

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: P950520

Luminaire Tested: **GALN-SB4D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950520
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-SB4D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29495 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

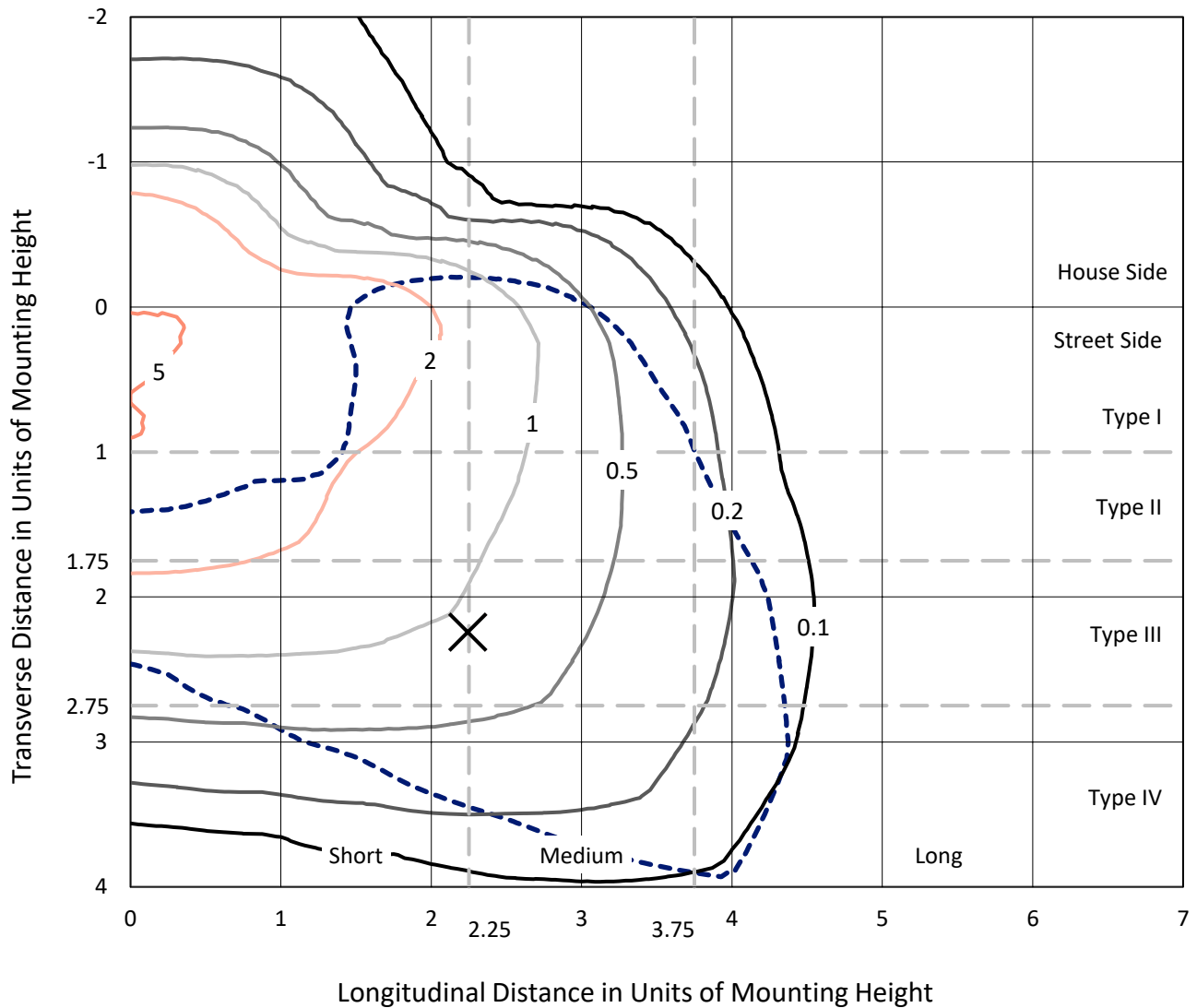
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

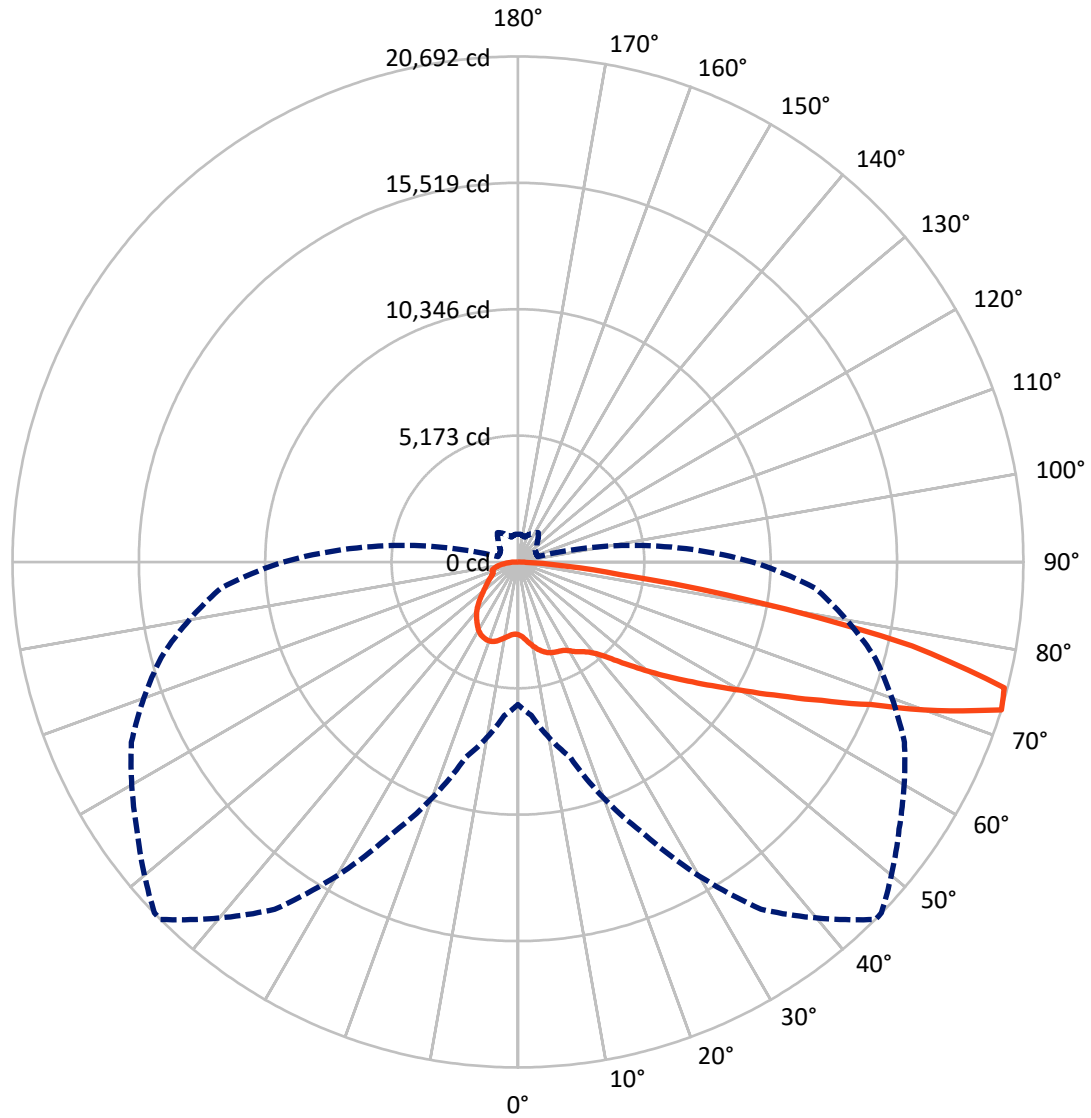
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6667.8	0.0	6667.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22827.2	0.0	22827.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	29495.0	0.0	29495.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	1.0
10°-20°	1009.7	3.4
20°-30°	1756.5	6.0
30°-40°	2518.0	8.5
40°-50°	3545.5	12.0
50°-60°	5430.6	18.4
60°-70°	7867.1	26.7
70°-80°	6282.3	21.3
80°-90°	782.4	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°	29495.0	100.0
0°-180°	29495.0	100.0



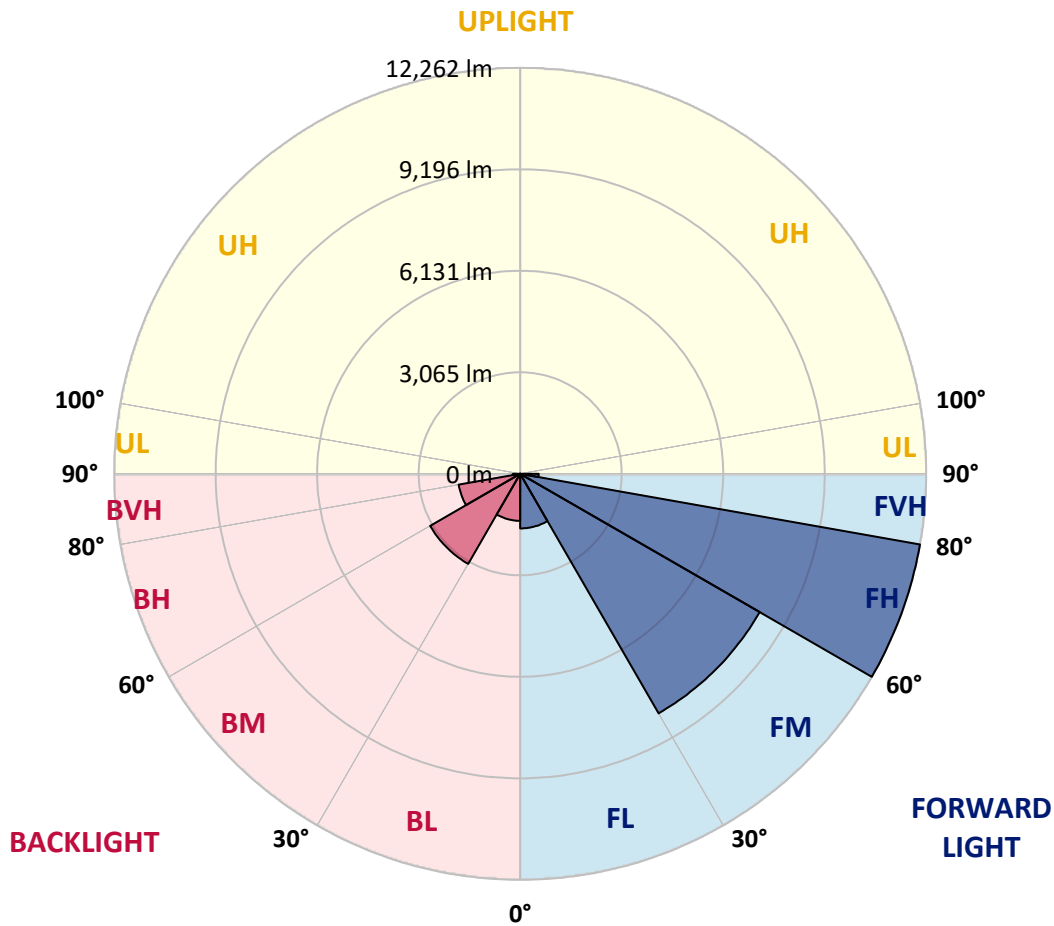
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.4	5.6			
FM (30°-60°)	8354.5	28.3			
FH (60°-80°)	12261.9	41.6			G5
FVH (80°-90°)	561.3	1.9			G4/750
BL (0°-30°)	1419.6	4.8	B3/2500		
BM (30°-60°)	3139.6	10.6	B3/5000		
BH (60°-80°)	1887.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	221.1	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°	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5
2.5°	3092.0	3112.2	3093.6	3076.5	3068.7	3048.5	3046.9	3034.5	3026.7	3005.0
5°	3308.0	3334.4	3303.3	3269.1	3238.1	3188.3	3182.1	3146.4	3106.0	3059.4
7.5°	3551.9	3575.2	3539.5	3488.2	3433.8	3351.5	3349.9	3284.7	3221.0	3141.7
10°	3764.8	3795.9	3747.7	3677.8	3609.4	3516.2	3505.3	3430.7	3349.9	3247.4
12.5°	3952.8	3974.5	3927.9	3842.5	3763.2	3670.0	3656.0	3573.7	3483.6	3367.0
15°	4102.0	4129.9	4067.8	3976.1	3892.2	3800.5	3788.1	3713.5	3623.4	3500.6
17.5°	4199.8	4223.1	4159.4	4056.9	3976.1	3900.0	3890.6	3828.5	3749.2	3624.9
20°	4237.1	4262.0	4195.2	4091.1	4016.5	3957.5	3952.8	3907.7	3853.4	3739.9
22.5°	4274.4	4297.7	4210.7	4102.0	4036.7	3999.4	3997.9	3968.3	3946.6	3853.4
25°	4425.1	4431.4	4314.8	4157.9	4064.7	4032.0	4030.5	4028.9	4038.3	3965.2
27.5°	4555.7	4554.1	4454.7	4307.1	4162.6	4094.2	4092.6	4108.2	4137.7	4077.1
30°	4746.8	4729.7	4611.6	4457.8	4325.7	4220.0	4210.7	4196.7	4220.0	4171.9
32.5°	5152.3	5097.9	4906.8	4633.3	4460.9	4380.1	4367.7	4280.6	4290.0	4260.4
35°	5733.4	5661.9	5407.1	4965.9	4628.7	4513.7	4507.5	4397.2	4378.5	4352.1
37.5°	6424.8	6336.3	6039.5	5447.5	4917.7	4669.1	4659.8	4560.3	4484.2	4456.2
40°	7119.4	7007.5	6762.0	6034.8	5343.4	4928.6	4899.0	4748.3	4661.3	4614.7
42.5°	7793.7	7700.5	7490.7	6693.6	5868.6	5307.7	5242.4	4984.5	4919.2	4875.7
45°	8390.4	8306.5	8152.6	7397.5	6483.9	5823.5	5759.8	5338.8	5318.6	5318.6
47.5°	8875.1	8856.5	8693.3	8115.3	7209.5	6410.9	6300.5	5831.3	5885.7	5969.6
50°	9412.7	9361.5	9187.4	8822.3	8062.5	7083.6	6993.5	6435.7	6639.3	6869.2
52.5°	9906.8	9934.8	9740.6	9558.8	9025.9	7834.1	7675.6	7148.9	7588.6	7969.3
55°	10414.9	10416.5	10362.1	10337.2	10035.8	8663.8	8489.8	8006.6	8705.8	9178.1
57.5°	10891.9	10895.0	10975.8	11194.9	11207.4	9620.9	9423.6	9060.0	9947.2	10428.9
60°	11317.7	11339.4	11560.1	12072.8	12237.5	10717.9	10531.5	10304.6	11230.7	11715.4
62.5°	11460.6	11539.9	12030.8	12759.6	13255.2	12063.5	11880.1	11745.0	12579.3	13029.9
65°	11218.2	11400.0	12349.4	13326.7	14302.5	13662.3	13480.5	13332.9	13980.8	14405.0
67.5°	10623.1	10857.8	12330.7	13921.8	15573.4	15585.9	15416.5	15070.0	15483.3	15646.5
70°	9055.4	9406.5	11244.6	14144.0	17032.4	18216.4	18053.3	17161.4	16982.7	16193.4
72.5°	5834.4	6306.8	8280.0	12315.2	17357.2	20691.6	20682.2	19049.2	17456.6	15130.6
75°	2128.7	2417.7	3847.1	7730.0	14569.7	20565.7	20626.3	18726.0	15935.5	11687.5
77.5°	775.3	848.4	1255.4	2970.8	8960.6	16501.0	16626.9	14970.6	11342.5	5865.5
80°	407.1	447.5	643.3	1152.9	3839.4	9799.6	9997.0	8896.9	5331.0	1766.6
82.5°	225.3	243.9	360.5	626.2	1729.3	4190.5	4308.6	3514.6	1875.4	748.9
85°	121.2	129.0	169.4	341.8	845.3	1452.8	1485.4	1050.3	747.4	439.7
87.5°	35.7	43.5	55.9	108.8	331.0	326.3	334.1	208.2	295.2	222.2
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°
2975.5	0°	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5	2975.5
2998.8	2.5°	2989.5	2984.8	2967.7	2959.9	2950.6	2949.1	2956.8	2958.4	2959.9	2961.5
3033.0	5°	3017.4	3001.9	2986.3	2977.0	2980.1	2981.7	2997.2	3008.1	3015.9	3022.1
3096.7	7.5°	3071.8	3059.4	3033.0	3031.4	3036.1	3050.1	3070.3	3095.1	3109.1	3120.0
3179.0	10°	3152.6	3129.3	3098.2	3102.9	3112.2	3132.4	3174.4	3194.6	3217.9	3238.1
3280.0	12.5°	3235.0	3214.8	3179.0	3182.1	3197.7	3233.4	3273.8	3298.7	3314.2	3329.7
3388.8	15°	3342.2	3306.4	3267.6	3267.6	3295.5	3334.4	3353.0	3373.2	3382.6	3399.7
3505.3	17.5°	3452.5	3405.9	3354.6	3351.5	3385.7	3404.3	3415.2	3418.3	3421.4	3440.0
3618.7	20°	3562.8	3511.5	3438.5	3432.3	3440.0	3436.9	3435.4	3432.3	3436.9	3460.2
3735.3	22.5°	3671.6	3612.5	3511.5	3483.6	3461.8	3432.3	3430.7	3429.2	3432.3	3455.6
3861.1	25°	3799.0	3727.5	3592.3	3508.4	3435.4	3395.0	3399.7	3401.2	3404.3	3423.0
3991.6	27.5°	3937.3	3858.0	3666.9	3500.6	3368.6	3340.6	3332.8	3337.5	3348.4	3377.9
4122.2	30°	4075.5	3982.3	3735.3	3469.6	3284.7	3245.8	3221.0	3231.8	3266.0	3295.5
4235.6	32.5°	4201.4	4108.2	3789.6	3401.2	3177.5	3116.9	3084.2	3098.2	3132.4	3143.3
4361.4	35°	4349.0	4243.3	3813.0	3292.4	3060.9	2967.7	2924.2	2904.0	2921.1	2910.2
4509.0	37.5°	4513.7	4403.4	3809.8	3149.5	2924.2	2817.0	2756.4	2680.3	2644.5	2607.2
4726.6	40°	4757.6	4599.2	3772.6	2977.0	2754.8	2656.9	2548.2	2419.2	2338.4	2265.4
5077.7	42.5°	5090.2	4871.1	3704.2	2787.5	2563.7	2472.0	2324.4	2173.7	2046.3	1925.1
5610.7	45°	5585.8	5226.9	3618.7	2585.5	2357.1	2267.0	2106.9	1937.6	1793.1	1637.7
6367.4	47.5°	6300.5	5705.4	3537.9	2355.5	2139.5	2057.2	1912.7	1755.8	1584.8	1434.1
7461.2	50°	7282.5	6392.2	3463.4	2131.8	1925.1	1863.0	1748.0	1588.0	1415.5	1294.3
8743.1	52.5°	8531.8	7326.0	3432.3	1915.8	1724.7	1701.4	1609.7	1460.5	1297.4	1194.8
10237.8	55°	9965.9	8443.2	3432.3	1709.1	1549.1	1556.9	1493.2	1354.9	1213.5	1121.8
11779.1	57.5°	11429.5	9574.3	3370.1	1518.0	1399.9	1432.6	1392.2	1271.0	1143.6	1048.8
13399.7	60°	12778.2	10522.1	3118.4	1344.0	1267.9	1319.2	1292.7	1188.6	1033.3	954.0
14754.6	62.5°	13814.6	11056.6	2633.6	1205.7	1159.1	1218.2	1204.2	1079.9	1013.1	980.4
15867.1	65°	14333.5	10969.6	2013.7	1083.0	1067.4	1159.1	1129.6	1124.9	1072.1	1034.8
16229.1	67.5°	14015.0	10220.7	1460.5	992.9	1014.6	1104.7	1218.2	1236.8	1138.9	1065.9
15209.9	70°	12618.2	8865.8	1087.6	907.4	947.8	1106.3	1389.1	1294.3	1117.2	1031.7
12198.7	72.5°	9599.2	6611.3	843.7	817.3	860.8	1114.1	1465.2	1267.9	1055.0	1140.5
7599.5	75°	5489.5	3629.6	677.4	707.0	752.0	1041.0	1426.4	1199.5	1006.8	1047.2
3011.2	77.5°	2092.9	1395.3	559.4	598.2	604.4	909.0	1364.2	1194.8	958.7	935.4
902.7	80°	725.6	545.4	463.0	475.5	467.7	808.0	1308.3	1039.5	784.7	702.3
372.9	82.5°	296.8	271.9	366.7	351.2	332.5	627.7	1056.6	849.9	641.7	567.1
180.2	85°	129.0	172.5	242.4	212.9	192.7	435.1	846.8	719.4	542.3	467.7
59.0	87.5°	26.4	65.3	102.5	96.3	99.4	290.6	601.3	511.2	383.8	287.4
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>
2975.5
2967.7
3025.2
3123.1
3233.4
3335.9
3405.9
3446.3
3469.6
3471.1
3447.8
3407.4
3328.2
3182.1
2944.4
2630.5
2270.1
1914.2
1619.0
1417.0
1286.5
1187.1
1112.5
1033.3
941.6
969.6
1022.4
1053.5
1017.7
<i>1131.1</i>
1047.2
853.0
679.0
560.9
466.1
225.3
0.0

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