

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: P941142

Luminaire Tested: **GALN-SB4C-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31477 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

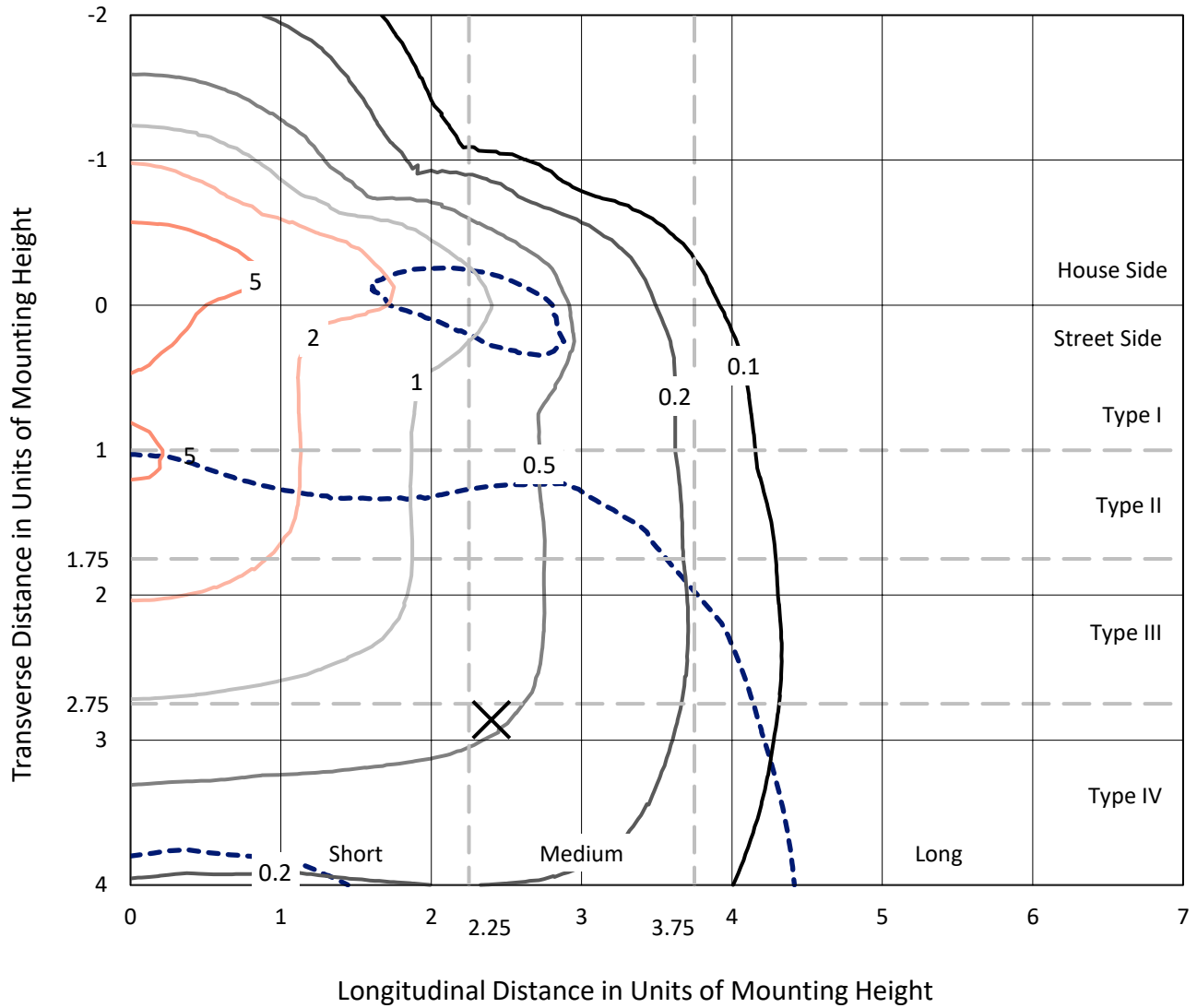
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

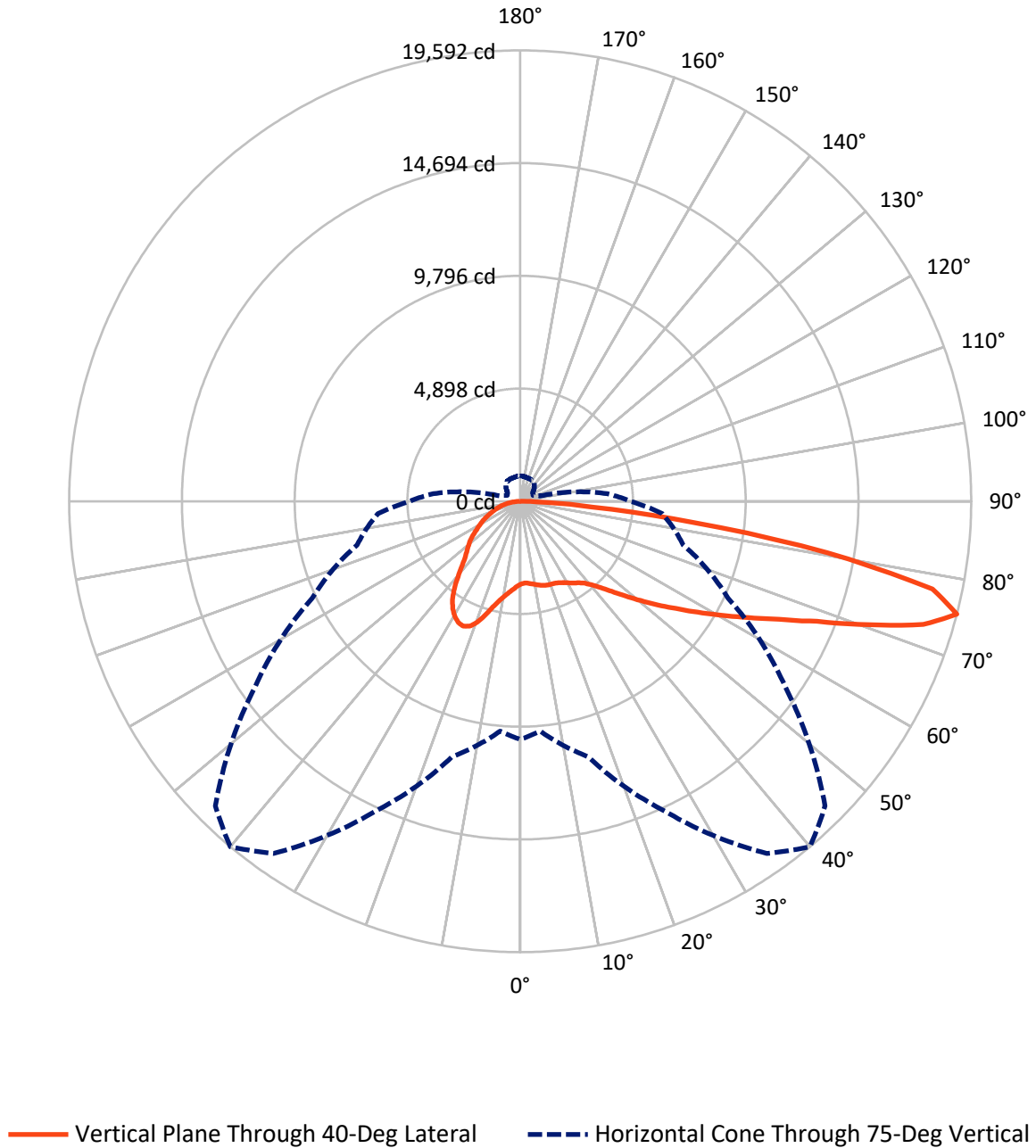
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9752.6	0.0	9752.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21724.4	0.0	21724.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	31477.0	0.0	31477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	1.1
10°-20°	1206.3	3.8
20°-30°	2202.6	7.0
30°-40°	3123.9	9.9
40°-50°	4218.2	13.4
50°-60°	5674.7	18.0
60°-70°	7202.4	22.9
70°-80°	6536.7	20.8
80°-90°	952.8	3.0
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°	31477.0	100.0
0°-180°	31477.0	100.0

Coefficient of Utilization



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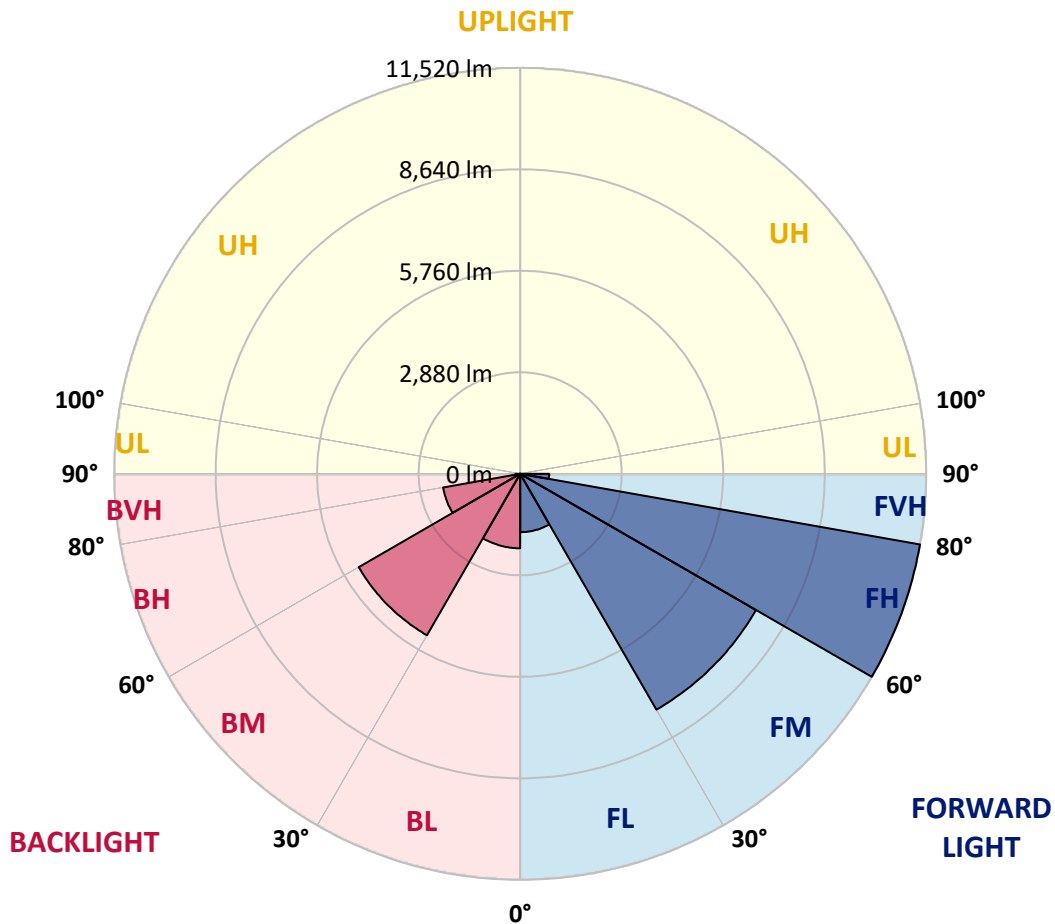
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.7	5.3			
FM (30°-60°)	7726.9	24.5			
FH (60°-80°)	11520.1	36.6			G4/12000
FVH (80°-90°)	821.7	2.6			G5
BL (0°-30°)	2112.5	6.7	B3/2500		
BM (30°-60°)	5289.9	16.8	B4/8500		
BH (60°-80°)	2219.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	131.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4
2.5°	3544.3	3564.4	3559.4	3552.7	3552.7	3554.4	3552.7	3564.4	3576.1	3587.8
5°	3581.1	3601.1	3591.1	3582.7	3576.1	3574.4	3569.4	3567.7	3574.4	3589.4
7.5°	3652.9	3672.9	3657.9	3642.8	3629.5	3622.8	3616.1	3606.1	3601.1	3609.5
10°	3733.0	3753.0	3734.7	3708.0	3686.3	3677.9	3671.2	3661.2	3654.5	3659.5
12.5°	3813.1	3833.2	3808.1	3771.4	3743.0	3738.0	3729.7	3726.3	3724.6	3723.0
15°	3888.3	3905.0	3873.2	3829.8	3799.8	3791.4	3783.1	3788.1	3796.4	3806.5
17.5°	3946.7	3963.4	3916.6	3859.9	3831.5	3828.2	3823.1	3839.8	3863.2	3888.3
20°	4000.1	4016.8	3956.7	3879.9	3846.5	3846.5	3848.2	3883.3	3916.6	3953.4
22.5°	4075.2	4088.6	4015.1	3910.0	3861.5	3864.9	3878.2	3913.3	3955.0	4005.1
25°	4187.1	4197.1	4107.0	3966.7	3911.6	3921.6	3933.3	3950.0	3990.1	4048.5
27.5°	4367.4	4375.8	4257.2	4066.9	3983.4	4000.1	4016.8	4005.1	4023.5	4073.6
30°	4621.2	4626.2	4475.9	4223.8	4105.3	4113.6	4117.0	4068.6	4033.5	4073.6
32.5°	4921.7	4920.0	4741.4	4414.2	4243.9	4235.5	4207.1	4112.0	4030.2	4065.2
35°	5387.5	5369.1	5138.7	4681.3	4400.8	4349.0	4282.3	4160.4	4046.9	4056.9
37.5°	6158.8	6102.0	5783.1	5118.7	4634.5	4502.6	4404.1	4238.9	4083.6	4053.5
40°	7028.6	6956.8	6606.2	5718.0	4985.1	4773.1	4614.5	4350.7	4143.7	4068.6
42.5°	8060.3	7958.5	7581.2	6424.2	5429.2	5122.0	4883.3	4492.6	4232.2	4117.0
45°	9327.5	9192.3	8658.0	7220.6	5988.5	5579.5	5260.6	4708.0	4367.4	4210.5
47.5°	10608.0	10641.4	9881.8	8132.1	6659.6	6143.8	5733.1	5031.9	4564.4	4360.7
50°	11968.6	11992.0	11098.8	9142.2	7420.9	6781.5	6264.0	5394.1	4838.2	4574.4
52.5°	13030.4	13033.8	12204.0	10199.0	8213.9	7482.7	6836.6	5808.2	5155.4	4858.2
55°	13694.9	13686.5	12978.7	11199.0	9125.5	8218.9	7471.0	6279.0	5542.7	5192.1
57.5°	14177.4	14152.3	13512.9	12058.8	10097.1	9088.7	8188.9	6813.2	6000.2	5589.5
60°	14361.0	14346.0	13875.2	12801.7	11118.9	10050.4	9017.0	7410.9	6519.4	6058.6
62.5°	14431.1	14459.5	14230.8	13521.3	12212.4	11115.5	9926.8	8125.4	7103.7	6589.5
65°	14678.2	14730.0	14683.2	14462.9	13447.8	12362.6	11133.9	8975.2	7741.5	7158.8
67.5°	15167.4	15219.1	15239.2	15589.8	14957.0	13916.9	12639.8	10033.7	8487.7	7749.8
70°	15155.7	15140.7	15494.6	16486.3	16846.9	16068.9	14669.9	11335.9	9377.6	8240.6
72.5°	13795.1	13674.9	14511.3	16476.3	18419.6	18316.1	17149.1	13015.4	10145.5	8300.7
75°	10349.2	10028.7	11506.2	14848.5	18681.7	19591.6	18725.1	14057.2	9963.6	7334.1
77.5°	4425.8	4103.6	5844.9	10992.0	16720.0	18314.4	17279.3	12264.1	7953.5	4849.9
80°	1158.6	1157.0	1766.3	4983.5	11370.9	13524.6	11865.1	7920.1	4544.4	1732.9
82.5°	479.1	467.5	649.4	1938.3	5556.1	7589.5	6193.8	3532.7	1641.1	469.1
85°	178.6	177.0	315.5	669.5	1960.0	3130.3	2265.5	903.2	409.0	228.7
87.5°	50.1	48.4	68.4	232.1	477.5	724.6	387.3	148.6	115.2	90.2
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°
3599.4	0°	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4	3599.4
3606.1	2.5°	3611.1	3619.5	3634.5	3646.2	3661.2	3677.9	3701.3	3716.3	3731.3	3741.3
3614.5	5°	3626.1	3644.5	3682.9	3721.3	3766.4	3808.1	3856.5	3891.6	3920.0	3928.3
3644.5	7.5°	3659.5	3689.6	3754.7	3819.8	3891.6	3960.0	4030.2	4090.3	4138.7	4157.0
3697.9	10°	3718.0	3758.0	3849.9	3941.7	4036.8	4142.0	4232.2	4319.0	4387.4	4415.8
3761.4	12.5°	3791.4	3841.5	3961.7	4088.6	4220.5	4365.7	4482.6	4589.4	4674.6	4713.0
3849.9	15°	3886.6	3951.7	4105.3	4275.6	4469.2	4671.3	4819.8	4938.4	5033.5	5080.3
3941.7	17.5°	3990.1	4076.9	4270.6	4527.7	4804.8	5070.3	5243.9	5330.7	5429.2	5474.3
4026.8	20°	4090.3	4197.1	4474.3	4848.2	5217.2	5499.3	5639.6	5662.9	5669.6	5674.6
4107.0	22.5°	4193.8	4337.4	4729.7	5252.2	5647.9	5843.2	5863.3	5763.1	5622.9	5557.8
4185.4	25°	4307.3	4497.6	5063.6	5698.0	6018.5	6041.9	5888.3	5644.6	5379.1	5257.2
4248.9	27.5°	4417.5	4682.9	5464.3	6123.7	6285.7	6080.3	5749.7	5404.2	5083.6	4955.1
4293.9	30°	4527.7	4895.0	5906.7	6496.0	6407.5	5985.1	5531.0	5145.4	4823.2	4687.9
4334.0	32.5°	4639.5	5142.1	6415.9	6764.8	6385.8	5783.1	5258.9	4854.9	4571.1	4429.2
4369.1	35°	4766.4	5445.9	6898.4	6911.7	6240.6	5486.0	4900.0	4507.6	4260.6	4147.0
4410.8	37.5°	4931.7	5831.6	7324.1	6948.4	5986.8	5050.2	4454.2	4096.9	3893.3	3841.5
4472.6	40°	5137.0	6295.7	7649.6	6890.0	5611.2	4521.0	3966.7	3681.2	3566.0	3577.7
4556.1	42.5°	5404.2	6814.9	7878.4	6739.8	5088.6	3975.1	3539.3	3412.5	3467.5	3514.3
4681.3	45°	5751.4	7354.1	8020.3	6484.3	4497.6	3512.6	3287.2	3317.3	3359.0	3364.0
4883.3	47.5°	6195.5	7900.1	8113.8	6098.7	3894.9	3187.1	3127.0	3133.6	3125.3	3090.2
5185.5	50°	6749.8	8431.0	8197.2	5587.8	3382.4	2983.4	2903.3	2879.9	2764.7	2651.2
5587.8	52.5°	7380.8	8918.5	8232.3	4953.4	2983.4	2813.1	2682.9	2536.0	2320.6	2285.5
6093.7	55°	8082.0	9369.2	8142.1	4173.7	2647.8	2594.4	2397.4	2220.4	2197.1	2167.0
6759.8	57.5°	8920.1	9855.0	7958.5	3303.9	2303.9	2339.0	2147.0	2167.0	2125.3	2078.5
7616.2	60°	9836.7	10357.6	7636.3	2510.9	1948.3	2020.1	2081.9	2080.2	2068.5	2030.1
8519.4	62.5°	10661.4	10688.1	7001.9	1923.3	1636.1	1773.0	1941.6	1940.0	1929.9	1908.2
9462.7	65°	11152.2	10638.0	5943.4	1514.2	1379.0	1569.3	1751.3	1764.7	1766.3	1764.7
10172.2	67.5°	11065.4	10052.0	4490.9	1205.4	1167.0	1362.3	1562.6	1581.0	1594.4	1597.7
10262.4	70°	10083.8	8764.9	2928.3	961.6	978.3	1180.3	1384.0	1402.4	1414.1	1427.4
8905.1	72.5°	7860.0	6444.3	1676.2	778.0	813.0	1023.4	1207.0	1228.8	1235.4	1260.5
6197.2	75°	4789.8	3789.8	904.9	612.7	667.8	874.8	1031.7	1056.8	1068.5	1098.5
3043.5	77.5°	2277.2	1641.1	515.9	477.5	537.6	714.5	871.5	899.9	868.1	884.8
839.8	80°	769.6	609.4	325.6	364.0	410.7	557.6	697.9	726.2	659.5	656.1
278.8	82.5°	268.8	247.1	207.0	242.1	265.5	399.0	527.6	564.3	490.8	489.2
125.2	85°	105.2	100.2	115.2	131.9	158.6	245.4	347.3	365.6	302.2	243.7
36.7	87.5°	21.7	23.4	28.4	30.1	48.4	85.1	125.2	153.6	121.9	103.5
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>
3599.4
3734.7
3931.7
4158.7
4417.5
4713.0
5076.9
5472.6
5688.0
5576.1
5275.6
4970.1
4703.0
4447.5
4172.1
3878.2
3617.8
3557.7
3397.4
3117.0
2666.2
2297.2
2172.0
2070.2
2016.8
1899.9
1764.7
1601.0
1434.1
1270.5
<i>1101.9</i>
871.5
649.4
465.8
240.4
95.2
0.0

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