

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: P950978

Luminaire Tested: **GALN-SB5B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950978
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-SB5B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28826 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

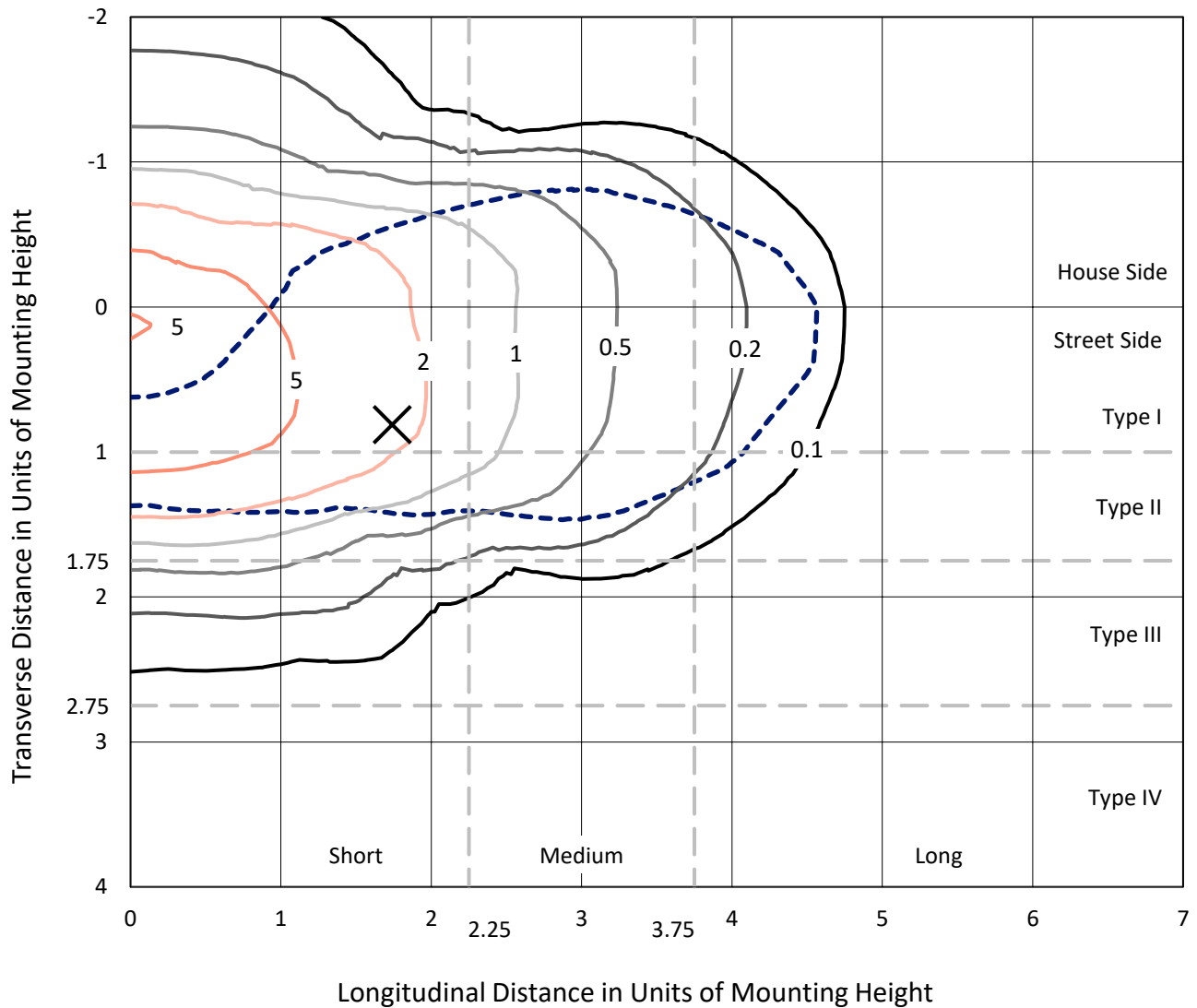
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

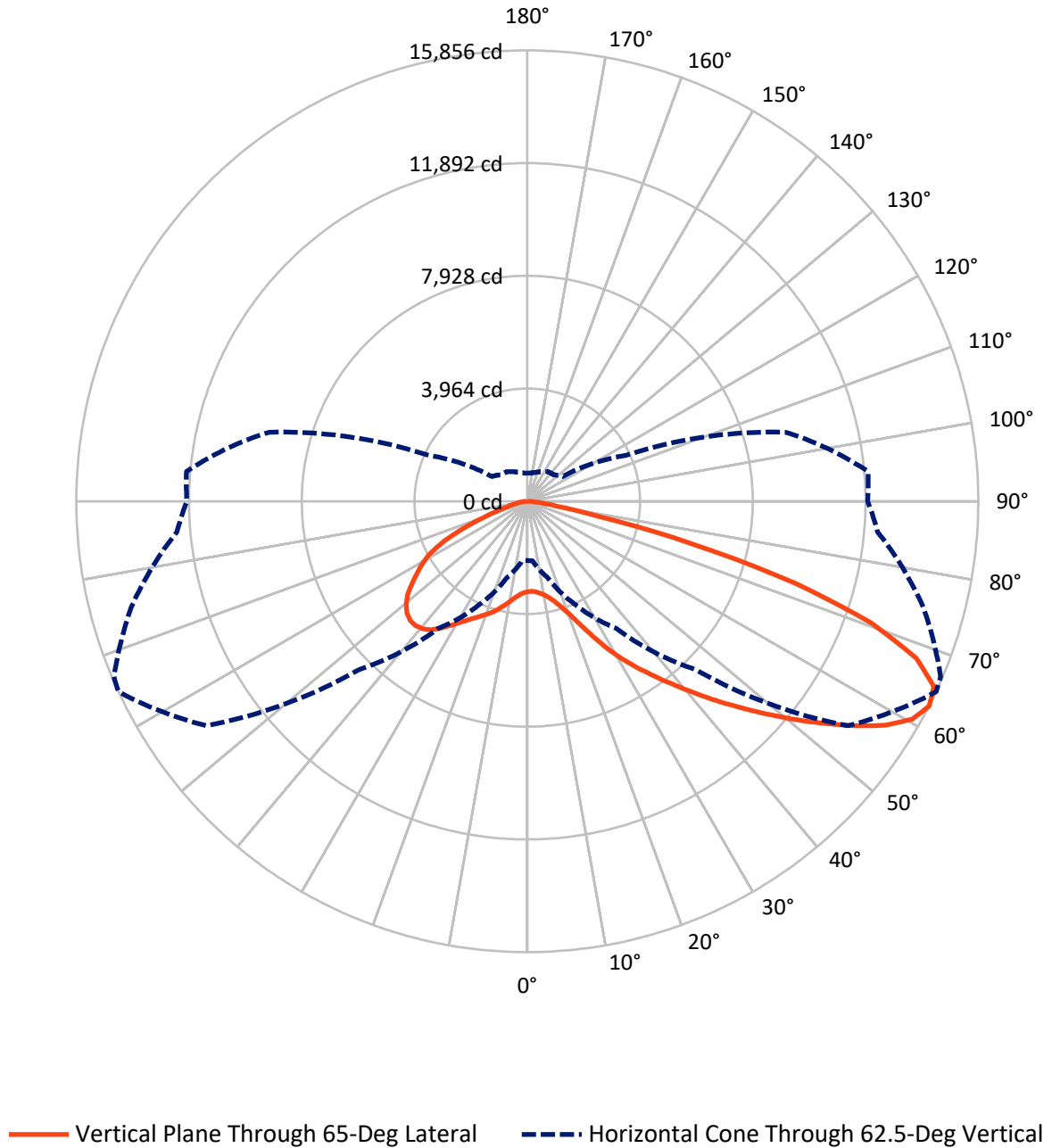
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9096.2	0.0	9096.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19729.8	0.0	19729.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	28826.0	0.0	28826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.1
10°-20°	1073.9	3.7
20°-30°	2177.5	7.6
30°-40°	3768.2	13.1
40°-50°	5702.4	19.8
50°-60°	6685.7	23.2
60°-70°	5605.1	19.4
70°-80°	3094.5	10.7
80°-90°	402.0	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°	28826.0	100.0
0°-180°	28826.0	100.0

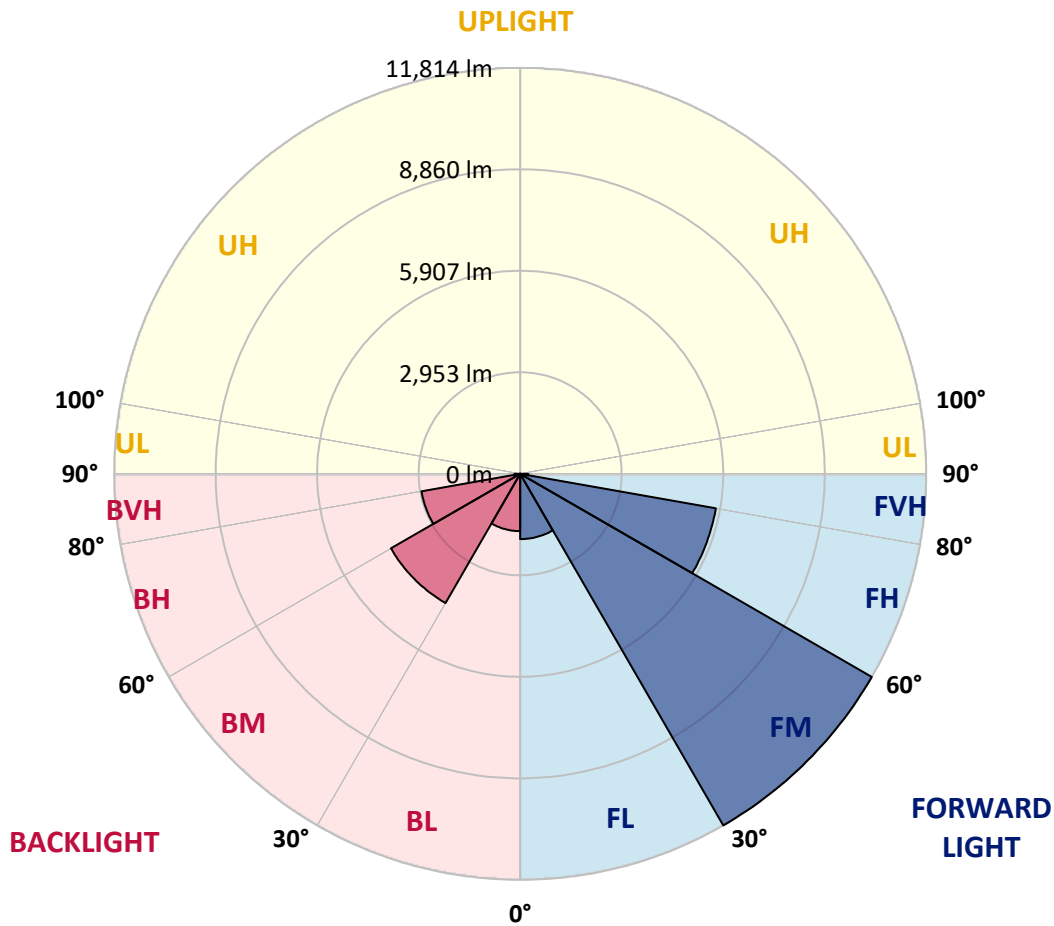


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.0	6.6			
FM (30°-60°)	11813.8	41.0			
FH (60°-80°)	5781.6	20.1			G3/7500
FVH (80°-90°)	234.3	0.8			G3/500
BL (0°-30°)	1668.1	5.8	B3/2500		
BM (30°-60°)	4342.4	15.1	B3/5000		
BH (60°-80°)	2918.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	167.7	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°	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5
2.5°	3155.6	3146.6	3154.1	3154.1	3157.1	3155.6	3166.0	3169.0	3173.5	3182.5
5°	3124.2	3122.7	3136.1	3148.1	3160.0	3170.5	3184.0	3203.4	3206.4	3216.9
7.5°	3113.7	3104.7	3125.7	3140.6	3169.0	3194.4	3230.3	3263.2	3276.7	3281.2
10°	3194.4	3179.5	3198.9	3207.9	3231.8	3257.3	3299.1	3351.5	3366.4	3384.4
12.5°	3332.0	3315.6	3344.0	3357.5	3379.9	3402.3	3430.7	3481.6	3489.1	3522.0
15°	3520.5	3501.0	3519.0	3535.4	3572.8	3593.8	3622.2	3671.5	3671.5	3696.9
17.5°	3776.2	3750.8	3764.2	3770.2	3794.2	3825.6	3873.4	3916.8	3939.2	3930.2
20°	4157.6	4126.2	4126.2	4096.2	4087.3	4112.7	4175.5	4235.3	4259.3	4212.9
22.5°	4730.4	4685.5	4660.1	4558.4	4518.0	4521.0	4583.8	4657.1	4676.5	4594.3
25°	5458.7	5388.4	5354.0	5204.4	5113.2	5033.9	5083.3	5177.5	5204.4	5102.7
27.5°	6187.0	6191.5	6158.6	5979.1	5828.1	5683.0	5657.6	5756.3	5784.7	5669.5
30°	7208.4	7102.3	7039.4	6824.1	6608.7	6405.3	6300.7	6341.0	6348.5	6210.9
32.5°	8089.3	8062.4	7927.8	7739.4	7462.7	7144.1	6969.2	6904.9	6892.9	6697.0
35°	9092.8	9077.9	8935.8	8711.4	8412.3	7969.7	7654.1	7470.2	7455.2	7180.0
37.5°	10112.8	10112.8	9973.7	9728.4	9418.8	8865.5	8385.4	8093.8	8045.9	7687.0
40°	10926.3	10877.0	10902.4	10799.2	10444.8	9857.0	9197.5	8774.3	8710.0	8279.2
42.5°	11388.4	11372.0	11524.5	11639.7	11494.6	11025.0	10091.8	9511.6	9421.8	8931.3
45°	11491.6	11473.7	11745.9	12167.6	12371.0	12178.1	11063.9	10287.7	10178.6	9613.3
47.5°	11253.8	11218.0	11617.3	12282.8	12934.8	13274.3	12116.8	11129.7	10971.2	10277.3
50°	10539.0	10504.6	11108.8	11992.6	13124.7	14019.1	13259.3	12022.5	11780.3	10989.1
52.5°	8985.1	9001.6	9948.2	11162.6	12875.0	14482.7	14243.4	12963.2	12671.6	11717.5
55°	6999.1	7035.0	8198.5	9535.5	11876.0	14412.4	14914.9	13932.3	13642.2	12402.4
57.5°	5011.5	5170.0	6260.3	7583.8	9957.2	13298.2	15061.5	14853.6	14572.4	13150.2
60°	3248.3	3276.7	4398.3	5732.4	7582.3	11318.2	14763.8	15552.0	15332.1	13912.9
62.5°	2081.8	2101.2	2784.7	4009.5	5457.2	8373.5	13761.8	15855.6	15788.3	14416.9
65°	1529.9	1515.0	1870.9	2650.1	3676.0	5164.1	11816.2	15709.0	15842.1	14732.4
67.5°	1277.2	1256.2	1431.2	1835.0	2708.4	2932.7	8742.9	14756.4	15243.9	14696.5
70°	1163.5	1145.6	1251.8	1362.4	2113.2	1963.6	4407.3	12828.6	13579.4	14288.3
72.5°	985.6	954.1	1099.2	1209.9	1643.6	1506.0	1821.6	9854.0	10769.3	12979.7
75°	764.2	743.3	867.4	1064.8	1235.3	1175.5	1151.6	5983.6	6982.6	10038.0
77.5°	605.7	577.3	690.9	830.0	1111.2	886.8	839.0	2576.8	3566.8	6408.3
80°	456.1	430.7	524.9	656.5	853.9	668.5	542.9	1051.4	1344.5	3246.8
82.5°	324.5	302.1	366.4	481.6	574.3	599.7	333.5	589.2	662.5	1251.8
85°	207.9	194.4	245.3	302.1	364.9	385.8	203.4	308.1	338.0	516.0
87.5°	113.7	92.7	131.6	140.6	169.0	154.0	97.2	112.2	121.1	186.9
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°
3176.5	0°	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5	3176.5
3182.5	2.5°	3188.5	3193.0	3207.9	3212.4	3222.9	3236.3	3245.3	3254.3	3254.3	3263.2
3230.3	5°	3231.8	3242.3	3273.7	3290.2	3317.1	3344.0	3360.5	3379.9	3391.9	3397.8
3306.6	7.5°	3315.6	3332.0	3376.9	3405.3	3451.7	3489.1	3514.5	3541.4	3547.4	3563.8
3412.8	10°	3429.2	3448.7	3499.5	3553.4	3608.7	3655.1	3679.0	3698.4	3705.9	3708.9
3548.9	12.5°	3559.4	3587.8	3653.6	3719.4	3777.7	3818.1	3824.1	3819.6	3798.6	3780.7
3716.4	15°	3719.4	3744.8	3818.1	3889.9	3946.7	3954.2	3916.8	3892.9	3867.4	3862.9
3903.3	17.5°	3910.8	3924.3	3991.6	4061.9	4066.3	4040.9	3985.6	3963.1	3939.2	3922.8
4147.1	20°	4133.6	4129.2	4177.0	4206.9	4175.5	4097.7	4014.0	3976.6	3952.7	3933.2
4446.2	22.5°	4399.8	4365.4	4359.5	4352.0	4268.2	4105.2	3991.6	3943.7	3906.3	3879.4
4863.5	25°	4787.2	4655.6	4564.3	4513.5	4325.1	4064.8	3919.8	3813.6	3743.3	3696.9
5373.4	27.5°	5271.7	5050.4	4820.1	4696.0	4325.1	3982.6	3746.3	3574.3	3459.2	3411.3
5867.0	30°	5733.9	5502.0	5162.6	4915.8	4314.6	3848.0	3466.6	3227.3	3092.8	3044.9
6288.7	32.5°	6128.7	5875.9	5526.0	5156.6	4289.2	3629.6	3119.7	2855.0	2724.9	2668.0
6705.9	35°	6495.1	6225.9	5890.9	5421.3	4221.9	3309.6	2738.3	2536.4	2391.3	2300.1
7130.7	37.5°	6870.5	6550.4	6236.3	5660.6	4100.7	2935.7	2445.2	2273.2	2102.7	1980.1
7582.3	40°	7278.7	6895.9	6605.7	5802.6	3901.8	2579.8	2217.9	2060.8	1879.9	1749.8
8102.8	42.5°	7755.8	7310.1	7017.0	5875.9	3629.6	2327.0	2069.8	1915.8	1745.3	1639.1
8660.6	45°	8253.8	7766.3	7392.4	5874.4	3326.1	2208.9	2022.0	1869.4	1681.0	1570.3
9233.4	47.5°	8775.8	8243.3	7716.9	5778.7	3062.8	2225.3	1995.0	1769.2	1561.3	1453.7
9812.2	50°	9299.2	8765.3	8031.0	5599.3	2950.7	2189.5	1894.8	1628.6	1383.4	1286.2
10355.0	52.5°	9818.1	9320.1	8301.7	5343.5	2837.0	2056.4	1766.2	1446.2	1310.1	1242.8
10915.9	55°	10340.1	9869.0	8596.3	4971.1	2552.9	1900.8	1550.9	1377.4	1251.8	1190.4
11464.7	57.5°	10863.5	10503.1	8876.0	4598.7	2195.4	1709.4	1432.7	1293.6	1193.4	1141.1
11923.8	60°	11407.9	11228.4	9164.6	4256.3	1842.5	1464.1	1346.0	1226.3	1124.6	1066.3
12365.0	62.5°	11968.7	12027.0	9390.4	3815.1	1518.0	1314.6	1268.2	1145.6	1046.9	991.5
12729.9	65°	12534.0	12797.2	9538.5	3203.4	1230.8	1172.5	1184.5	1057.3	957.1	909.3
12997.6	67.5°	12960.2	13352.1	9496.6	2424.2	1009.5	1037.9	1079.8	964.6	870.4	833.0
12954.3	70°	13008.1	13286.3	9083.8	1660.0	845.0	906.3	963.1	873.4	776.2	749.3
12344.1	72.5°	12371.0	12388.9	7933.8	1084.3	714.9	795.6	840.5	780.7	686.4	659.5
10799.2	75°	10700.5	10245.9	5825.1	714.9	598.2	683.5	725.3	683.5	592.2	598.2
8080.3	77.5°	8107.3	7256.3	3536.9	508.5	499.5	574.3	631.1	601.2	523.4	587.7
4063.3	80°	4177.0	3925.8	1577.8	379.9	394.8	459.1	518.9	480.1	414.3	394.8
907.8	82.5°	957.1	1112.7	622.1	272.2	285.6	330.5	396.3	360.4	297.6	251.2
378.4	85°	335.0	366.4	275.2	170.5	167.5	206.4	269.2	240.8	201.9	161.5
160.0	87.5°	106.2	139.1	103.2	68.8	71.8	92.7	124.1	113.7	94.2	61.3
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>
3176.5
3263.2
3400.8
3557.9
3701.4
3780.7
3862.9
3924.3
3934.7
3888.4
3714.9
3435.2
3073.3
2696.4
2330.0
2013.0
1775.2
1660.0
1588.3
1468.6
1292.1
1242.8
1184.5
1132.1
1061.8
990.0
907.8
834.5
750.8
658.0
577.3
517.5
360.4
248.3
170.5
64.3
0.0

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