164.1	4225.1
5°	3661.4	3687.6	3710.3	3731.2	3781.9	3797.6	3855.2	3942.4	4057.6	4174.5
7.5°	3377.0	3399.7	3434.6	3473.0	3558.5	3574.2	3670.2	3806.3	3966.8	4137.9
10°	3144.9	3167.5	3204.2	3247.8	3354.3	3373.5	3495.6	3677.1	3886.6	4103.0
12.5°	3045.4	3052.4	3073.3	3116.9	3209.4	3221.6	3356.0	3563.7	3808.0	4076.8
15°	3040.1	3054.1	3055.9	3078.5	3155.3	3160.6	3284.5	3490.4	3759.2	4071.6
17.5°	3092.5	3103.0	3087.3	3101.2	3165.8	3174.5	3272.3	3455.5	3743.5	4094.2
20°	3232.1	3240.8	3193.7	3174.5	3221.6	3228.6	3324.6	3478.2	3759.2	4141.4
22.5°	3528.8	3534.0	3418.9	3340.3	3343.8	3347.3	3431.1	3570.7	3820.3	4226.9
25°	3991.3	3987.8	3804.5	3652.7	3565.5	3546.3	3602.1	3720.8	3923.2	4340.3
27.5°	4532.3	4506.1	4322.9	4096.0	3905.8	3877.8	3865.6	3916.2	4069.8	4490.4
30°	5143.1	5118.7	4921.5	4624.8	4361.3	4315.9	4200.7	4174.5	4288.0	4694.6
32.5°	5813.3	5797.6	5562.0	5202.5	4849.9	4797.6	4603.8	4534.0	4623.0	5003.5
35°	6375.2	6361.3	6165.8	5795.8	5364.8	5300.2	5103.0	5024.4	5069.8	5399.7
37.5°	6883.1	6876.1	6708.6	6417.1	5972.1	5893.6	5671.9	5645.7	5637.0	5921.5
40°	7354.3	7336.8	7162.3	7008.7	6678.9	6607.3	6411.9	6389.2	6322.9	6563.7
42.5°	7876.1	7830.7	7577.7	7506.1	7417.1	7357.8	7240.9	7244.3	7097.7	7288.0
45°	8301.9	8275.8	8015.7	7973.8	8069.8	8045.4	8146.6	8172.8	7888.3	8047.1
47.5°	8759.2	8734.7	8514.9	8485.2	8745.2	8752.2	9110.0	9118.7	8659.7	8836.0
50°	9322.9	9288.0	9069.8	9106.5	9397.9	9424.1	10078.6	10019.2	9370.0	9637.0
52.5°	9694.6	9715.6	9668.4	9727.8	10125.7	10150.1	11031.4	10879.6	10073.3	10427.6
55°	9968.6	10010.5	10157.1	10293.2	10893.6	10918.0	11930.2	11698.1	10656.2	11160.6
57.5°	10321.1	10261.8	10535.8	10801.1	11623.1	11687.6	12804.6	12486.9	11172.8	11792.3
60°	10827.2	10785.4	10998.3	11390.9	12439.8	12542.8	13729.5	13197.2	11551.5	12293.2
62.5°	11853.4	11748.7	11781.9	12129.2	13469.5	13605.6	14773.2	13816.8	11740.0	12488.7
65°	13387.5	13207.7	13040.2	13281.0	14919.7	15054.1	15951.2	14303.7	11670.2	12110.0
67.5°	15319.4	15141.4	14935.5	15162.3	17055.9	17162.3	17404.9	14577.7	11120.4	10651.0
70°	16912.8	16846.5	17092.5	18026.2	20467.8	20471.2	19268.8	14350.8	9614.3	7551.5
72.5°	16701.6	16661.5	17958.2	20844.7	24767.9	24675.4	21033.2	12633.5	6476.5	3406.6
75°	13701.6	13961.6	15970.4	20794.1	26312.4	26300.2	19952.9	8031.4	2678.9	1411.9
77.5°	7347.3	7759.2	10368.3	15352.6	20541.1	20850.0	14028.0	2809.8	1150.1	904.0
80°	2396.2	2755.7	4132.6	7816.8	13347.3	13289.7	6012.2	1103.0	787.1	640.5
82.5°	1017.5	1059.3	1846.4	3691.1	6849.9	6743.5	1914.5	633.5	553.2	438.0
85°	397.9	445.0	815.0	1706.8	2966.8	2902.3	691.1	314.1	354.3	286.2
87.5°	130.9	158.8	291.4	584.6	923.2	890.1	169.3	108.2	153.6	130.9
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°
4301.9	0°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
4314.1	2.5°	4338.6	4366.5	4399.7	4448.5	4490.4	4525.3	4562.0	4584.7	4593.4	4619.6
4321.1	5°	4370.0	4431.1	4513.1	4593.4	4671.9	4719.0	4760.9	4781.9	4801.1	4815.0
4340.3	7.5°	4422.3	4500.9	4630.0	4734.7	4801.1	4839.5	4867.4	4860.4	4867.4	4870.9
4361.3	10°	4467.7	4577.7	4731.2	4830.7	4881.3	4883.1	4876.1	4851.7	4839.5	4841.2
4392.7	12.5°	4521.8	4644.0	4809.8	4893.6	4907.5	4869.1	4839.5	4797.6	4781.9	4774.9
4439.8	15°	4595.1	4734.7	4895.3	4926.7	4891.8	4842.9	4792.3	4724.3	4689.4	4661.4
4520.1	17.5°	4684.1	4837.7	4961.6	4938.9	4863.9	4783.6	4701.6	4598.6	4527.1	4497.4
4630.0	20°	4808.0	4945.9	5012.2	4912.7	4799.3	4677.1	4537.5	4411.9	4345.6	4315.9
4769.6	22.5°	4958.1	5090.8	5061.1	4867.4	4706.8	4511.4	4336.8	4244.3	4211.2	4190.2
4949.4	25°	5137.9	5251.3	5096.0	4801.1	4555.0	4291.5	4157.1	4127.4	4111.7	4096.0
5169.3	27.5°	5371.7	5432.8	5122.2	4703.3	4317.6	4057.6	4008.7	4014.0	4008.7	3982.6
5474.7	30°	5680.6	5668.4	5146.6	4544.5	4045.4	3846.4	3849.9	3872.6	3876.1	3858.6
5900.5	32.5°	6087.3	5963.4	5158.8	4338.6	3785.3	3661.4	3664.9	3689.4	3706.8	3677.1
6457.3	35°	6579.4	6307.2	5139.6	4080.3	3584.6	3485.2	3459.0	3466.0	3471.2	3443.3
7132.6	37.5°	7153.6	6692.9	5054.1	3794.1	3418.9	3312.4	3256.6	3209.4	3181.5	3155.3
7897.0	40°	7783.6	7113.5	4897.0	3514.8	3233.9	3129.2	3045.4	2956.4	2862.1	2827.2
8706.8	42.5°	8443.3	7546.3	4706.8	3247.8	3020.9	2935.4	2846.4	2717.3	2575.9	2504.4
9548.0	45°	9127.4	7989.5	4520.1	2984.3	2802.8	2766.1	2663.2	2507.9	2354.3	2263.5
10390.9	47.5°	9797.6	8408.4	4246.1	2719.0	2598.6	2638.7	2558.5	2415.4	2244.3	2101.2
11226.9	50°	10438.1	8801.1	3797.6	2450.3	2432.8	2600.4	2523.6	2317.6	2122.2	1938.9
12047.1	52.5°	11073.3	9118.7	3223.4	2205.9	2343.8	2589.9	2478.2	2251.3	2012.2	1820.2
12818.5	55°	11612.6	9282.7	2670.2	1996.5	2214.7	2500.9	2424.1	2172.8	1856.9	1652.7
13347.3	57.5°	11919.7	9150.1	2209.4	1790.6	2036.7	2354.3	2331.6	2005.2	1671.9	1514.8
13450.3	60°	11787.1	8612.6	1832.5	1610.8	1867.4	2195.5	2171.0	1839.4	1530.5	1382.2
12898.8	62.5°	11055.9	7588.1	1534.0	1453.8	1713.8	2033.2	2010.5	1712.0	1422.3	1279.2
11434.6	65°	9582.9	6172.8	1301.9	1322.9	1558.5	1837.7	1870.9	1605.6	1336.8	1197.2
8846.4	67.5°	7308.9	4471.2	1120.4	1209.4	1406.6	1645.7	1741.7	1528.8	1265.3	1132.6
5118.7	70°	4165.8	2539.3	966.8	1099.5	1272.3	1467.7	1642.2	1467.7	1188.5	1078.5
1918.0	72.5°	1579.4	1165.8	836.0	989.5	1143.1	1317.6	1532.3	1371.7	1099.5	1017.5
991.3	75°	842.9	710.3	703.3	860.4	994.8	1171.0	1394.4	1277.5	1033.2	1075.0
685.9	77.5°	574.2	502.6	588.1	736.5	832.5	1008.7	1247.8	1134.4	895.3	891.8
474.7	80°	397.9	356.0	478.2	593.4	644.0	848.2	1089.0	973.8	729.5	680.6
293.2	82.5°	239.1	232.1	357.8	443.3	455.5	654.5	902.3	816.8	596.9	520.1
174.5	85°	130.9	137.9	228.6	260.0	265.3	457.2	706.8	631.8	459.0	385.7
62.8	87.5°	36.6	47.1	83.8	103.0	127.4	237.3	420.6	375.2	230.4	160.6
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>
4301.9
4617.8
4818.5
4876.1
4844.7
4771.4
4670.2
4499.1
4312.4
4193.7
4096.0
3987.8
3867.4
3691.1
3462.5
3172.8
2842.9
2513.1
2256.5
2085.5
1923.2
1799.3
1635.3
1493.9
1361.3
1256.5
1174.5
1111.7
1064.6
1003.5
<i>1109.9</i>
822.0
651.0
523.6
389.2
160.6
0.0

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