

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: P949792

Luminaire Tested: **GALN-SB4B-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16255 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

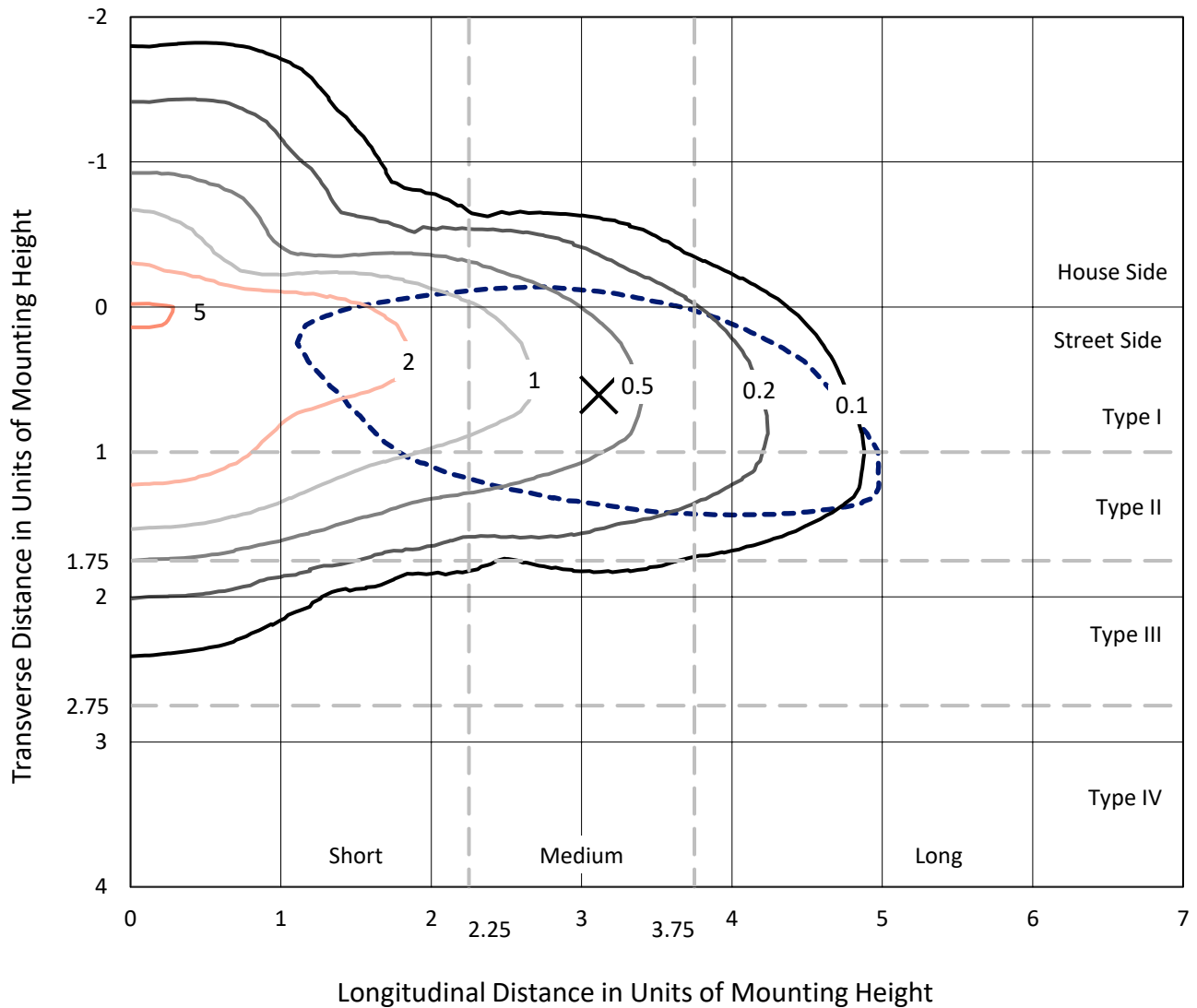
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

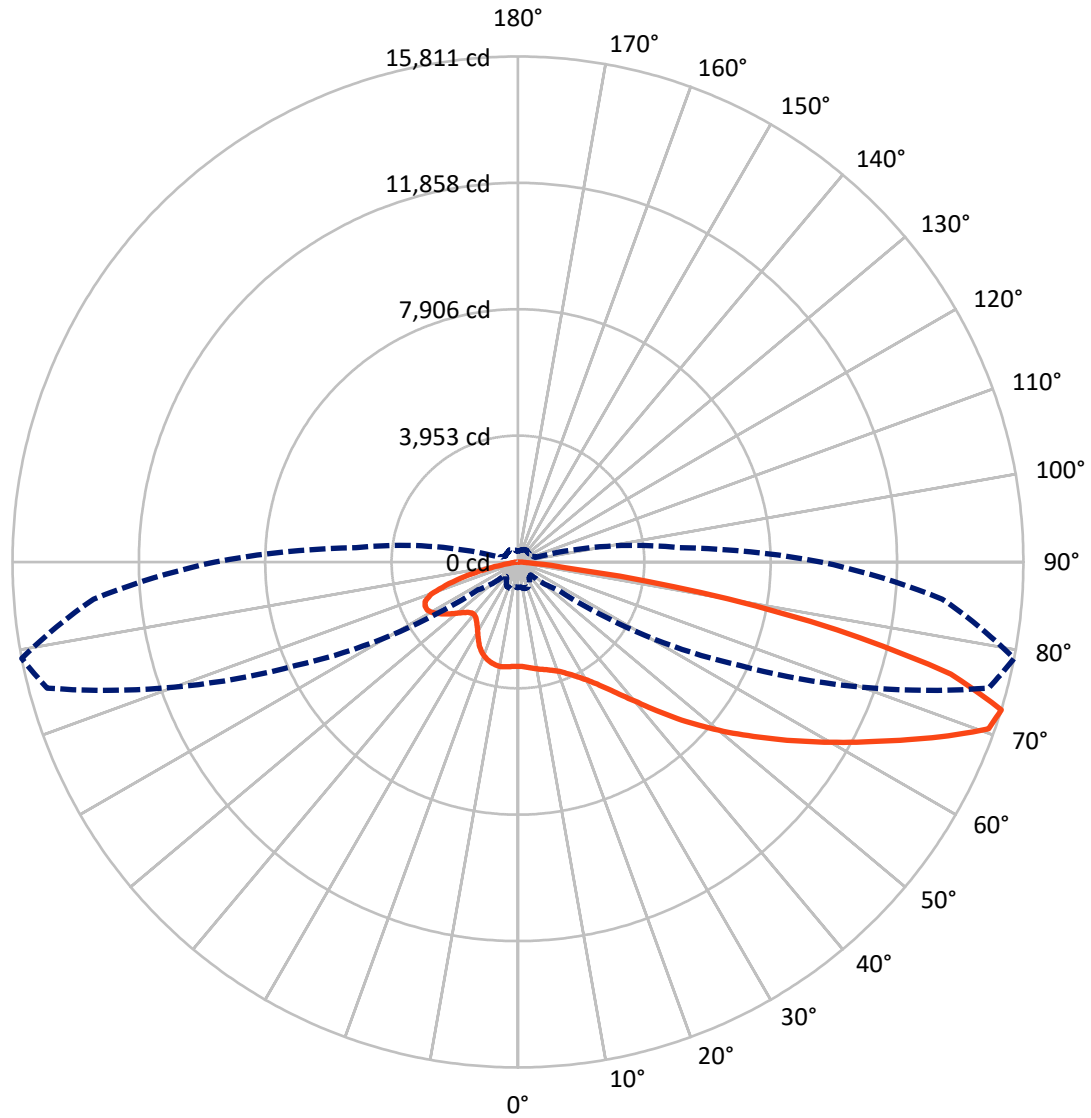
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3577.0	0.0	3577.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12678.0	0.0	12678.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	16255.0	0.0	16255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	1.8
10°-20°	774.4	4.8
20°-30°	1249.5	7.7
30°-40°	1875.4	11.5
40°-50°	2660.3	16.4
50°-60°	3359.7	20.7
60°-70°	3412.2	21.0
70°-80°	2325.6	14.3
80°-90°	301.7	1.9
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°	16255.0	100.0
0°-180°	16255.0	100.0

Coefficient of Utilization



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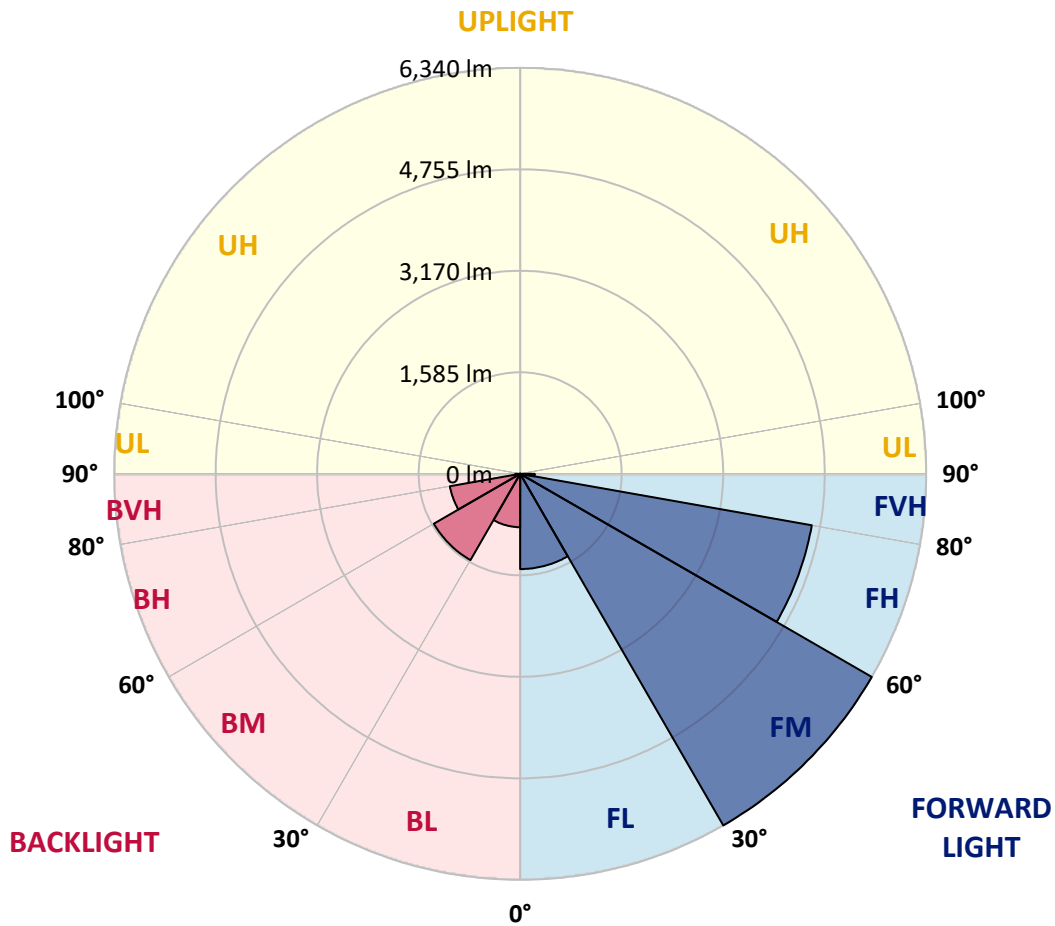
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.9	9.1			
FM (30°-60°)	6339.8	39.0			
FH (60°-80°)	4624.0	28.4			G2/5000
FVH (80°-90°)	227.3	1.4			G3/500
BL (0°-30°)	833.2	5.1	B2/1000		
BM (30°-60°)	1555.6	9.6	B2/2500		
BH (60°-80°)	1113.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	74.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
2.5°	3264.8	3249.3	3258.7	3255.3	3259.6	3264.8	3266.5	3269.1	3277.7	3276.8
5°	3257.9	3242.4	3255.3	3251.0	3262.2	3274.2	3284.5	3294.0	3307.7	3313.8
7.5°	3243.3	3232.9	3245.8	3258.7	3279.4	3297.4	3312.0	3333.5	3353.3	3356.8
10°	3158.1	3150.4	3180.5	3214.0	3270.8	3319.8	3351.6	3376.5	3398.0	3401.5
12.5°	3069.6	3060.1	3093.7	3139.2	3231.2	3319.8	3386.9	3419.5	3438.4	3449.6
15°	3055.0	3047.2	3066.1	3105.7	3182.2	3296.6	3410.9	3471.1	3487.5	3500.3
17.5°	3125.5	3110.8	3118.6	3132.3	3177.1	3275.1	3429.8	3529.6	3554.5	3568.3
20°	3288.8	3268.2	3256.2	3228.6	3220.9	3278.5	3428.1	3600.1	3632.8	3650.0
22.5°	3506.4	3492.6	3466.8	3397.2	3321.5	3320.6	3460.8	3690.4	3751.4	3767.8
25°	3769.5	3748.8	3716.2	3621.6	3476.3	3404.0	3515.8	3805.6	3907.9	3912.2
27.5°	4072.1	4041.2	3996.5	3871.8	3675.8	3534.7	3600.1	3938.0	4087.6	4085.9
30°	4391.1	4360.2	4312.9	4161.6	3914.8	3711.0	3717.0	4080.7	4300.8	4291.4
32.5°	4624.1	4600.9	4591.5	4474.5	4189.9	3919.1	3851.2	4238.9	4564.0	4555.4
35°	4803.0	4772.9	4784.1	4724.7	4490.0	4152.1	4015.4	4427.2	4883.8	4882.9
37.5°	4980.1	4953.5	4962.9	4923.4	4767.7	4447.9	4215.7	4657.7	5280.2	5299.1
40°	5141.8	5113.4	5151.2	5114.2	4983.5	4762.6	4443.6	4918.2	5739.3	5775.4
42.5°	5238.9	5216.6	5279.3	5280.2	5171.0	5028.3	4693.8	5205.4	6270.7	6351.5
45°	5272.4	5264.7	5359.3	5379.1	5336.9	5182.2	4919.1	5518.4	6843.3	6987.8
47.5°	5236.3	5221.7	5352.4	5425.5	5459.0	5254.4	5105.6	5857.1	7428.0	7639.5
50°	5054.1	5025.7	5220.0	5373.9	5493.4	5301.7	5293.9	6248.3	8092.7	8324.0
52.5°	4726.5	4705.0	4925.9	5193.3	5417.8	5324.9	5505.5	6675.7	8723.8	9023.0
55°	4307.7	4279.4	4522.7	4871.8	5229.5	5317.2	5717.0	7153.7	9468.4	9771.9
57.5°	3643.9	3587.2	3895.0	4307.7	4922.5	5307.7	5937.1	7629.2	10225.0	10588.7
60°	2675.8	2591.5	2969.0	3458.2	4322.3	5215.7	6209.7	8162.3	11133.0	11460.6
62.5°	1558.0	1509.0	1755.8	2212.3	3257.9	4674.0	6362.7	8782.3	12025.5	12369.4
65°	1209.8	1196.0	1217.5	1252.8	1813.4	3499.5	5890.7	9386.7	13160.5	13401.2
67.5°	1106.6	1096.3	1105.7	1039.5	920.0	1949.2	4660.3	9539.8	14376.3	14522.4
70°	983.6	971.6	1002.6	945.8	724.0	886.5	3011.1	8984.3	15343.6	15617.9
72.5°	801.4	787.6	859.8	834.0	609.6	569.2	1512.4	7664.5	15242.1	15811.3
75°	615.6	607.9	693.9	715.4	497.0	448.0	725.7	5697.2	13413.3	13986.8
77.5°	478.1	472.0	515.9	594.1	400.7	347.4	446.2	3613.8	10108.1	10208.7
80°	358.5	341.4	381.8	460.0	312.1	253.6	302.7	2107.4	6389.4	5791.8
82.5°	224.4	215.8	249.3	307.0	220.1	174.5	196.9	1164.2	2560.6	1508.1
85°	128.1	124.7	135.9	175.4	119.5	100.6	112.6	514.2	467.7	321.6
87.5°	51.6	49.9	61.9	78.2	43.9	37.0	39.6	123.8	103.2	95.4
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°
3263.0	0°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
3275.9	2.5°	3272.5	3272.5	3260.5	3241.5	3220.0	3206.3	3183.9	3177.9	3154.7	3147.8
3305.2	5°	3312.0	3305.2	3268.2	3214.9	3141.8	3074.7	3000.8	2954.4	2889.0	2865.8
3362.8	7.5°	3361.9	3343.0	3279.4	3162.4	3009.4	2858.9	2702.4	2583.8	2470.3	2429.9
3410.1	10°	3407.5	3380.8	3272.5	3067.9	2803.0	2542.5	2293.2	2118.6	1986.2	1932.0
3462.5	12.5°	3453.1	3404.0	3226.9	2910.5	2509.8	2156.4	1890.8	1754.9	1673.2	1607.9
3505.5	15°	3496.0	3427.3	3156.4	2699.9	2188.3	1829.7	1633.7	1525.3	1460.0	1417.0
3568.3	17.5°	3545.9	3447.0	3050.7	2432.4	1882.2	1603.6	1443.6	1378.3	1365.4	1360.2
3654.3	20°	3615.6	3465.1	2911.4	2133.2	1656.9	1423.0	1340.5	1334.4	1333.6	1331.0
3757.4	22.5°	3690.4	3486.6	2727.4	1861.5	1465.1	1310.4	1295.8	1283.7	1276.0	1275.1
3882.1	25°	3778.9	3493.5	2496.9	1638.8	1301.8	1257.1	1239.9	1221.8	1216.7	1216.7
4024.0	27.5°	3864.9	3470.3	2228.7	1445.4	1209.8	1208.1	1185.7	1179.7	1178.8	1181.4
4185.6	30°	3950.9	3426.4	1962.1	1266.5	1156.5	1156.5	1148.7	1153.0	1156.5	1165.1
4407.5	32.5°	4067.0	3380.0	1739.4	1134.1	1110.0	1101.4	1109.2	1117.8	1121.2	1132.4
4698.9	35°	4237.2	3347.3	1562.3	1061.9	1061.9	1050.7	1055.0	1053.3	1045.5	1040.4
5051.5	37.5°	4462.5	3345.6	1416.1	1028.4	1021.5	1019.8	1020.6	1009.4	979.3	943.2
5477.9	40°	4733.3	3392.0	1303.5	1005.1	1000.0	1010.3	1005.1	975.0	892.5	829.7
6002.4	42.5°	5097.0	3524.4	1231.3	976.8	992.2	1005.1	984.5	880.5	824.6	782.4
6600.0	45°	5525.2	3739.4	1194.3	946.7	977.6	993.1	893.4	847.8	803.1	752.3
7251.8	47.5°	6010.2	4010.2	1185.7	918.3	944.9	954.4	854.7	834.0	783.3	728.3
7907.0	50°	6538.1	4330.9	1208.9	884.8	897.7	865.0	841.8	822.9	770.4	716.2
8578.5	52.5°	7084.1	4684.3	1255.3	839.2	850.4	814.3	836.6	820.3	762.7	689.6
9272.4	55°	7620.6	5040.3	1300.1	785.9	802.2	768.7	822.0	810.0	727.4	644.9
10012.7	57.5°	8165.8	5394.5	1343.9	738.6	755.8	724.8	798.8	782.4	687.9	603.6
10820.9	60°	8732.4	5738.5	1364.5	693.0	705.1	684.4	763.5	735.2	643.1	561.5
11615.4	62.5°	9262.9	6024.8	1331.0	647.4	655.2	646.6	717.1	679.3	598.4	514.2
12443.4	65°	9795.1	6195.0	1227.8	602.7	604.5	600.2	651.7	619.1	546.0	472.9
13168.2	67.5°	10277.5	6290.5	1063.6	554.6	550.3	548.6	590.7	553.7	495.3	431.6
13719.4	70°	10379.8	6048.0	812.5	497.8	497.8	493.5	523.6	485.8	439.4	387.8
13324.7	72.5°	9480.4	5087.6	576.9	433.4	440.2	431.6	456.6	424.8	382.6	348.2
11483.8	75°	7644.7	3730.8	419.6	367.1	379.2	364.6	387.8	365.4	329.3	328.5
7913.8	77.5°	5252.7	2306.9	304.4	302.7	311.3	292.3	319.0	307.0	274.3	259.7
3444.5	80°	2241.6	920.0	221.8	233.9	233.9	216.7	247.6	251.1	222.7	215.8
664.6	82.5°	446.2	261.4	155.6	160.8	151.3	146.2	175.4	194.3	268.3	298.4
200.3	85°	134.1	96.3	93.7	87.7	77.4	78.2	103.2	195.2	240.8	137.6
66.2	87.5°	37.0	24.1	24.9	19.8	16.3	21.5	35.3	147.9	80.8	34.4
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>
3263.0
3159.0
2883.0
2435.0
1944.1
1629.4
1424.7
1363.7
1339.6
1284.6
1221.8
1188.3
1171.1
1141.8
1052.4
944.1
828.0
780.7
748.9
724.0
710.2
684.4
640.6
601.9
558.9
513.3
467.7
426.5
386.1
337.9
295.8
243.3
215.8
299.2
118.7
29.2
0.0

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