

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: P952913

Luminaire Tested: **GALN-SB6C-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

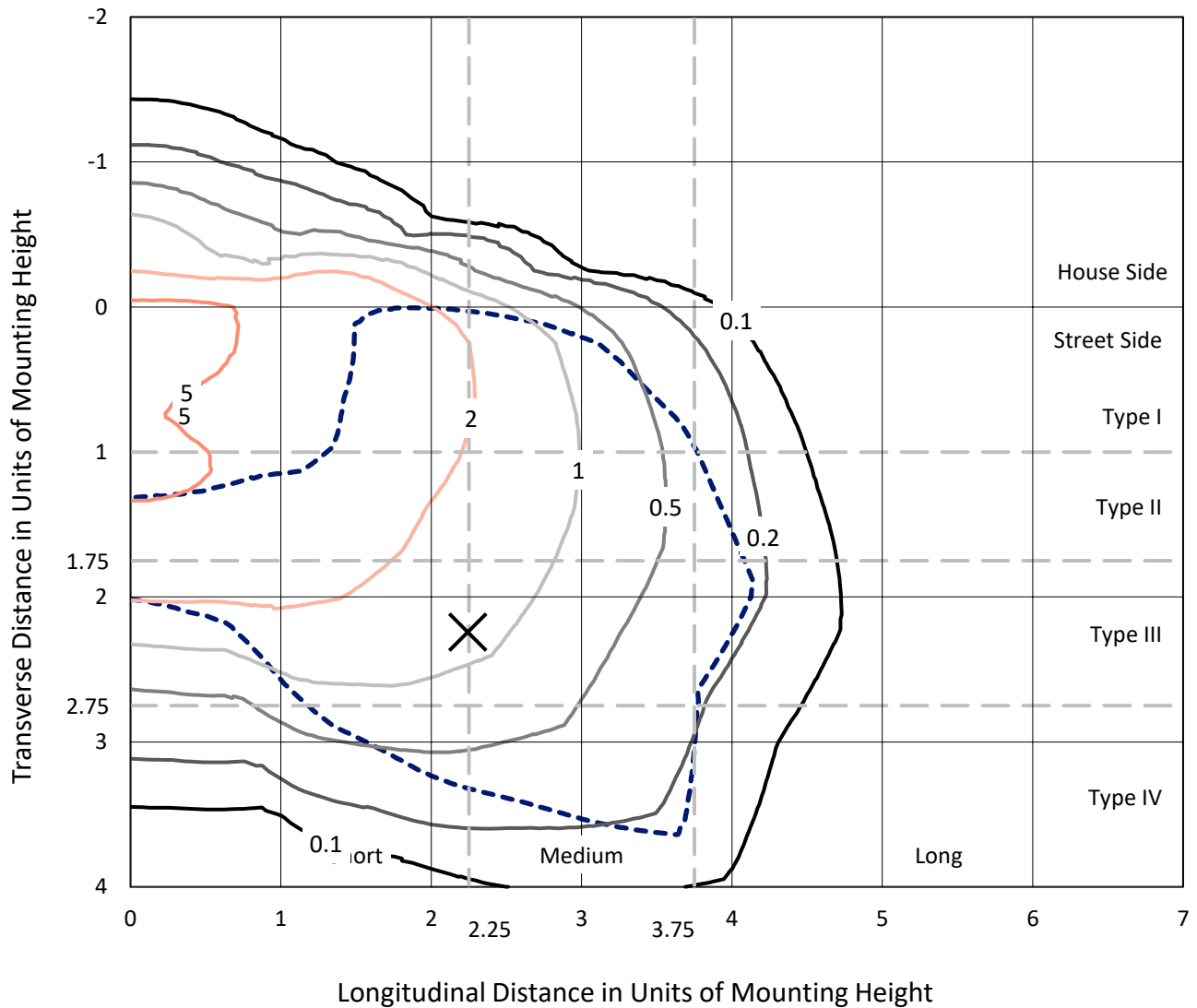
Lumens per Lamp: N/A  
Luminaire Lumens: 33461 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

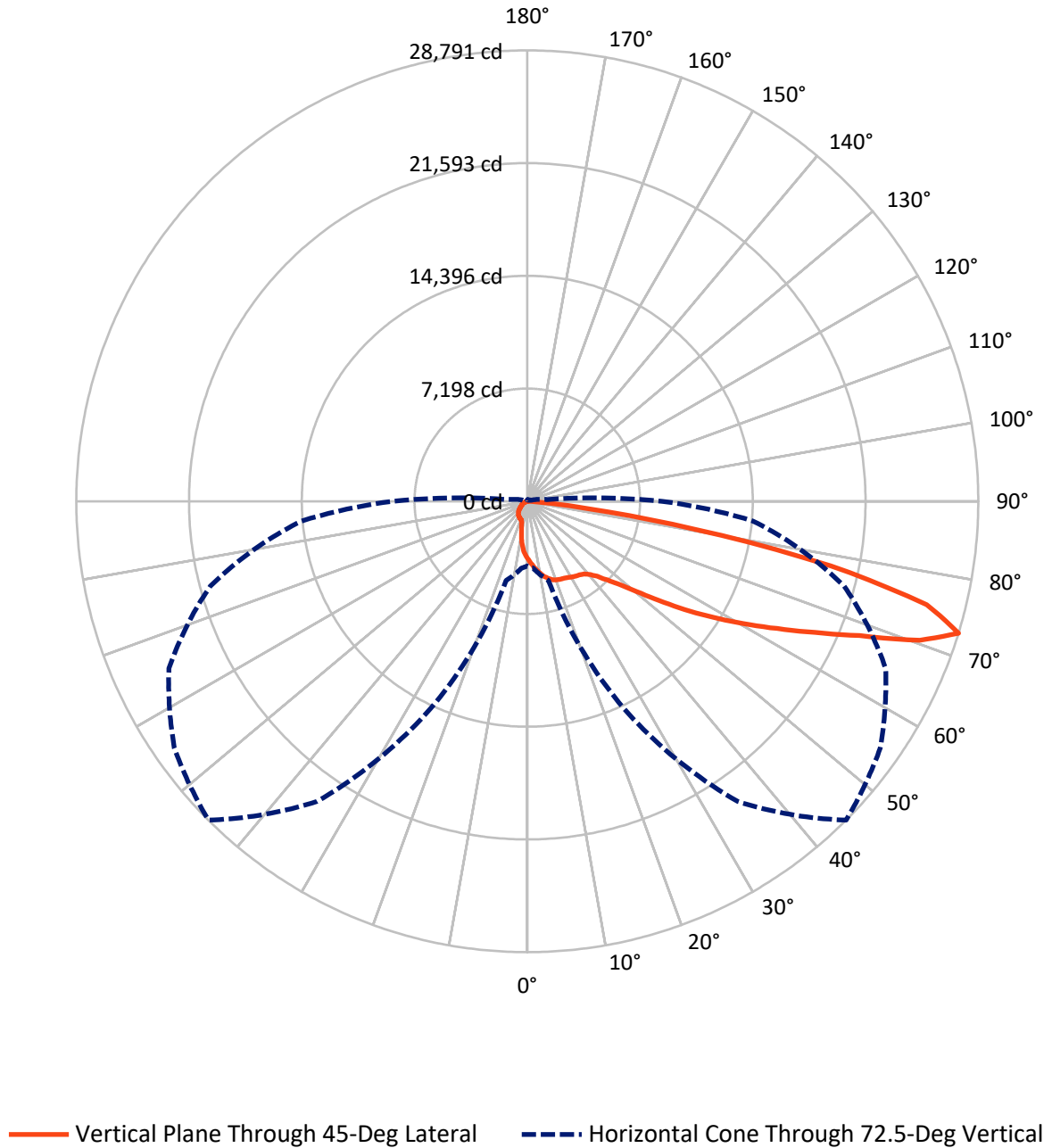
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3515.8	0.0	3515.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	29945.2	0.0	29945.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	33461.0	0.0	33461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.4	1.0
10°-20°	1009.4	3.0
20°-30°	1657.6	5.0
30°-40°	2350.9	7.0
40°-50°	3885.8	11.6
50°-60°	6980.4	20.9
60°-70°	9692.6	29.0
70°-80°	7030.7	21.0
80°-90°	508.3	1.5
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°	33461.0	100.0
0°-180°	33461.0	100.0

**Coefficient of Utilization**



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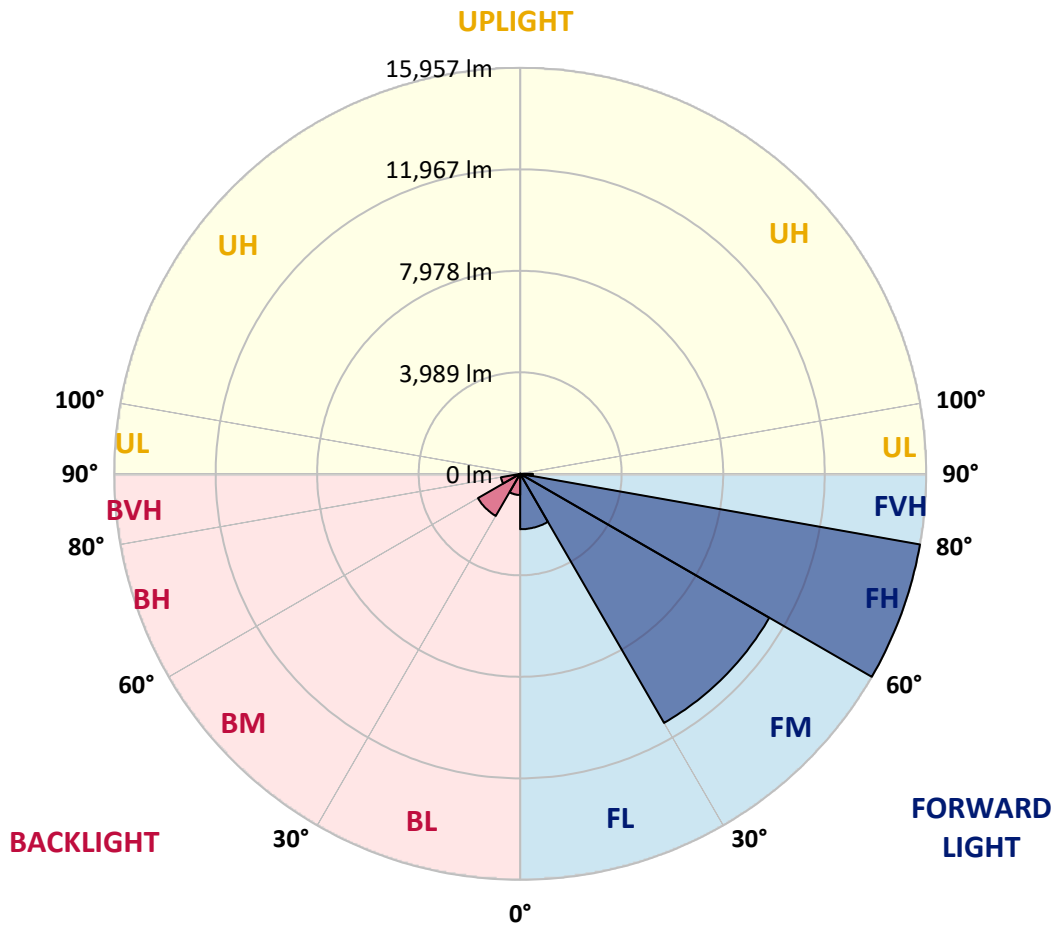
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.7	6.5			
FM (30°-60°)	11304.9	33.8			
FH (60°-80°)	15956.6	47.7			G5
FVH (80°-90°)	504.0	1.5			G4/750
BL (0°-30°)	832.8	2.5	B2/1000		
BM (30°-60°)	1912.1	5.7	B2/2500		
BH (60°-80°)	766.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7
2.5°	4003.7	4010.6	4006.0	3978.6	3932.9	3907.8	3894.1	3848.4	3818.7	3766.2
5°	4371.5	4398.9	4382.9	4328.1	4241.3	4179.6	4161.3	4067.7	3983.2	3885.0
7.5°	4762.0	4775.7	4746.0	4675.2	4558.7	4453.7	4437.7	4307.5	4172.8	4022.0
10°	5100.0	5116.0	5070.3	4967.6	4835.1	4704.9	4682.1	4538.2	4378.3	4193.3
12.5°	5383.2	5399.2	5339.9	5216.5	5070.3	4935.6	4912.8	4762.0	4586.2	4380.6
15°	5597.9	5627.6	5547.7	5415.2	5257.6	5122.9	5111.5	4963.0	4791.7	4563.3
17.5°	5723.6	5753.2	5677.9	5518.0	5383.2	5269.0	5255.3	5132.0	4972.1	4752.9
20°	5744.1	5771.5	5691.6	5552.3	5440.3	5349.0	5342.1	5253.1	5136.6	4926.5
22.5°	5682.4	5716.7	5643.6	5531.7	5454.0	5406.1	5397.0	5346.7	5280.5	5102.3
25°	5618.5	5645.9	5591.1	5492.9	5451.8	5447.2	5454.0	5444.9	5431.2	5280.5
27.5°	5613.9	5643.6	5581.9	5488.3	5465.5	5513.4	5520.3	5563.7	5575.1	5442.6
30°	5652.8	5673.3	5613.9	5515.7	5504.3	5613.9	5616.2	5693.9	5712.1	5579.7
32.5°	5737.3	5760.1	5700.7	5556.8	5540.8	5693.9	5700.7	5803.5	5833.2	5725.8
35°	5936.0	5963.4	5894.8	5671.0	5613.9	5769.2	5789.8	5910.8	5970.2	5881.1
37.5°	6431.6	6351.6	6258.0	5901.7	5780.7	5888.0	5922.3	6063.9	6168.9	6066.1
40°	7662.6	7411.4	7119.0	6294.5	6073.0	6141.5	6168.9	6310.5	6454.4	6353.9
42.5°	9510.3	9213.4	8742.9	7199.0	6513.8	6548.1	6568.6	6691.9	6895.2	6815.3
45°	11157.0	11049.7	10570.1	8742.9	7338.3	7169.3	7194.4	7258.4	7557.6	7527.9
47.5°	12422.3	12360.7	11990.7	10515.3	8731.5	7929.8	8000.6	8030.3	8462.0	8567.1
50°	13395.3	13372.5	13041.3	12091.2	10551.8	9051.3	9076.4	9012.4	9658.8	9919.2
52.5°	14313.5	14391.1	14146.7	13555.2	12495.4	10519.8	10515.3	10213.8	11086.2	11479.1
55°	15142.5	15169.9	15195.1	15048.9	14450.5	12191.7	12148.3	11654.9	12742.1	13148.6
57.5°	15921.3	15932.8	16156.6	16455.8	16485.5	13986.8	13906.9	13315.4	14551.0	14841.0
60°	16444.4	16496.9	16969.7	17801.0	18164.2	15839.1	15795.7	15192.8	16391.8	16526.6
62.5°	15690.7	16010.4	17202.6	18851.6	19749.2	17892.4	17871.8	17305.4	18328.6	18219.0
65°	12701.0	13242.3	15338.9	19561.9	21304.6	20185.5	20215.2	19612.2	20317.9	19961.6
67.5°	8884.5	9455.5	11935.9	19619.0	23042.7	22878.2	23049.5	22104.0	22430.6	21631.2
70°	6143.8	6438.4	8053.2	18390.3	24397.0	26587.3	26582.8	25164.5	24531.8	22391.7
72.5°	4131.6	4284.7	5230.2	14589.8	23401.2	28791.3	28658.9	27503.2	25239.8	20941.4
75°	1742.6	1854.6	2421.0	8199.3	18513.6	26340.7	25982.1	24305.7	22426.0	16490.0
77.5°	552.7	600.7	954.7	2934.9	10197.8	19799.5	19420.3	15179.1	15030.6	8272.4
80°	262.7	306.0	536.7	1178.5	4012.9	10768.8	10716.2	6886.1	6465.8	2233.7
82.5°	114.2	134.8	296.9	630.4	1795.2	3841.6	3919.2	2343.3	1939.1	847.3
85°	36.5	48.0	137.0	290.1	758.3	954.7	943.3	557.3	781.1	461.4
87.5°	0.0	0.0	45.7	66.2	77.7	54.8	61.7	48.0	217.0	127.9
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°
3665.7	0°	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7	3665.7
3711.4	2.5°	3684.0	3647.5	3583.5	3524.1	3471.6	3419.1	3387.1	3341.4	3336.8	3336.8
3770.8	5°	3709.1	3649.7	3535.5	3414.5	3275.2	3142.7	3010.2	2882.3	2841.2	2811.5
3866.7	7.5°	3782.2	3688.6	3508.1	3277.5	3012.5	2722.5	2519.2	2299.9	2215.4	2169.7
3994.6	10°	3887.3	3759.4	3485.3	3081.0	2651.7	2256.5	1966.5	1728.9	1637.6	1598.8
4133.9	12.5°	4003.7	3846.2	3444.2	2836.7	2256.5	1783.8	1500.5	1390.9	1377.2	1377.2
4300.7	15°	4143.1	3951.2	3373.4	2548.9	1843.1	1411.5	1311.0	1315.5	1329.3	1338.4
4462.8	17.5°	4287.0	4063.1	3261.5	2226.8	1477.7	1269.9	1272.2	1279.0	1290.4	1299.6
4638.7	20°	4442.3	4175.0	3113.0	1884.3	1267.6	1228.8	1235.6	1242.5	1251.6	1256.2
4803.1	22.5°	4609.0	4280.1	2937.1	1548.5	1196.8	1194.5	1196.8	1203.6	1215.1	1215.1
4995.0	25°	4787.1	4396.6	2736.2	1304.1	1160.2	1160.2	1164.8	1169.4	1178.5	1178.5
5180.0	27.5°	4969.9	4503.9	2523.8	1176.2	1128.3	1126.0	1126.0	1132.8	1137.4	1139.7
5362.7	30°	5170.8	4629.5	2311.3	1148.8	1103.1	1091.7	1084.9	1089.4	1094.0	1096.3
5554.5	32.5°	5376.4	4750.6	2121.8	1160.2	1078.0	1057.5	1034.6	1030.1	1030.1	1039.2
5753.2	35°	5604.8	4883.1	1975.6	1199.1	1064.3	1007.2	970.7	950.1	952.4	966.1
5990.8	37.5°	5878.9	5042.9	1868.3	1233.3	1055.2	950.1	890.7	865.6	849.6	865.6
6317.4	40°	6237.4	5278.2	1790.6	1260.7	1043.8	883.9	803.9	762.8	733.1	742.3
6824.4	42.5°	6765.0	5648.2	1760.9	1263.0	1018.6	806.2	714.9	660.1	616.7	618.9
7587.2	45°	7505.0	6232.9	1913.9	1233.3	963.8	721.7	621.2	548.1	520.7	513.9
8726.9	47.5°	8519.1	7084.8	2268.0	1171.7	883.9	639.5	529.9	468.2	447.7	436.2
10222.9	50°	9878.0	8178.8	2660.8	1103.1	803.9	561.8	454.5	415.7	402.0	390.6
11997.5	52.5°	11454.0	9288.8	2982.8	1034.6	724.0	493.3	406.5	383.7	372.3	363.1
13710.5	55°	12899.7	10053.9	2964.6	961.5	646.4	438.5	372.3	358.6	344.9	335.7
15185.9	57.5°	13799.6	10161.2	2443.8	881.6	557.3	395.1	340.3	331.2	315.2	303.8
16462.6	60°	14213.0	9549.2	1713.0	776.5	468.2	354.0	306.0	301.5	280.9	264.9
17670.8	62.5°	14288.3	8411.8	1142.0	646.4	390.6	315.2	271.8	264.9	237.5	210.1
18652.9	65°	13982.3	6785.6	790.2	504.8	333.5	274.1	233.0	219.3	189.6	162.2
18885.9	67.5°	13013.9	4764.3	550.4	363.1	283.2	217.0	185.0	180.4	157.6	134.8
17698.3	70°	11239.3	2715.6	367.7	271.8	223.8	148.5	146.2	150.7	127.9	109.6
14459.6	72.5°	8617.3	1242.5	228.4	198.7	153.0	100.5	116.5	118.8	98.2	82.2
9021.6	75°	5072.6	532.2	143.9	127.9	77.7	66.2	84.5	86.8	66.2	52.5
3298.0	77.5°	1726.7	201.0	91.4	75.4	38.8	36.5	54.8	54.8	36.5	20.6
662.3	80°	392.8	75.4	45.7	29.7	18.3	16.0	18.3	16.0	9.1	2.3
203.3	82.5°	111.9	29.7	18.3	11.4	6.9	6.9	2.3	0.0	0.0	0.0
70.8	85°	32.0	13.7	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
25.1	87.5°	13.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3665.7
3348.3
2825.2
2176.6
1598.8
1377.2
1338.4
1299.6
1258.5
1219.6
1180.8
1142.0
1100.9
1046.0
973.0
861.0
737.7
609.8
504.8
429.4
388.3
360.9
331.2
301.5
260.4
196.4
153.0
127.9
100.5
73.1
45.7
16.0
0.0
0.0
0.0
0.0
0.0

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