

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: P951711

Luminaire Tested: **GALN-SB5D-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55392 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

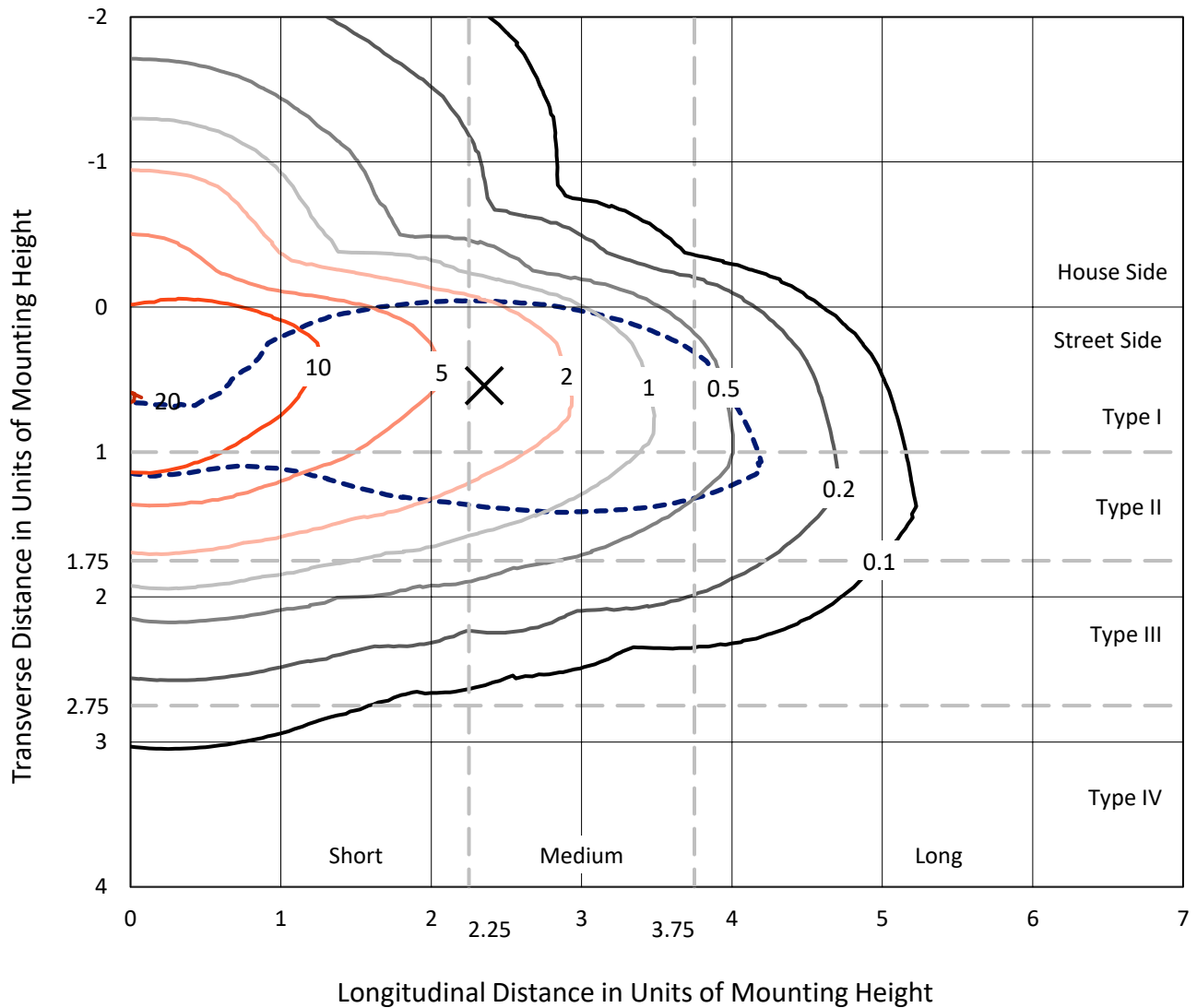
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

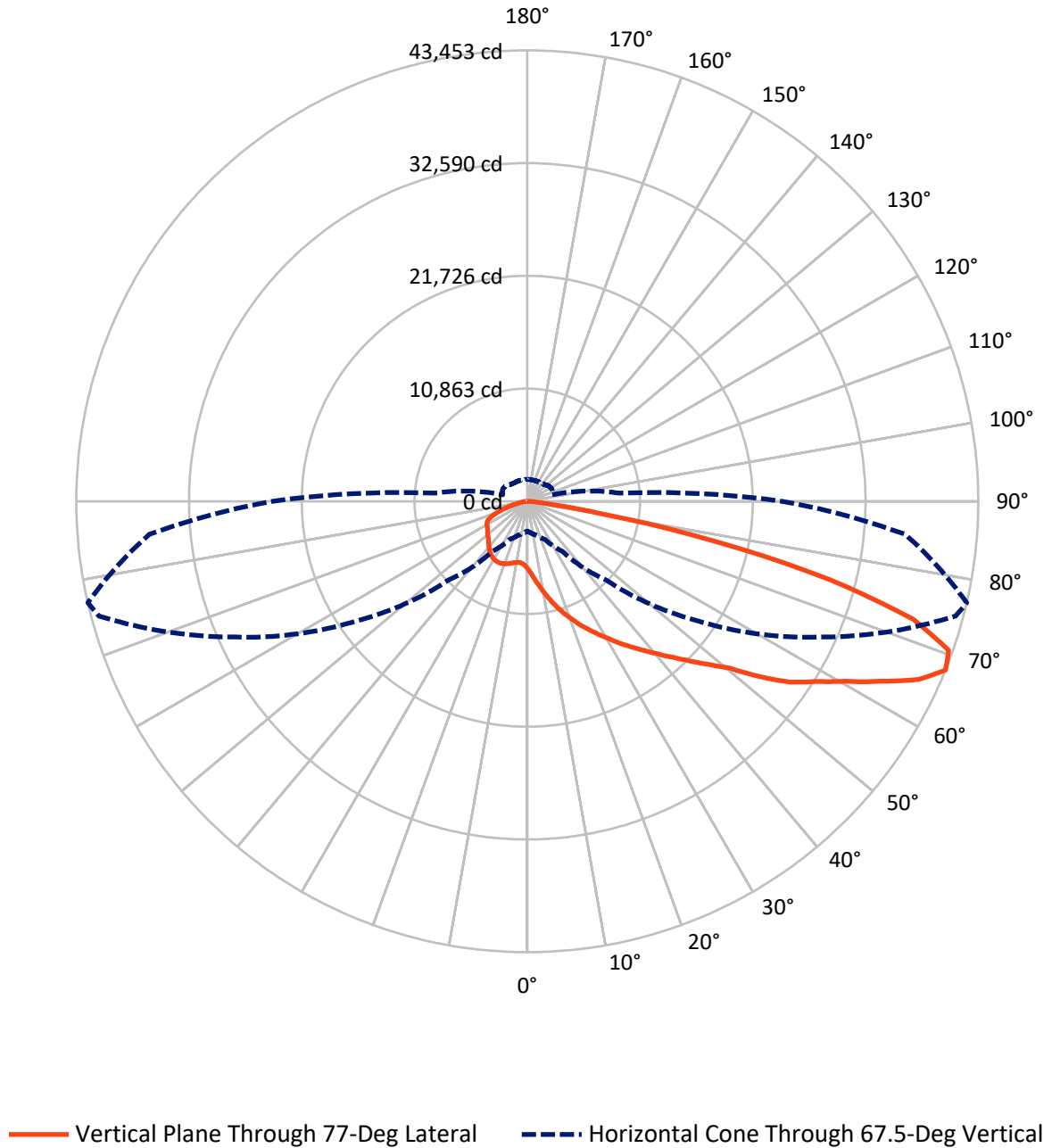
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10478.0	0.0	10478.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	44914.1	0.0	44914.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	55392.0	0.0	55392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.6	1.3
10°-20°	2502.7	4.5
20°-30°	4725.3	8.5
30°-40°	7612.4	13.7
40°-50°	10412.5	18.8
50°-60°	11745.3	21.2
60°-70°	10962.8	19.8
70°-80°	6009.5	10.8
80°-90°	724.9	1.3
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°	55392.0	100.0
0°-180°	55392.0	100.0

Coefficient of Utilization

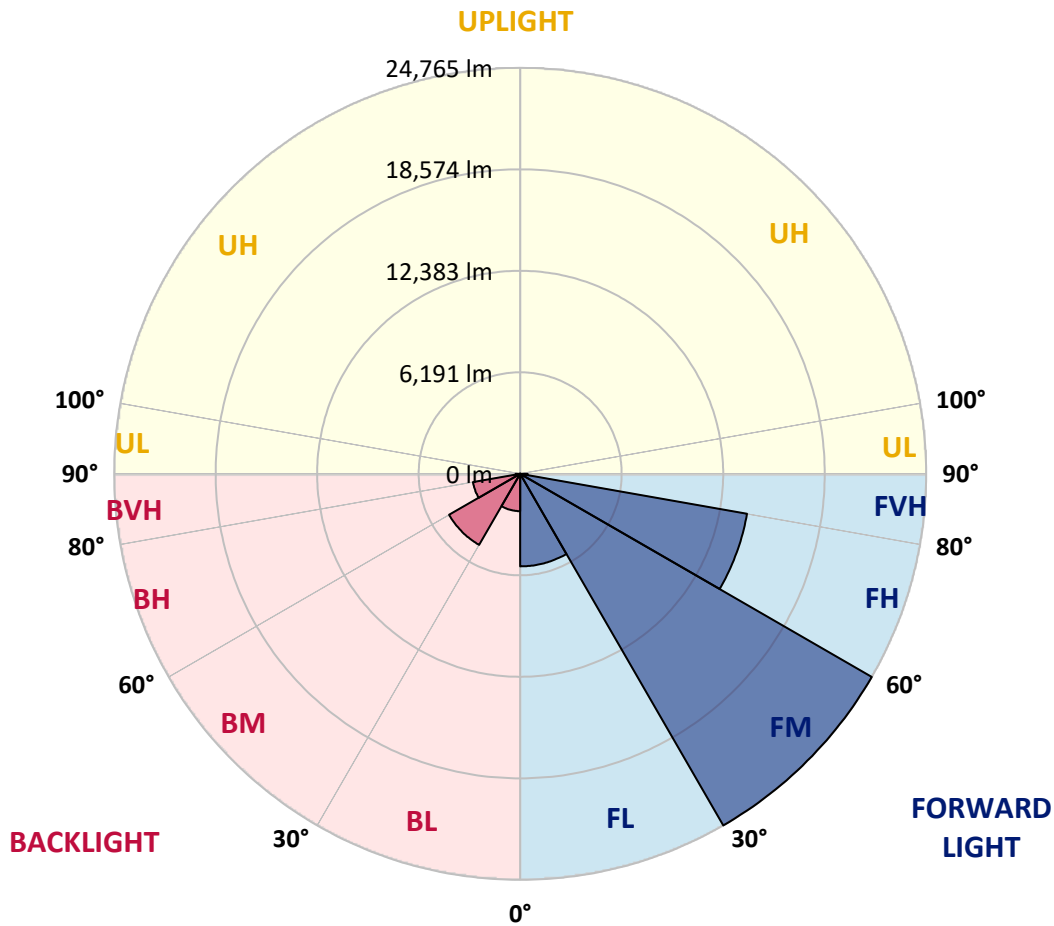


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5646.5	10.2			
FM	(30°-60°)	24765.2	44.7			
FH	(60°-80°)	14049.1	25.4			G5
FVH	(80°-90°)	453.3	0.8			G3/500
BL	(0°-30°)	2278.1	4.1	B3/2500		
BM	(30°-60°)	5005.1	9.0	B4/8500		
BH	(60°-80°)	2923.2	5.3	B4/5000		G4/5000
BVH	(80°-90°)	271.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2
2.5°	8137.6	8194.8	8123.3	8123.3	7883.1	7757.3	7517.1	7334.1	7005.3	6948.1
5°	9618.7	9690.2	9590.1	9547.2	9264.2	9004.0	8600.8	8203.3	7617.2	7557.1
7.5°	10765.3	10856.8	10768.1	10722.4	10470.8	10179.1	9707.3	9152.6	8326.3	8209.1
10°	11700.3	11714.6	11686.0	11703.1	11505.8	11265.7	10782.4	10136.2	9104.0	8943.9
12.5°	12229.3	12295.0	12352.2	12455.1	12420.8	12272.1	11837.5	11065.5	9927.5	9721.6
15°	12478.0	12592.4	12721.1	12958.4	13149.9	13187.1	12855.4	12063.4	10765.3	10516.5
17.5°	12566.6	12675.3	12878.3	13221.4	13633.2	13910.5	13761.8	13032.7	11594.5	11308.6
20°	13015.6	13047.0	13170.0	13495.9	13942.0	14402.3	14513.8	13964.9	12415.1	12092.0
22.5°	13976.3	13913.4	13947.7	14096.4	14416.6	14862.7	15117.2	14788.3	13258.6	12886.9
25°	15563.2	15380.2	15197.2	15025.7	15188.6	15440.3	15729.0	15611.8	14142.1	13670.3
27.5°	17567.6	17344.6	16941.4	16378.1	16180.8	16269.5	16398.1	16375.2	14959.9	14482.4
30°	19540.5	19280.3	18799.9	17985.0	17464.6	17230.2	17133.0	17067.2	15849.1	15340.2
32.5°	21116.0	20910.1	20438.3	19526.2	18771.3	18371.0	18047.9	17813.5	16778.4	16269.5
35°	22494.2	22302.6	21762.2	20767.1	19946.5	19520.5	19097.3	18596.9	17744.9	17230.2
37.5°	23752.3	23560.7	22820.1	21785.1	20958.7	20664.2	20286.8	19437.6	18714.2	18228.1
40°	24547.1	24504.3	23812.3	22640.0	21782.2	21636.4	21510.6	20412.6	19789.3	19337.5
42.5°	24750.2	24844.5	24295.5	23331.9	22514.2	22396.9	22691.5	21516.3	20995.9	20564.1
45°	24261.2	24532.8	24172.6	23517.8	23034.6	22971.7	23738.0	22722.9	22331.2	21936.6
47.5°	23023.1	23483.5	23334.8	23243.3	23174.7	23446.3	24658.7	24003.9	23843.8	23500.6
50°	20524.1	21396.2	21656.4	22234.0	22897.3	23815.2	25496.4	25402.1	25610.8	25264.8
52.5°	16203.7	17404.6	18914.3	20361.1	22045.2	23692.2	26417.1	27409.3	28290.0	28101.3
55°	13375.8	13916.2	15077.1	17730.6	20392.6	23174.7	26831.7	29030.5	30949.1	30780.4
57.5°	11202.8	11686.0	12400.8	14616.8	17893.5	21999.5	27089.1	30019.9	32770.5	32753.3
60°	8872.4	9384.2	10116.2	11686.0	14974.2	19969.4	27031.9	31146.4	35095.1	35238.1
62.5°	6241.9	6805.1	7617.2	9081.2	11991.9	17338.8	25865.3	31961.3	37831.5	38220.3
65°	4103.1	4474.8	5086.7	6350.5	8935.3	13956.3	23637.9	32067.1	40759.4	41417.0
67.5°	2876.5	3019.4	3379.7	4065.9	5890.2	10702.4	20089.5	30972.0	42712.3	43452.9
70°	2244.6	2316.0	2499.0	2773.5	3699.9	7196.9	15394.5	28124.1	42294.9	43066.9
72.5°	1938.6	2007.2	2075.9	2110.2	2481.9	4443.4	10427.9	23514.9	38363.3	38886.6
75°	1758.5	1775.6	1832.8	1821.4	1892.9	2882.2	6018.8	17133.0	30268.6	30088.5
77.5°	1478.3	1501.1	1595.5	1581.2	1681.3	1970.1	3125.2	11056.9	19623.4	18399.6
80°	1252.4	1263.8	1366.7	1349.6	1461.1	1426.8	1595.5	5635.7	8323.4	7051.0
82.5°	434.6	537.5	1043.6	1075.1	1115.1	863.5	920.7	2298.9	2541.9	1947.2
85°	211.6	225.9	531.8	754.9	752.0	434.6	448.9	820.6	800.6	629.0
87.5°	34.3	42.9	62.9	294.5	234.5	114.4	154.4	160.1	165.8	143.0
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°
6499.2	0°	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2
6730.8	2.5°	6570.7	6427.7	6127.5	5850.1	5632.8	5424.1	5306.9	5206.8	5149.6	5138.2
7045.3	5°	6748.0	6453.5	5907.3	5447.0	5146.8	4923.7	4806.5	4732.2	4695.0	4672.1
7468.5	7.5°	7002.4	6570.7	5793.0	5269.7	4955.2	4795.1	4735.0	4723.6	4720.7	4723.6
7980.3	10°	7354.1	6762.3	5781.5	5226.8	4963.8	4875.1	4872.3	4875.1	4886.6	4889.4
8537.9	12.5°	7734.4	6959.6	5827.3	5264.0	5072.4	5023.8	5015.2	5012.4	5020.9	5026.7
9101.2	15°	8149.0	7219.7	5904.5	5344.0	5192.5	5141.0	5132.5	5115.3	5112.4	5109.6
9693.0	17.5°	8575.1	7477.1	5990.2	5429.8	5269.7	5198.2	5166.8	5126.7	5095.3	5086.7
10304.9	20°	9006.8	7731.6	6050.3	5472.7	5275.4	5175.3	5112.4	5043.8	4989.5	4958.0
10922.5	22.5°	9467.2	7997.5	6087.5	5461.3	5224.0	5086.7	4972.3	4892.3	4809.4	4755.0
11545.9	25°	9916.1	8229.1	6084.6	5401.2	5123.9	4949.5	4803.6	4700.7	4586.3	4529.1
12189.2	27.5°	10347.8	8437.8	6013.1	5295.4	4980.9	4786.5	4612.1	4489.1	4377.6	4323.3
12838.3	30°	10793.9	8612.2	5901.6	5141.0	4812.2	4597.8	4406.2	4300.4	4200.3	4148.9
13524.5	32.5°	11237.1	8772.4	5744.3	4949.5	4617.8	4411.9	4223.2	4126.0	4065.9	4065.9
14262.2	35°	11706.0	8883.9	5535.6	4726.4	4411.9	4214.6	4065.9	4008.7	4003.0	3968.7
15042.8	37.5°	12200.7	8955.3	5281.1	4497.7	4208.9	4023.0	3977.3	3908.7	3851.5	3777.1
15900.6	40°	12721.1	9026.8	4975.2	4260.4	3994.5	3891.5	3871.5	3780.0	3617.0	3434.0
16872.8	42.5°	13353.0	9075.4	4657.8	4023.0	3768.6	3734.3	3762.8	3605.6	3345.4	3208.1
18045.1	45°	14084.9	9155.5	4366.2	3788.6	3537.0	3537.0	3657.1	3451.2	3236.7	3151.0
19383.2	47.5°	15034.2	9341.4	4094.5	3531.2	3322.5	3379.7	3422.6	3265.3	3145.2	3039.4
21013.0	50°	16406.7	9787.4	3814.3	3271.0	3159.5	3273.9	3213.9	3122.4	2982.3	2896.5
23603.6	52.5°	18110.8	10050.5	3565.6	3036.6	3019.4	3133.8	3048.0	2962.2	2856.4	2742.1
25567.9	55°	19271.7	10099.1	3356.8	2865.0	2925.1	2913.6	2882.2	2805.0	2747.8	2596.2
27506.5	57.5°	20569.8	10196.3	3185.3	2762.1	2865.0	2739.2	2727.8	2662.0	2587.7	2484.7
29871.2	60°	22122.5	10347.8	3036.6	2722.1	2813.6	2624.8	2567.7	2541.9	2467.6	2416.1
32716.2	62.5°	23815.2	10485.1	2885.0	2727.8	2753.5	2513.3	2427.6	2419.0	2373.2	2356.1
35386.8	65°	24970.3	10110.5	2696.3	2722.1	2659.2	2399.0	2290.3	2287.4	2250.3	2244.6
36544.8	67.5°	24567.2	8923.9	2441.8	2642.0	2561.9	2284.6	2164.5	2153.1	2104.4	2107.3
35335.3	70°	22548.5	7231.2	2090.2	2444.7	2441.8	2181.7	2033.0	1995.8	1930.0	1941.5
30723.2	72.5°	18762.8	5358.3	1618.4	2115.9	2250.3	2087.3	1881.4	1821.4	1738.5	1749.9
22680.0	75°	13550.3	3642.8	1178.0	1609.8	1958.6	1975.8	1732.7	1629.8	1529.7	1546.9
12623.8	77.5°	6933.8	2064.4	866.4	1109.4	1538.3	1795.6	1598.4	1461.1	1438.2	1598.4
3639.9	80°	2261.7	1035.1	600.5	777.7	1009.3	1469.7	1401.1	1243.8	1238.1	1275.3
763.4	82.5°	674.8	437.5	386.0	511.8	557.6	1126.6	1209.5	940.7	809.2	852.1
254.5	85°	231.6	211.6	220.2	254.5	265.9	660.5	846.4	623.3	589.0	649.1
57.2	87.5°	54.3	74.3	62.9	57.2	57.2	160.1	328.8	260.2	360.3	240.2
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>
6499.2
5138.2
4669.2
4732.2
4892.3
5029.5
5106.7
5095.3
4969.5
4757.9
4529.1
4320.4
4146.0
4068.8
3960.1
3765.7
3408.3
3211.0
3165.3
3036.6
2887.9
2719.2
2599.1
2450.4
2430.4
2356.1
2241.7
2107.3
1952.9
1747.0
1552.6
1575.5
1095.1
880.7
640.5
231.6
0.0

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