

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: P940617

Luminaire Tested: **GALN-SB3D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30552 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

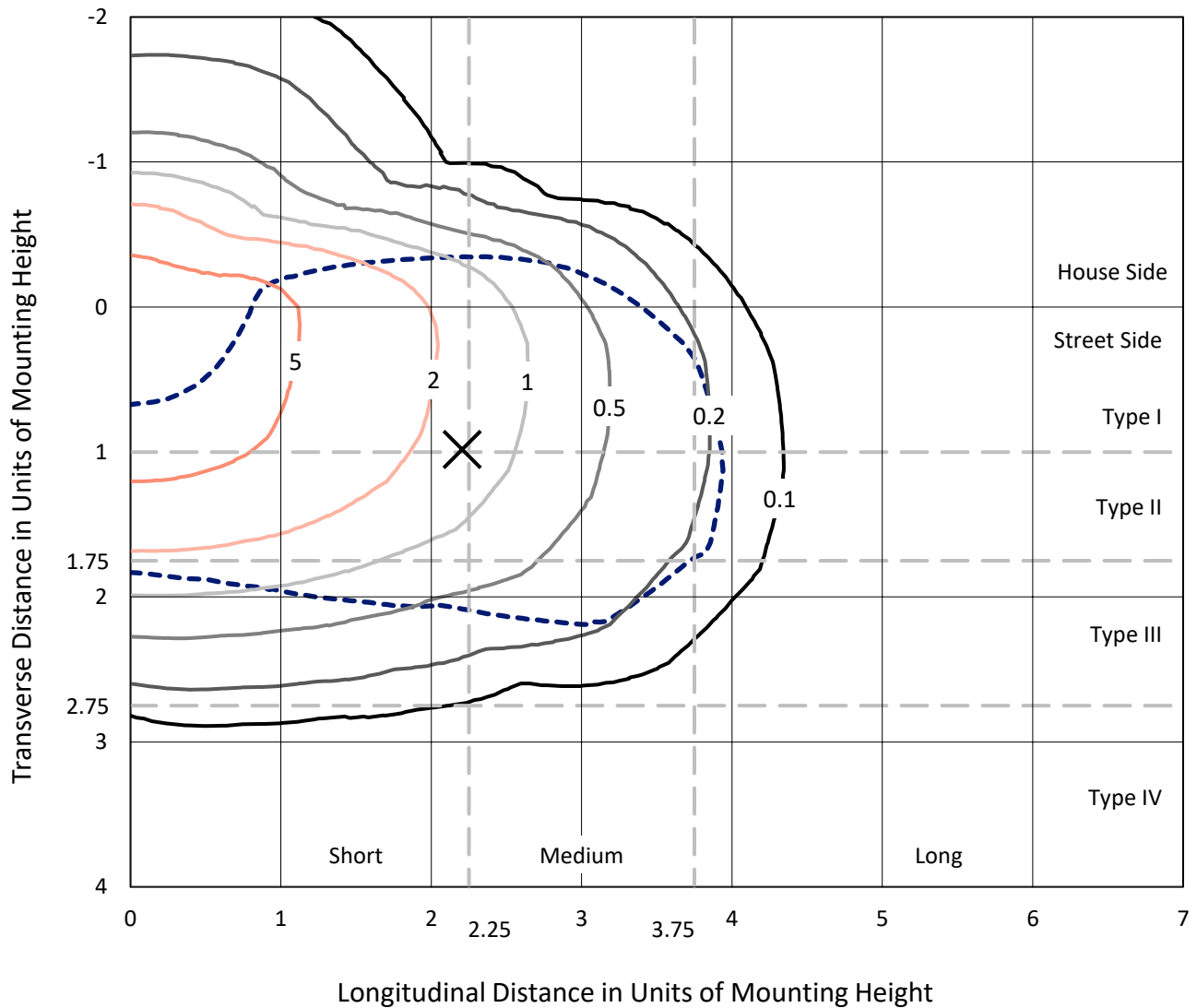
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

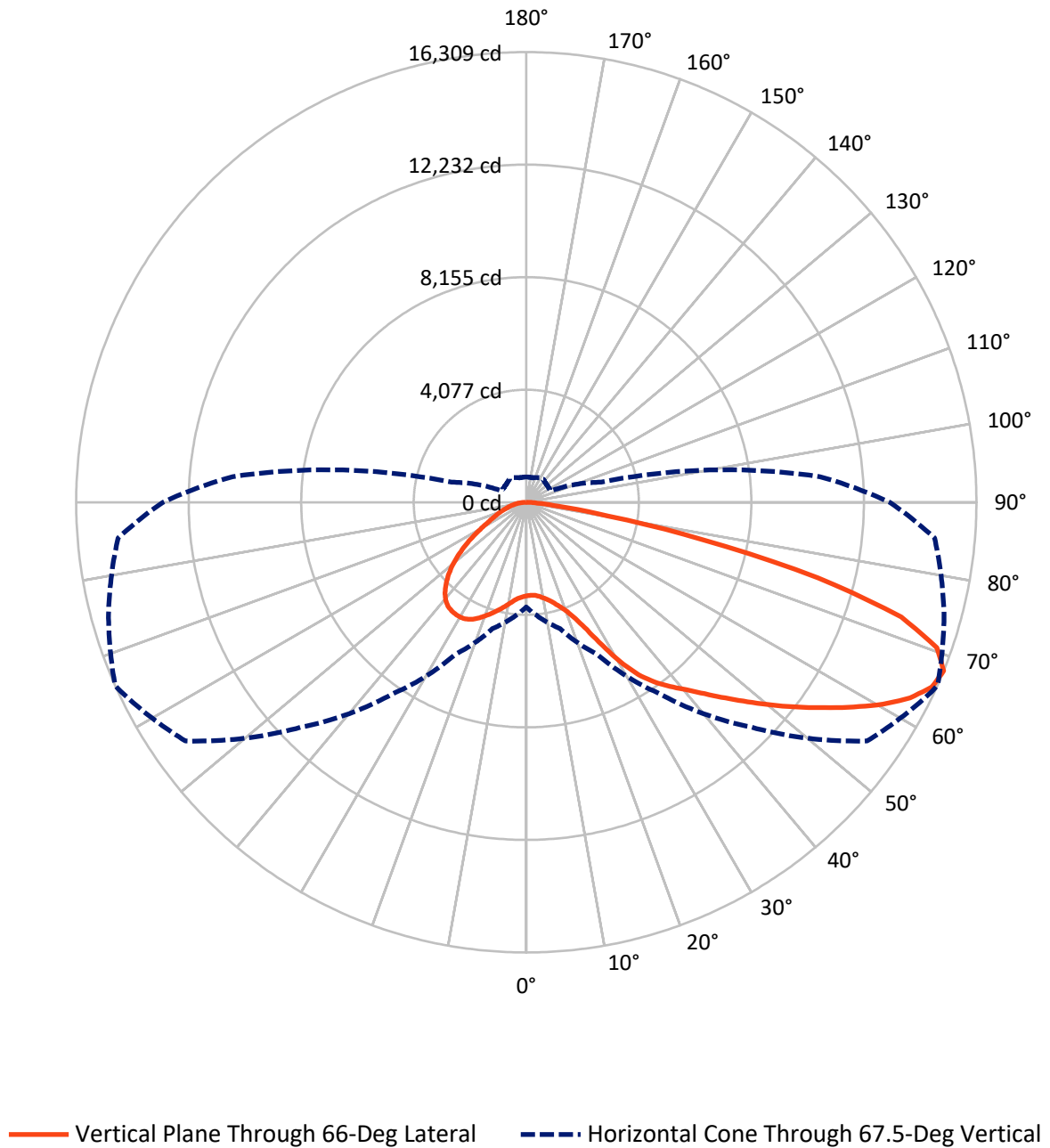
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7596.7	0.0	7596.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22955.3	0.0	22955.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	30552.0	0.0	30552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.1
10°-20°	1110.0	3.6
20°-30°	2139.5	7.0
30°-40°	3751.3	12.3
40°-50°	5576.9	18.3
50°-60°	7069.2	23.1
60°-70°	6917.1	22.6
70°-80°	3299.5	10.8
80°-90°	352.6	1.2
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°	30552.0	100.0
0°-180°	30552.0	100.0

Coefficient of Utilization



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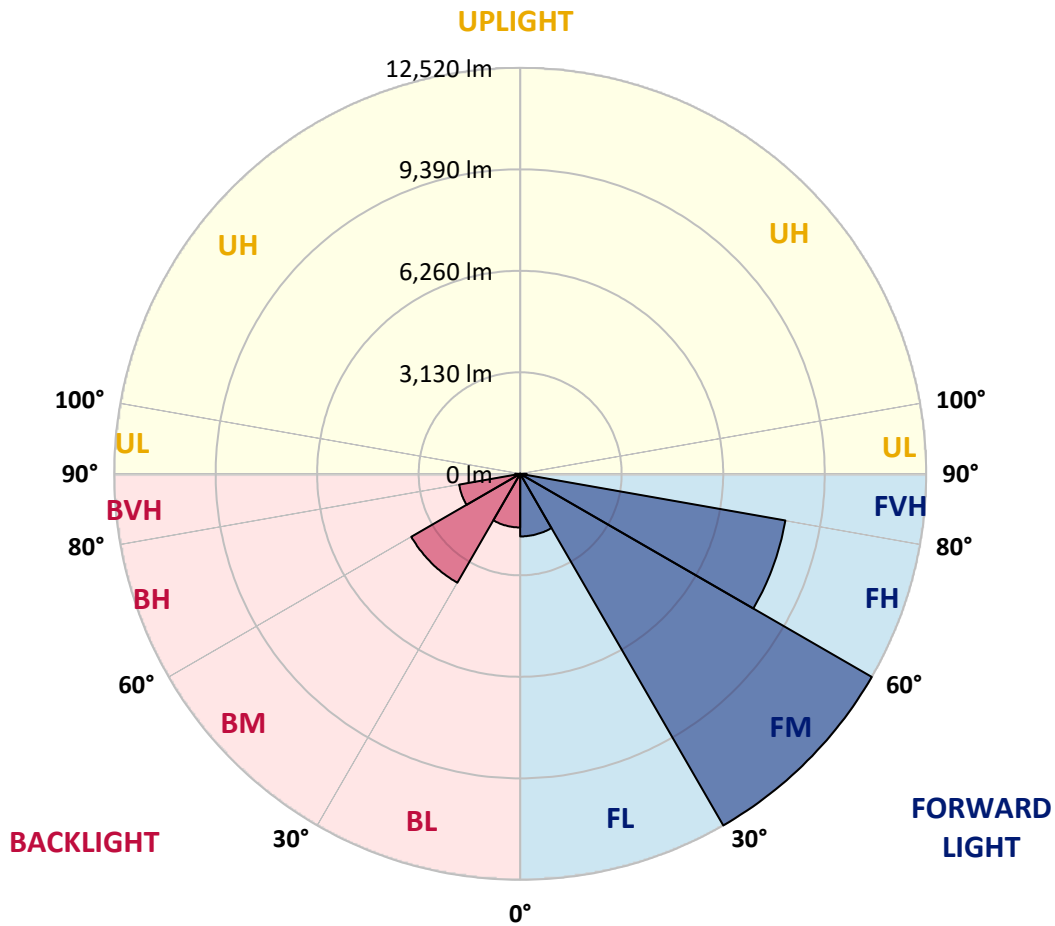
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.6	6.3			
FM (30°-60°)	12519.9	41.0			
FH (60°-80°)	8304.9	27.2			G4/12000
FVH (80°-90°)	199.9	0.7			G2/225
BL (0°-30°)	1654.8	5.4	B3/2500		
BM (30°-60°)	3877.4	12.7	B3/5000		
BH (60°-80°)	1911.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	152.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6
2.5°	3353.3	3372.6	3367.8	3359.7	3358.1	3361.3	3366.1	3371.0	3369.4	3377.4
5°	3343.7	3362.9	3361.3	3361.3	3367.8	3380.6	3388.6	3396.6	3388.6	3398.3
7.5°	3350.1	3364.5	3371.0	3377.4	3393.4	3417.5	3436.8	3454.4	3444.8	3456.0
10°	3432.0	3443.2	3449.6	3449.6	3460.9	3488.1	3507.4	3539.5	3531.5	3549.1
12.5°	3581.2	3592.5	3592.5	3586.1	3594.1	3611.7	3618.2	3653.5	3639.0	3667.9
15°	3764.2	3786.7	3769.1	3757.8	3761.0	3778.7	3777.1	3804.4	3789.9	3814.0
17.5°	3966.5	3995.4	3966.5	3964.9	3958.5	3977.7	3979.3	4003.4	3977.7	3995.4
20°	4205.7	4245.8	4221.7	4229.8	4215.3	4223.3	4231.4	4266.7	4226.5	4239.4
22.5°	4542.8	4590.9	4565.2	4595.7	4586.1	4579.7	4578.1	4640.7	4578.1	4582.9
25°	5034.0	5091.8	5046.8	5088.5	5088.5	5109.4	5133.5	5213.8	5109.4	5078.9
27.5°	5759.5	5817.3	5729.0	5754.7	5746.7	5798.1	5772.4	5971.4	5859.1	5809.3
30°	6632.8	6735.5	6568.6	6562.1	6554.1	6636.0	6672.9	6804.5	6690.6	6640.8
32.5°	7576.6	7684.2	7485.1	7427.4	7396.9	7446.6	7416.1	7522.1	7443.4	7366.4
35°	8575.1	8681.0	8491.6	8379.3	8257.3	8152.9	8043.8	8071.0	7997.2	7880.0
37.5°	9519.0	9713.2	9512.5	9392.1	9167.4	8963.6	8658.6	8531.7	8462.7	8355.2
40°	10480.5	10591.2	10438.7	10336.0	10092.0	9772.6	9284.6	9016.5	8923.4	8819.1
42.5°	11188.4	11294.3	11212.5	11141.8	10950.8	10580.0	9949.2	9613.7	9478.8	9361.6
45°	11750.2	11828.9	11777.5	11803.2	11721.3	11361.8	10637.8	10254.1	10114.5	9971.6
47.5°	11976.6	12060.0	12141.9	12294.4	12434.0	12169.2	11377.8	10947.6	10799.9	10653.8
50°	11950.9	12035.9	12273.5	12597.8	13031.2	12942.9	12157.9	11686.0	11549.6	11382.6
52.5°	11745.4	11841.7	12146.7	12686.1	13376.3	13522.4	12952.5	12448.5	12320.1	12121.0
55°	11206.0	11263.8	11721.3	12485.4	13458.2	13926.9	13731.1	13260.7	13132.3	12854.6
57.5°	10206.0	10289.5	10955.6	11944.4	13252.7	14201.4	14414.9	14114.7	13991.1	13591.4
60°	8900.9	9034.2	9796.7	11035.9	12729.4	14199.8	15036.1	14954.2	14851.5	14317.0
62.5°	7424.1	7578.2	8311.8	9751.7	11814.4	13796.9	15424.6	15657.3	15604.3	14986.3
65°	5701.7	5807.7	6538.1	8090.3	10390.6	12931.7	15469.5	16137.3	16146.9	15495.2
67.5°	3796.3	4101.3	4735.4	6070.9	8483.6	11517.5	15074.6	16215.9	16309.0	15670.2
70°	1852.4	2253.7	2874.9	3945.6	6070.9	9348.8	14042.5	15570.6	15777.7	15159.7
72.5°	768.9	898.9	1237.6	1947.1	3484.9	6308.5	11968.5	13820.9	14204.6	13432.5
75°	518.5	561.8	707.9	998.4	1587.6	3110.9	8631.3	10305.5	10923.5	10145.0
77.5°	399.7	427.0	515.3	698.3	943.9	1176.6	4619.8	6210.6	6530.0	6045.3
80°	314.6	335.5	385.3	508.9	669.4	629.2	1574.7	2814.0	2998.6	2515.4
82.5°	272.9	280.9	276.1	345.1	444.6	367.6	516.9	1038.6	1146.1	831.5
85°	197.4	219.9	229.5	213.5	236.0	186.2	211.9	367.6	404.5	361.2
87.5°	80.3	118.8	146.1	138.0	86.7	53.0	65.8	107.5	123.6	134.8
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°
3388.6	0°	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6	3388.6
3390.2	2.5°	3391.8	3403.1	3411.1	3420.7	3427.1	3436.8	3456.0	3467.3	3468.9	3476.9
3415.9	5°	3422.3	3438.4	3456.0	3481.7	3510.6	3534.7	3571.6	3597.3	3606.9	3615.0
3478.5	7.5°	3488.1	3510.6	3542.7	3587.7	3629.4	3661.5	3706.5	3737.0	3767.5	3778.7
3578.0	10°	3586.1	3618.2	3664.7	3725.7	3770.7	3812.4	3859.0	3884.6	3915.1	3928.0
3696.8	12.5°	3708.1	3741.8	3802.8	3887.8	3929.6	3958.5	3974.5	3968.1	3974.5	3985.8
3839.7	15°	3847.7	3884.6	3953.7	4045.2	4074.0	4048.4	4013.1	3980.9	3976.1	3979.3
4013.1	17.5°	4013.1	4040.3	4120.6	4197.7	4176.8	4070.8	3993.8	3942.4	3916.7	3908.7
4234.6	20°	4244.2	4244.2	4310.0	4358.2	4218.5	4038.7	3918.3	3834.9	3781.9	3759.4
4536.4	22.5°	4525.1	4499.4	4541.2	4507.5	4210.5	3948.8	3781.9	3637.4	3557.2	3525.1
4958.5	25°	4881.5	4851.0	4839.7	4631.1	4152.7	3806.0	3534.7	3359.7	3289.1	3271.4
5566.9	27.5°	5419.2	5342.2	5196.1	4698.5	4046.8	3581.2	3245.8	3083.6	3043.5	3045.1
6348.6	30°	6135.2	5981.1	5623.1	4709.7	3873.4	3263.4	2950.4	2834.8	2815.6	2823.6
7005.2	32.5°	6798.1	6652.0	6059.7	4658.4	3606.9	2952.0	2685.5	2608.5	2579.6	2589.2
7506.0	35°	7318.2	7278.1	6464.2	4586.1	3279.5	2659.9	2448.0	2382.1	2326.0	2313.1
7977.9	37.5°	7809.4	7793.3	6767.6	4485.0	2955.2	2452.8	2256.9	2170.3	2088.4	2043.4
8499.6	40°	8348.8	8332.7	6966.7	4329.3	2667.9	2273.0	2085.2	1971.2	1870.1	1788.2
9090.4	42.5°	8955.5	8860.8	7061.4	4106.2	2423.9	2120.5	1945.5	1791.4	1658.2	1582.7
9758.1	45°	9618.5	9405.0	7059.8	3822.0	2218.4	1980.8	1796.2	1577.9	1454.3	1383.7
10443.6	47.5°	10321.6	9925.1	6973.1	3507.4	2019.4	1826.7	1565.1	1398.1	1316.3	1272.9
11188.4	50°	11047.1	10411.5	6825.4	3146.2	1815.5	1651.8	1420.6	1306.6	1244.0	1203.9
11926.8	52.5°	11729.3	10852.9	6647.2	2736.9	1608.4	1481.6	1356.4	1268.1	1202.3	1157.4
12642.7	55°	12363.4	11233.3	6395.2	2317.9	1439.9	1367.6	1325.9	1252.1	1176.6	1123.7
13369.9	57.5°	12926.8	11480.5	5960.2	1924.7	1319.5	1289.0	1293.8	1224.8	1138.1	1093.2
14085.8	60°	13395.6	11661.9	5316.5	1560.3	1221.6	1211.9	1244.0	1173.4	1072.3	1020.9
14691.0	62.5°	13676.5	11658.7	4526.7	1277.8	1138.1	1141.3	1178.2	1109.2	1006.5	958.3
15007.2	65°	13652.4	11373.0	3659.9	1093.2	1057.8	1061.1	1109.2	1038.6	951.9	923.0
14848.3	67.5°	13169.2	10676.3	2807.5	972.8	969.6	984.0	1040.2	990.4	918.2	915.0
13901.2	70°	11861.0	9230.0	2022.6	876.5	878.1	898.9	972.8	959.9	900.5	906.9
11687.6	72.5°	9510.9	7037.3	1358.0	775.3	776.9	810.6	908.6	935.8	882.9	967.9
8292.6	75°	6334.2	4388.7	873.2	667.8	669.4	712.7	852.4	889.3	834.7	964.7
4314.8	77.5°	3043.5	1972.8	632.5	561.8	561.8	602.0	736.8	796.2	711.1	749.6
1386.9	80°	1051.4	741.6	497.6	452.7	443.0	470.3	621.2	690.2	613.2	565.0
452.7	82.5°	414.1	385.3	399.7	351.5	319.4	337.1	483.2	569.9	451.1	407.7
255.2	85°	237.6	250.4	282.5	232.8	184.6	207.1	354.8	409.3	340.3	300.2
83.5	87.5°	64.2	88.3	130.0	120.4	83.5	88.3	168.5	226.3	195.8	150.9
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>
3388.6
3475.3
3613.4
3780.3
3934.4
3989.0
3990.6
3919.9
3754.6
3520.2
3274.6
3049.9
2850.9
2602.1
2322.8
2045.1
1796.2
1587.6
1380.5
1263.3
1189.5
1138.1
1102.8
1064.3
998.4
943.9
921.4
<i>919.8</i>
905.3
980.8
972.8
687.0
529.7
406.1
306.6
155.7
0.0

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