

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: P941707

Luminaire Tested: **GALN-SB5B-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941707
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-SB5B-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27227 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

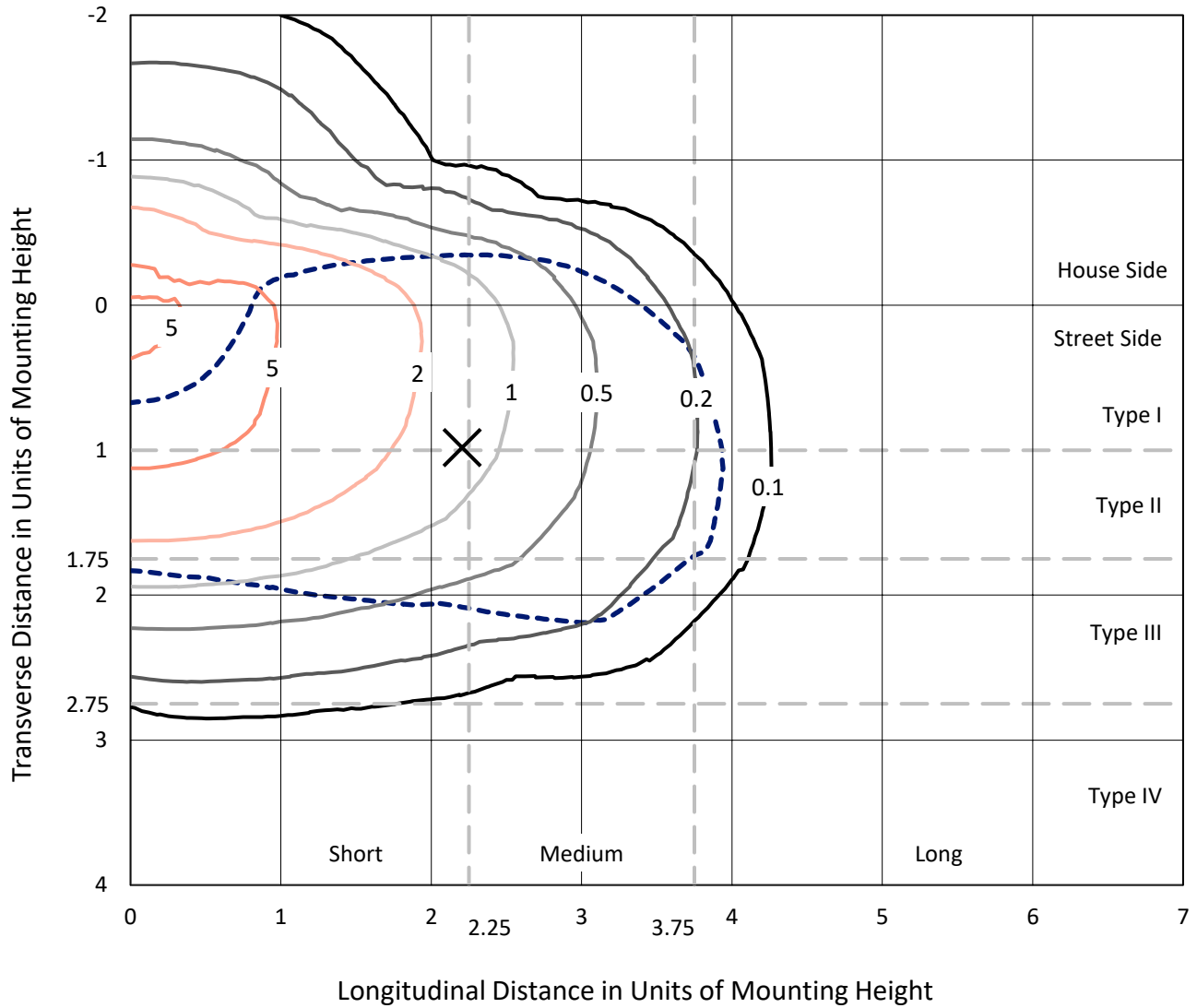
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

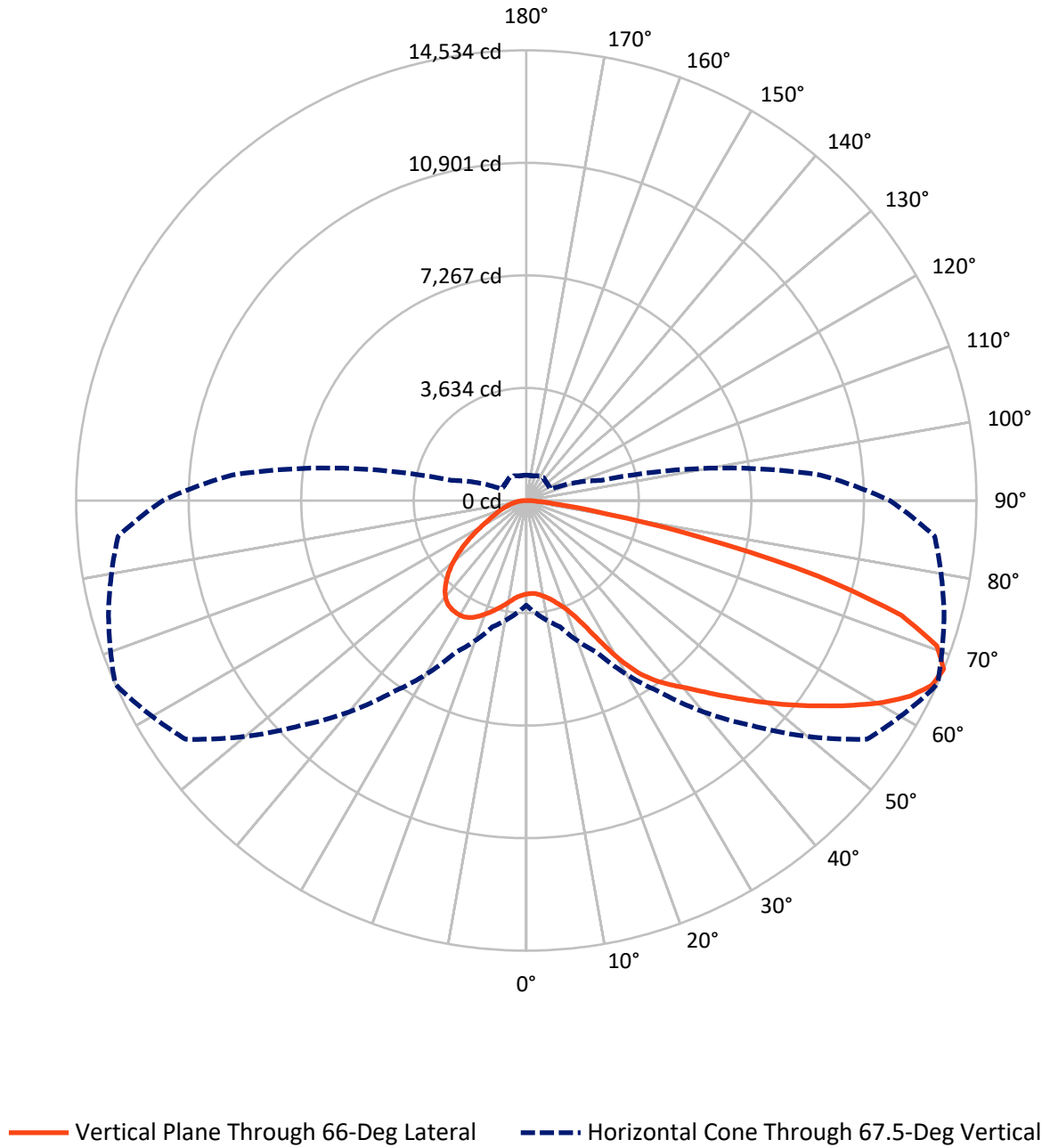
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6769.9	0.0	6769.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20457.1	0.0	20457.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	27227.0	0.0	27227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.1
10°-20°	989.2	3.6
20°-30°	1906.6	7.0
30°-40°	3343.0	12.3
40°-50°	4969.9	18.3
50°-60°	6299.9	23.1
60°-70°	6164.3	22.6
70°-80°	2940.4	10.8
80°-90°	314.3	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°	27227.0	100.0
0°-180°	27227.0	100.0

Coefficient of Utilization



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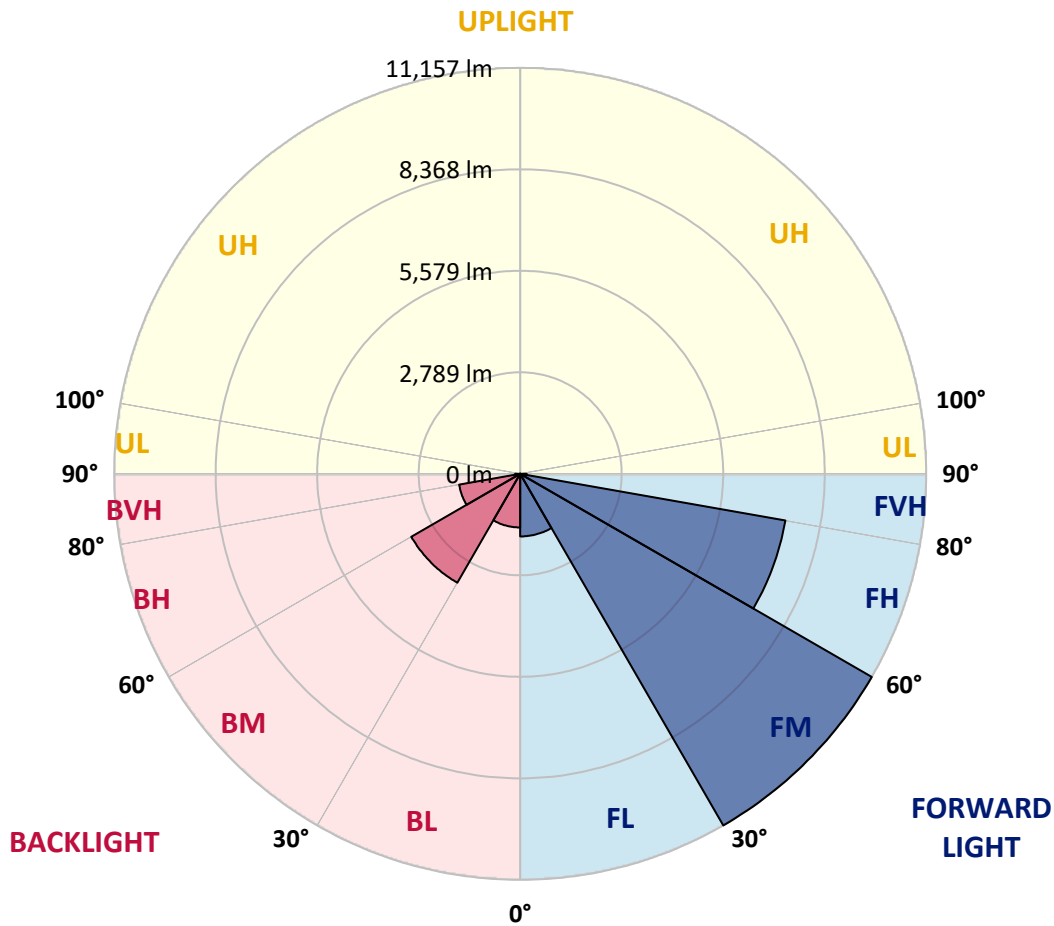
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.5	6.3			
FM (30°-60°)	11157.4	41.0			
FH (60°-80°)	7401.0	27.2			G3/7500
FVH (80°-90°)	178.2	0.7			G2/225
BL (0°-30°)	1474.7	5.4	B3/2500		
BM (30°-60°)	3455.4	12.7	B3/5000		
BH (60°-80°)	1703.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	136.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8
2.5°	2988.4	3005.5	3001.2	2994.1	2992.7	2995.5	2999.8	3004.1	3002.7	3009.8
5°	2979.8	2996.9	2995.5	2995.5	3001.2	3012.7	3019.8	3027.0	3019.8	3028.4
7.5°	2985.5	2998.4	3004.1	3009.8	3024.1	3045.6	3062.7	3078.5	3069.9	3079.9
10°	3058.5	3068.5	3074.2	3074.2	3084.2	3108.5	3125.7	3154.3	3147.2	3162.9
12.5°	3191.5	3201.5	3201.5	3195.8	3202.9	3218.7	3224.4	3255.9	3243.0	3268.7
15°	3354.6	3374.6	3358.9	3348.9	3351.7	3367.5	3366.0	3390.3	3377.5	3398.9
17.5°	3534.8	3560.6	3534.8	3533.4	3527.7	3544.8	3546.3	3567.7	3544.8	3560.6
20°	3748.0	3783.7	3762.3	3769.4	3756.6	3763.7	3770.9	3802.3	3766.6	3778.0
22.5°	4048.4	4091.3	4068.4	4095.6	4087.0	4081.3	4079.9	4135.6	4079.9	4084.1
25°	4486.1	4537.6	4497.6	4534.8	4534.8	4553.4	4574.8	4646.3	4553.4	4526.2
27.5°	5132.7	5184.2	5105.5	5128.4	5121.3	5167.0	5144.2	5321.5	5221.4	5177.1
30°	5910.9	6002.5	5853.7	5848.0	5840.8	5913.8	5946.7	6064.0	5962.4	5918.1
32.5°	6752.1	6847.9	6670.5	6619.0	6591.9	6636.2	6609.0	6703.4	6633.3	6564.7
35°	7641.9	7736.3	7567.5	7467.3	7358.6	7265.6	7168.4	7192.7	7126.9	7022.4
37.5°	8483.0	8656.1	8477.3	8370.0	8169.7	7988.0	7716.2	7603.2	7541.7	7445.9
40°	9339.9	9438.6	9302.7	9211.1	8993.7	8709.0	8274.1	8035.2	7952.3	7859.3
42.5°	9970.7	10065.2	9992.2	9929.3	9759.0	9428.6	8866.4	8567.4	8447.2	8342.8
45°	10471.4	10541.5	10495.7	10518.6	10445.7	10125.2	9480.1	9138.2	9013.7	8886.4
47.5°	10673.1	10747.5	10820.5	10956.4	11080.8	10844.8	10139.5	9756.2	9624.6	9494.4
50°	10650.2	10726.1	10937.8	11226.7	11613.0	11534.3	10834.8	10414.2	10292.6	10143.8
52.5°	10467.1	10553.0	10824.8	11305.4	11920.5	12050.7	11542.9	11093.7	10979.3	10801.9
55°	9986.5	10038.0	10445.7	11126.6	11993.5	12411.2	12236.7	11817.6	11703.1	11455.6
57.5°	9095.3	9169.7	9763.3	10644.5	11810.4	12655.8	12846.1	12578.6	12468.4	12112.2
60°	7932.3	8051.0	8730.5	9834.8	11344.0	12654.4	13399.7	13326.8	13235.2	12758.8
62.5°	6616.2	6753.5	7407.2	8690.4	10528.6	12295.3	13745.9	13953.3	13906.1	13355.4
65°	5081.2	5175.6	5826.5	7209.8	9259.8	11524.3	13786.0	14381.0	14389.6	13808.8
67.5°	3383.2	3655.0	4220.0	5410.2	7560.3	10264.0	13434.0	14451.1	14534.1	13964.8
70°	1650.8	2008.5	2562.1	3516.2	5410.2	8331.4	12514.2	13876.1	14060.6	13509.9
72.5°	685.2	801.1	1102.9	1735.2	3105.7	5622.0	10666.0	12316.8	12658.7	11970.6
75°	462.1	500.7	630.9	889.8	1414.8	2772.4	7691.9	9184.0	9734.7	9040.9
77.5°	356.2	380.5	459.2	622.3	841.1	1048.6	4117.0	5534.7	5819.4	5387.3
80°	280.4	299.0	343.3	453.5	596.5	560.8	1403.3	2507.7	2672.2	2241.6
82.5°	243.2	250.3	246.0	307.6	396.3	327.6	460.6	925.5	1021.4	741.0
85°	176.0	196.0	204.6	190.3	210.3	165.9	188.8	327.6	360.5	321.9
87.5°	71.5	105.9	130.2	123.0	77.2	47.2	58.7	95.8	110.2	120.2
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°
3019.8	0°	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8
3021.3	2.5°	3022.7	3032.7	3039.9	3048.4	3054.2	3062.7	3079.9	3089.9	3091.4	3098.5
3044.2	5°	3049.9	3064.2	3079.9	3102.8	3128.6	3150.0	3182.9	3205.8	3214.4	3221.5
3099.9	7.5°	3108.5	3128.6	3157.2	3197.2	3234.4	3263.0	3303.1	3330.3	3357.4	3367.5
3188.6	10°	3195.8	3224.4	3265.9	3320.2	3360.3	3397.5	3439.0	3461.9	3489.0	3500.5
3294.5	12.5°	3304.5	3334.5	3388.9	3464.7	3501.9	3527.7	3542.0	3536.3	3542.0	3552.0
3421.8	15°	3429.0	3461.9	3523.4	3604.9	3630.7	3607.8	3576.3	3547.7	3543.4	3546.3
3576.3	17.5°	3576.3	3600.6	3672.2	3740.8	3722.2	3627.8	3559.1	3513.4	3490.5	3483.3
3773.7	20°	3782.3	3782.3	3841.0	3883.9	3759.4	3599.2	3491.9	3417.5	3370.3	3350.3
4042.7	22.5°	4032.6	4009.8	4046.9	4016.9	3752.3	3519.1	3370.3	3241.6	3170.0	3141.4
4418.9	25°	4350.2	4323.0	4313.0	4127.1	3700.8	3391.8	3150.0	2994.1	2931.1	2915.4
4961.1	27.5°	4829.4	4760.8	4630.6	4187.1	3606.3	3191.5	2892.5	2748.0	2712.3	2713.7
5657.7	30°	5467.5	5330.1	5011.1	4197.2	3451.9	2908.3	2629.3	2526.3	2509.1	2516.3
6242.8	32.5°	6058.3	5928.1	5400.2	4151.4	3214.4	2630.7	2393.3	2324.6	2298.9	2307.4
6689.1	35°	6521.8	6486.0	5760.7	4087.0	2922.6	2370.4	2181.5	2122.9	2072.8	2061.4
7109.7	37.5°	6959.5	6945.2	6031.1	3996.9	2633.6	2185.8	2011.3	1934.1	1861.1	1821.1
7574.6	40°	7440.2	7425.8	6208.5	3858.1	2377.5	2025.6	1858.2	1756.7	1666.6	1593.6
8101.1	42.5°	7980.9	7896.5	6292.9	3659.3	2160.1	1889.7	1733.8	1596.5	1477.7	1410.5
8696.1	45°	8571.7	8381.4	6291.4	3406.1	1977.0	1765.3	1600.8	1406.2	1296.1	1233.1
9307.0	47.5°	9198.3	8844.9	6214.2	3125.7	1799.6	1627.9	1394.8	1246.0	1173.0	1134.4
9970.7	50°	9844.9	9278.4	6082.6	2803.8	1617.9	1472.0	1266.0	1164.4	1108.7	1072.9
10628.8	52.5°	10452.8	9671.8	5923.8	2439.0	1433.4	1320.4	1208.8	1130.1	1071.5	1031.4
11266.8	55°	11017.9	10010.8	5699.2	2065.7	1283.2	1218.8	1181.6	1115.8	1048.6	1001.4
11914.8	57.5°	11520.0	10231.1	5311.5	1715.2	1175.9	1148.7	1153.0	1091.5	1014.2	974.2
12552.8	60°	11937.7	10392.7	4737.9	1390.5	1088.6	1080.0	1108.7	1045.7	955.6	909.8
13092.1	62.5°	12188.1	10389.9	4034.1	1138.7	1014.2	1017.1	1050.0	988.5	896.9	854.0
13374.0	65°	12166.6	10135.3	3261.6	974.2	942.7	945.6	988.5	925.5	848.3	822.6
13232.3	67.5°	11736.0	9514.4	2502.0	866.9	864.0	876.9	927.0	882.6	818.3	815.4
12388.3	70°	10570.1	8225.5	1802.5	781.1	782.5	801.1	866.9	855.5	802.5	808.2
10415.6	72.5°	8475.8	6271.4	1210.2	690.9	692.4	722.4	809.7	834.0	786.8	862.6
7390.1	75°	5644.8	3911.0	778.2	595.1	596.5	635.2	759.6	792.5	743.9	859.7
3845.2	77.5°	2712.3	1758.1	563.6	500.7	500.7	536.4	656.6	709.5	633.7	668.1
1236.0	80°	937.0	660.9	443.5	403.4	394.8	419.1	553.6	615.1	546.5	503.5
403.4	82.5°	369.1	343.3	356.2	313.3	284.7	300.4	430.6	507.8	402.0	363.4
227.5	85°	211.7	223.2	251.8	207.4	164.5	184.5	316.1	364.8	303.3	267.5
74.4	87.5°	57.2	78.7	115.9	107.3	74.4	78.7	150.2	201.7	174.5	134.5
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>
3019.8
3097.1
3220.1
3368.9
3506.2
3554.8
3556.3
3493.3
3346.0
3137.1
2918.3
2718.0
2540.6
2318.9
2070.0
1822.5
1600.8
1414.8
1230.2
1125.8
1060.0
1014.2
982.8
948.4
889.8
841.1
821.1
<i>819.7</i>
806.8
874.0
866.9
612.3
472.1
361.9
273.2
138.8
0.0

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