

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: P949911

Luminaire Tested: **GALN-SB4C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29956 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

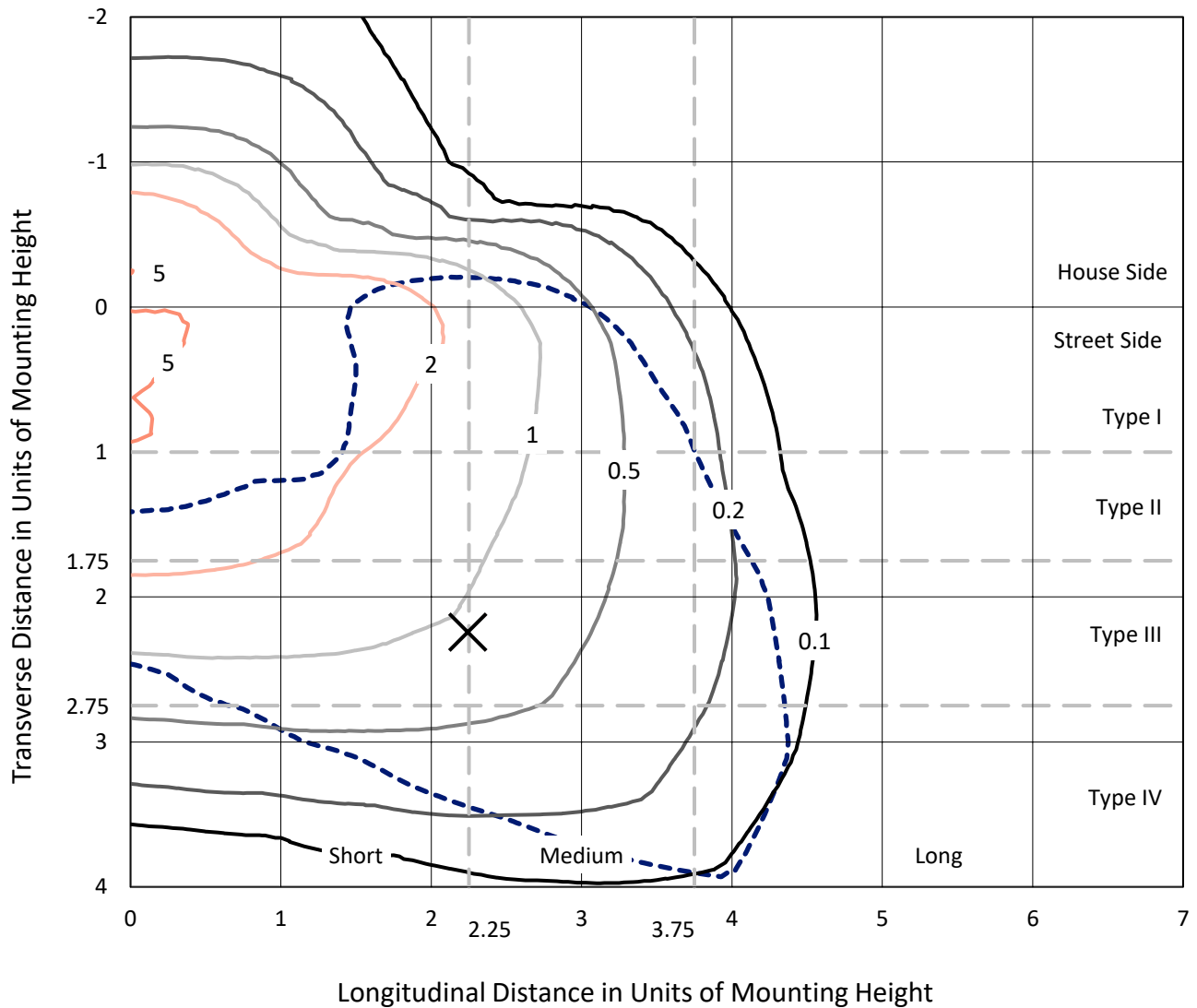
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

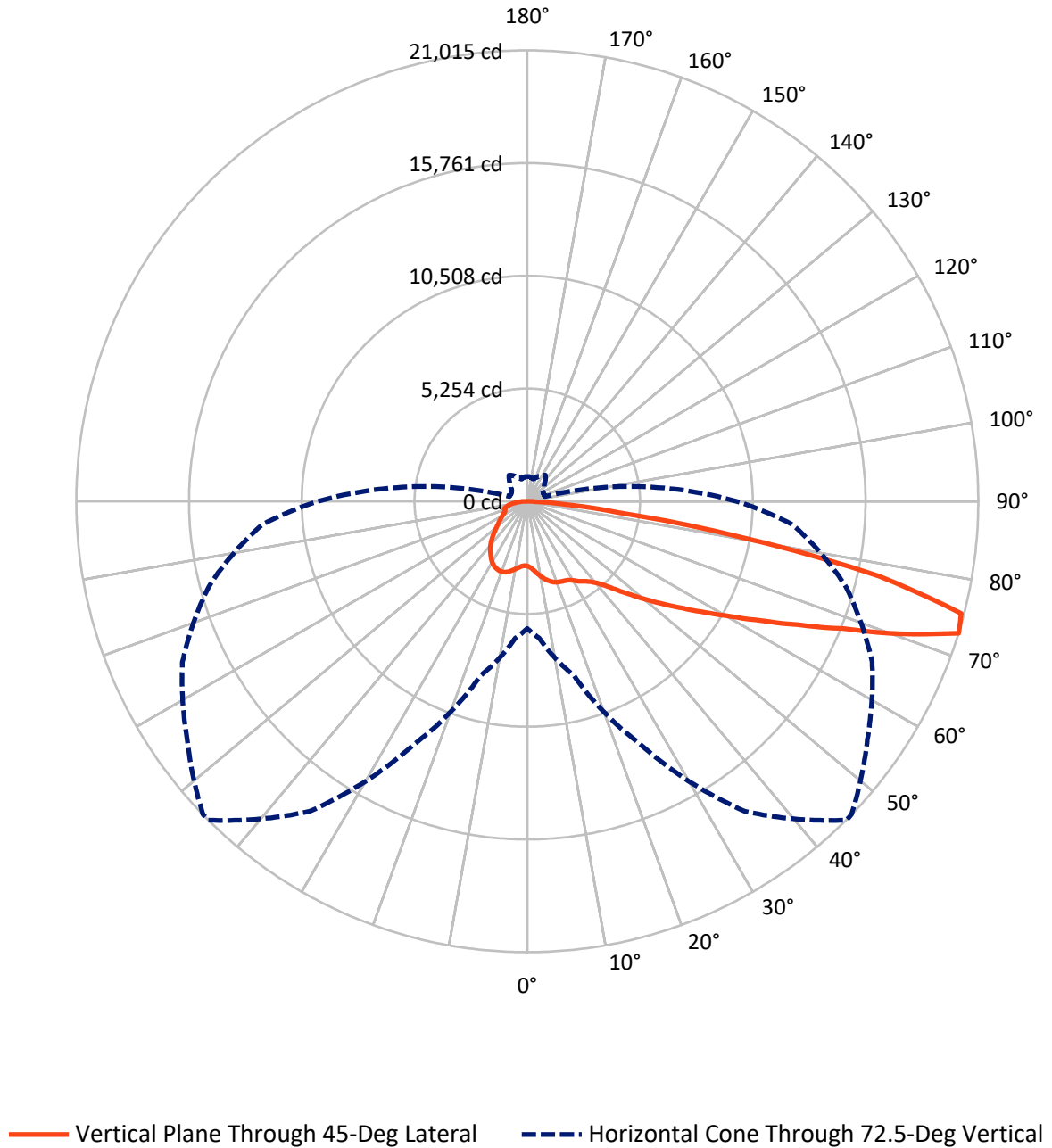
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6772.0	0.0	6772.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23184.0	0.0	23184.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	29956.0	0.0	29956.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.0
10°-20°	1025.5	3.4
20°-30°	1783.9	6.0
30°-40°	2557.3	8.5
40°-50°	3600.9	12.0
50°-60°	5515.5	18.4
60°-70°	7990.0	26.7
70°-80°	6380.5	21.3
80°-90°	794.7	2.7
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°	29956.0	100.0
0°-180°	29956.0	100.0



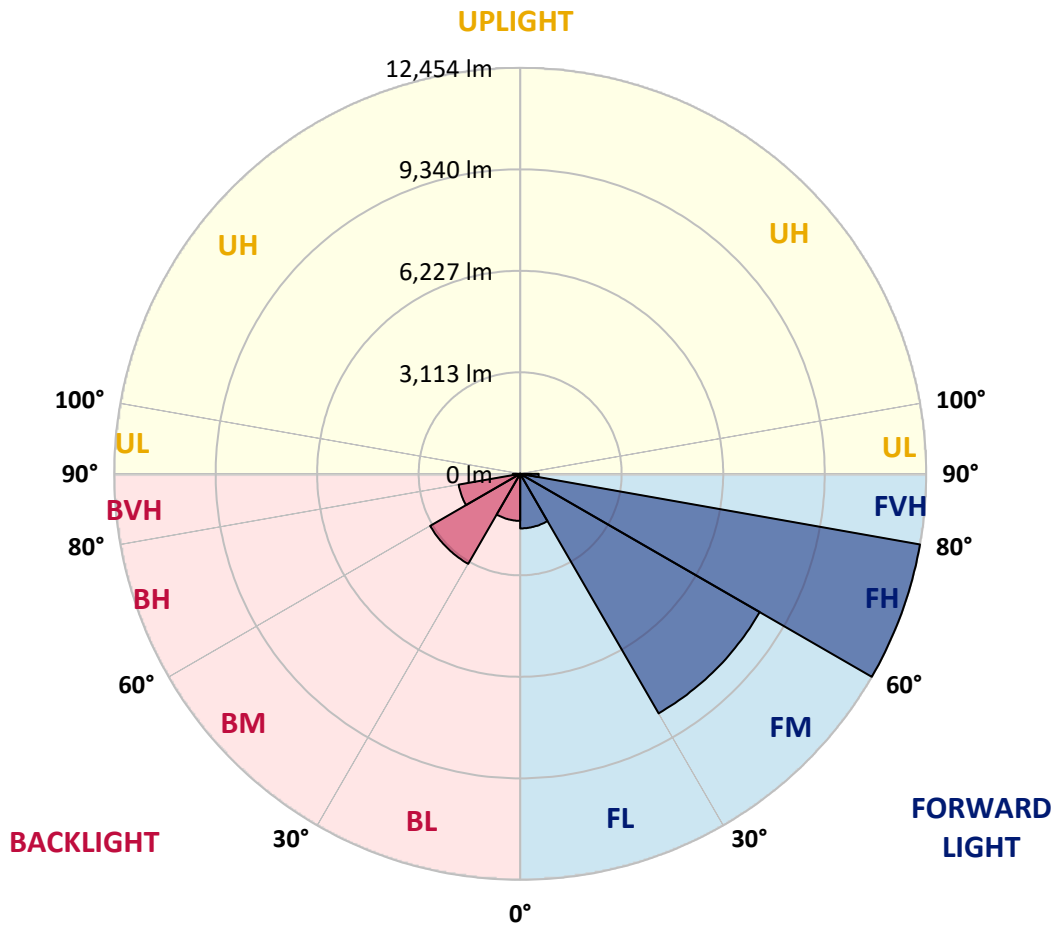
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.2	5.6			
FM (30°-60°)	8485.1	28.3			
FH (60°-80°)	12453.6	41.6			G5
FVH (80°-90°)	570.1	1.9			G4/750
BL (0°-30°)	1441.8	4.8	B3/2500		
BM (30°-60°)	3188.7	10.6	B3/5000		
BH (60°-80°)	1917.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	224.6	0.7			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°	45°	46°	55°	65°	75°
0°	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0
2.5°	3140.3	3160.8	3141.9	3124.6	3116.7	3096.1	3094.6	3081.9	3074.1	3052.0
5°	3359.7	3386.5	3354.9	3320.2	3288.7	3238.2	3231.9	3195.6	3154.5	3107.2
7.5°	3607.4	3631.1	3594.8	3542.7	3487.5	3403.9	3402.3	3336.0	3271.3	3190.8
10°	3823.6	3855.2	3806.3	3735.3	3665.8	3571.1	3560.1	3484.3	3402.3	3298.1
12.5°	4014.6	4036.7	3989.3	3902.5	3822.1	3727.4	3713.2	3629.5	3538.0	3419.6
15°	4166.1	4194.5	4131.4	4038.2	3953.0	3859.9	3847.3	3771.6	3680.0	3555.4
17.5°	4265.5	4289.2	4224.5	4120.3	4038.2	3960.9	3951.5	3888.3	3807.8	3681.6
20°	4303.4	4328.6	4260.8	4155.0	4079.3	4019.3	4014.6	3968.8	3913.6	3798.4
22.5°	4341.2	4364.9	4276.5	4166.1	4099.8	4061.9	4060.3	4030.4	4008.3	3913.6
25°	4494.3	4500.6	4382.3	4222.9	4128.2	4095.1	4093.5	4091.9	4101.4	4027.2
27.5°	4626.9	4625.3	4524.3	4374.4	4227.6	4158.2	4156.6	4172.4	4202.4	4140.8
30°	4821.0	4803.6	4683.7	4527.4	4393.3	4286.0	4276.5	4262.3	4286.0	4237.1
32.5°	5232.8	5177.6	4983.5	4705.8	4530.6	4448.5	4435.9	4347.5	4357.0	4327.0
35°	5823.0	5750.4	5491.6	5043.5	4701.0	4584.3	4577.9	4465.9	4447.0	4420.1
37.5°	6525.3	6435.3	6133.9	5532.7	4994.5	4742.1	4732.6	4631.6	4554.3	4525.9
40°	7230.7	7117.0	6867.7	6129.2	5426.9	5005.6	4975.6	4822.5	4734.2	4686.8
42.5°	7915.5	7820.8	7607.8	6798.3	5960.3	5390.6	5324.4	5062.4	4996.1	4951.9
45°	8521.5	8436.3	8280.1	7513.1	6585.2	5914.6	5849.9	5422.2	5401.7	5401.7
47.5°	9013.9	8994.9	8829.2	8242.2	7322.2	6511.1	6399.0	5922.4	5977.7	6062.9
50°	9559.9	9507.8	9331.0	8960.2	8188.5	7194.4	7102.8	6536.3	6743.0	6976.6
52.5°	10061.7	10090.1	9892.8	9708.2	9166.9	7956.6	7795.6	7260.6	7707.2	8093.8
55°	10577.7	10579.3	10524.1	10498.8	10192.7	8799.2	8622.5	8131.7	8841.8	9321.6
57.5°	11062.2	11065.3	11147.4	11369.9	11382.5	9771.3	9570.9	9201.6	10102.7	10591.9
60°	11494.6	11516.7	11740.7	12261.5	12428.8	10885.4	10696.1	10465.7	11406.2	11898.5
62.5°	11639.7	11720.2	12218.9	12959.0	13462.4	12252.0	12065.8	11928.5	12775.9	13233.6
65°	11393.6	11578.2	12542.4	13535.0	14526.0	13875.8	13691.2	13541.3	14199.3	14630.2
67.5°	10789.2	11027.5	12523.5	14139.4	15816.9	15829.5	15657.5	15305.6	15725.3	15891.0
70°	9196.9	9553.6	11420.4	14365.0	17298.7	18501.1	18335.4	17429.6	17248.2	16446.5
72.5°	5925.6	6405.3	8409.5	12507.7	17628.5	21015.0	21005.5	19347.0	17729.5	15367.1
75°	2161.9	2455.5	3907.3	7850.8	14797.4	20887.1	20948.7	19018.7	16184.5	11870.1
77.5°	787.4	861.6	1275.1	3017.2	9100.6	16759.0	16886.8	15204.6	11519.8	5957.2
80°	413.5	454.5	653.3	1170.9	3899.4	9952.8	10153.2	9035.9	5414.3	1794.2
82.5°	228.8	247.8	366.1	636.0	1756.4	4256.0	4375.9	3569.6	1904.7	760.6
85°	123.1	131.0	172.0	347.2	858.5	1475.5	1508.6	1066.8	759.0	446.6
87.5°	36.3	44.2	56.8	110.5	336.1	331.4	339.3	211.5	299.8	225.7
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°
3022.0	0°	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0	3022.0
3045.6	2.5°	3036.2	3031.4	3014.1	3006.2	2996.7	2995.2	3003.0	3004.6	3006.2	3007.8
3080.4	5°	3064.6	3048.8	3033.0	3023.6	3026.7	3028.3	3044.1	3055.1	3063.0	3069.3
3145.1	7.5°	3119.8	3107.2	3080.4	3078.8	3083.5	3097.7	3118.2	3143.5	3157.7	3168.7
3228.7	10°	3201.9	3178.2	3146.6	3151.4	3160.8	3181.4	3224.0	3244.5	3268.2	3288.7
3331.3	12.5°	3285.5	3265.0	3228.7	3231.9	3247.6	3283.9	3325.0	3350.2	3366.0	3381.8
3441.7	15°	3394.4	3358.1	3318.7	3318.7	3347.1	3386.5	3405.4	3426.0	3435.4	3452.8
3560.1	17.5°	3506.4	3459.1	3407.0	3403.9	3438.6	3457.5	3468.6	3471.7	3474.9	3493.8
3675.3	20°	3618.5	3566.4	3492.2	3485.9	3493.8	3490.7	3489.1	3485.9	3490.7	3514.3
3793.6	22.5°	3728.9	3669.0	3566.4	3538.0	3515.9	3485.9	3484.3	3482.8	3485.9	3509.6
3921.5	25°	3858.3	3785.8	3648.5	3563.3	3489.1	3448.1	3452.8	3454.4	3457.5	3476.5
4054.0	27.5°	3998.8	3918.3	3724.2	3555.4	3421.2	3392.8	3384.9	3389.7	3400.7	3430.7
4186.6	30°	4139.2	4044.6	3793.6	3523.8	3336.0	3296.6	3271.3	3282.4	3317.1	3347.1
4301.8	32.5°	4267.1	4172.4	3848.9	3454.4	3227.1	3165.6	3132.4	3146.6	3181.4	3192.4
4429.6	35°	4417.0	4309.7	3872.5	3343.9	3108.8	3014.1	2969.9	2949.4	2966.7	2955.7
4579.5	37.5°	4584.3	4472.2	3869.4	3198.7	2969.9	2861.0	2799.5	2722.1	2685.9	2648.0
4800.4	40°	4832.0	4671.0	3831.5	3023.6	2797.9	2698.5	2588.0	2457.0	2375.0	2300.8
5157.1	42.5°	5169.7	4947.2	3762.1	2831.0	2603.8	2510.7	2360.8	2207.7	2078.3	1955.2
5698.4	45°	5673.1	5308.6	3675.3	2625.9	2393.9	2302.4	2139.8	1967.8	1821.1	1663.3
6466.9	47.5°	6399.0	5794.6	3593.2	2392.3	2173.0	2089.3	1942.6	1783.2	1609.6	1456.5
7577.8	50°	7396.3	6492.1	3517.5	2165.1	1955.2	1892.1	1775.3	1612.8	1437.6	1314.5
8879.7	52.5°	8665.1	7440.5	3485.9	1945.7	1751.6	1728.0	1634.9	1483.4	1317.7	1213.5
10397.8	55°	10121.7	8575.2	3485.9	1735.9	1573.3	1581.2	1516.5	1376.1	1232.5	1139.4
11963.2	57.5°	11608.2	9724.0	3422.8	1541.8	1421.8	1455.0	1413.9	1290.8	1161.4	1065.2
13609.2	60°	12977.9	10686.6	3167.2	1365.0	1287.7	1339.8	1312.9	1207.2	1049.4	968.9
14985.2	62.5°	14030.5	11229.4	2674.8	1224.6	1177.2	1237.2	1223.0	1096.7	1028.9	995.8
16115.1	65°	14557.6	11141.1	2045.2	1099.9	1084.1	1177.2	1147.2	1142.5	1088.9	1051.0
16482.8	67.5°	14234.1	10380.5	1483.4	1008.4	1030.5	1122.0	1237.2	1256.1	1156.7	1082.5
15447.6	70°	12815.4	9004.4	1104.6	921.6	962.6	1123.6	1410.8	1314.5	1134.6	1047.8
12389.3	72.5°	9749.2	6714.6	856.9	830.1	874.2	1131.5	1488.1	1287.7	1071.5	1158.3
7718.3	75°	5575.3	3686.3	688.0	718.0	763.8	1057.3	1448.7	1218.3	1022.6	1063.6
3058.3	77.5°	2125.6	1417.1	568.1	607.6	613.9	923.2	1385.5	1213.5	973.7	950.0
916.9	80°	737.0	553.9	470.3	482.9	475.0	820.6	1328.7	1055.7	796.9	713.3
378.7	82.5°	301.4	276.2	372.4	356.6	337.7	637.5	1073.1	863.2	651.7	576.0
183.1	85°	131.0	175.2	246.2	216.2	195.7	441.9	860.0	730.6	550.7	475.0
60.0	87.5°	26.8	66.3	104.2	97.8	101.0	295.1	610.7	519.2	389.8	291.9
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>
3022.0
3014.1
3072.5
3171.9
3283.9
3388.1
3459.1
3500.1
3523.8
3525.4
3501.7
3460.7
3380.2
3231.9
2990.4
2671.6
2305.5
1944.2
1644.3
1439.2
1306.6
1205.6
1129.9
1049.4
956.3
984.7
1038.4
1069.9
1033.6
<i>1148.8</i>
1063.6
866.4
689.6
569.7
473.4
228.8
0.0

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