

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: P939676

Luminaire Tested: **GALN-SB2B-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

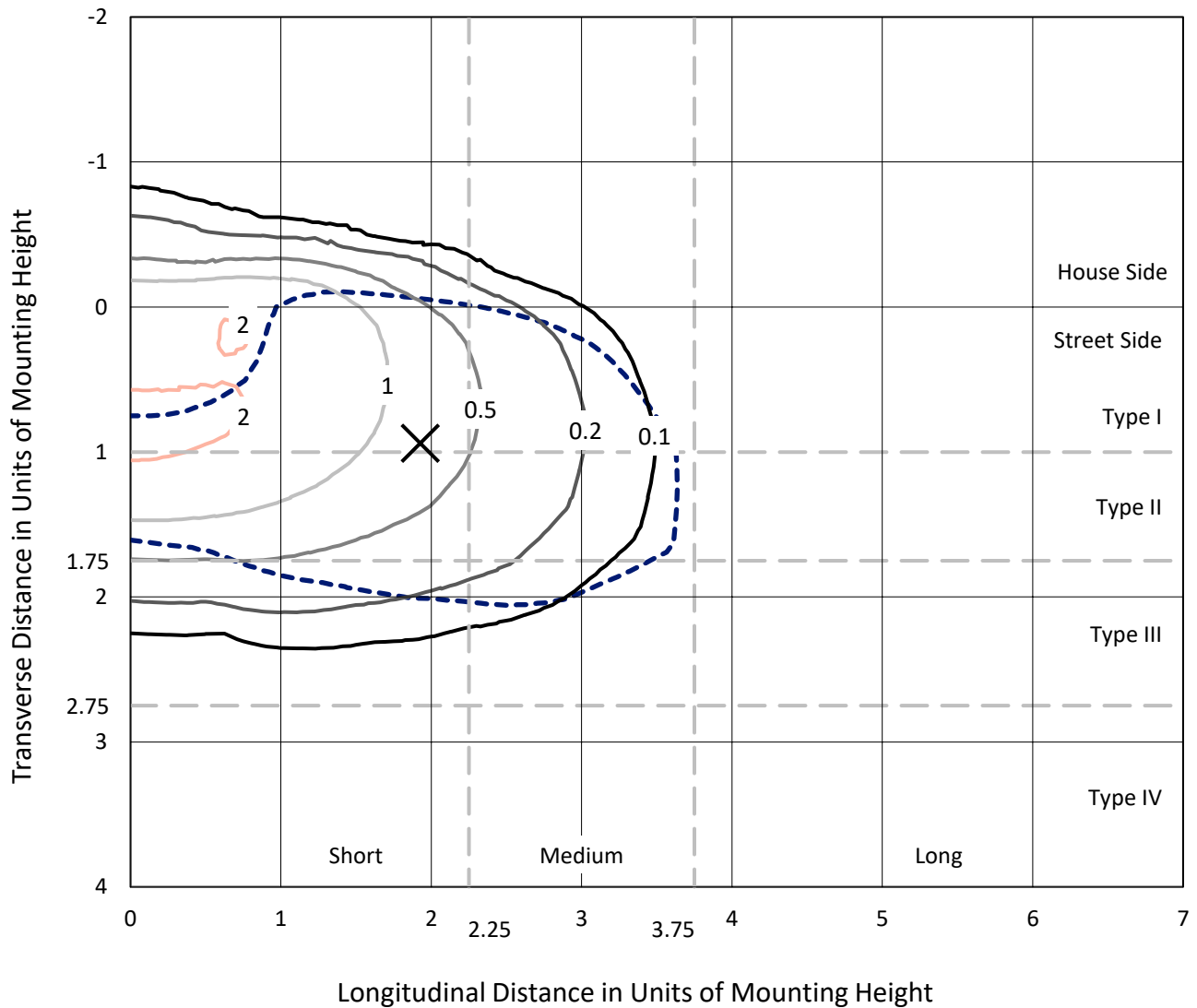
Lumens per Lamp: N/A  
Luminaire Lumens: 8448 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

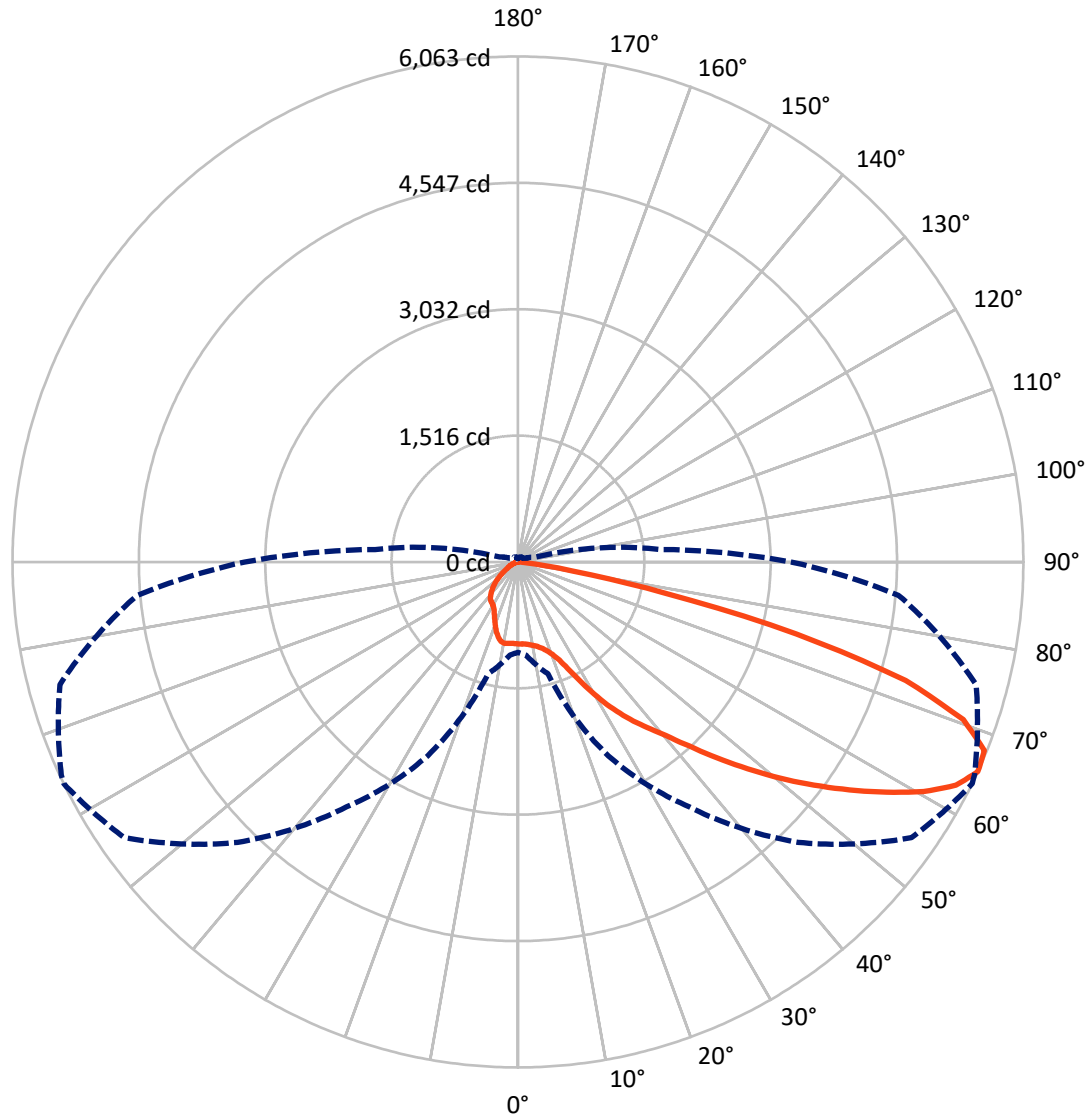
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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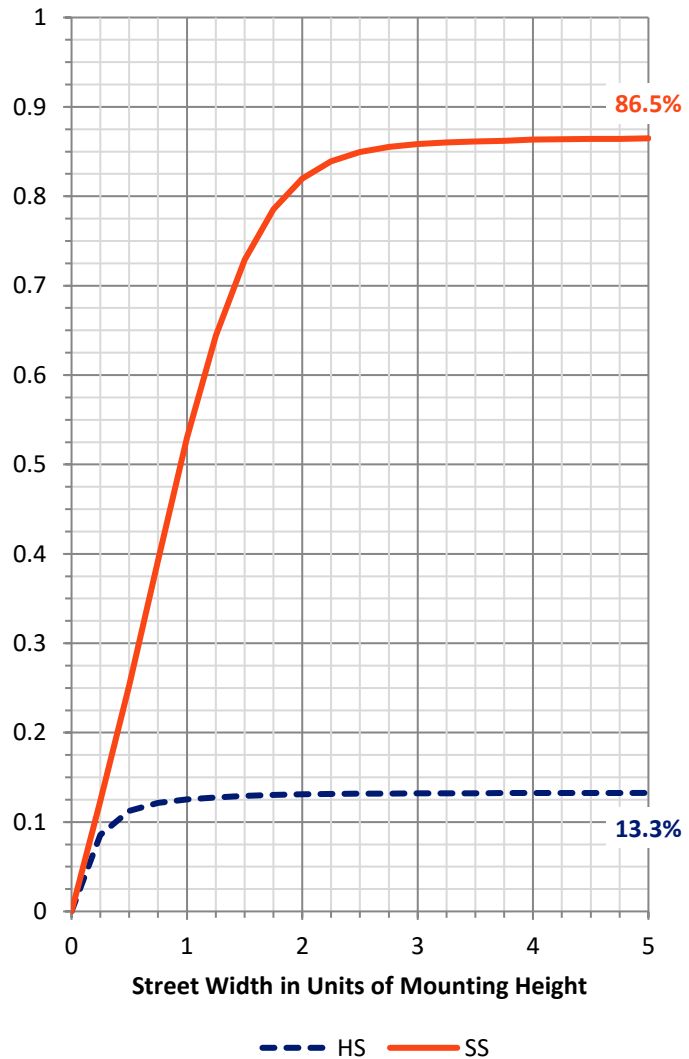
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1129.8	0.0	1129.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7318.3	0.0	7318.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8448.0	0.0	8448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	1.1
10°-20°	245.9	2.9
20°-30°	465.9	5.5
30°-40°	942.8	11.2
40°-50°	1606.1	19.0
50°-60°	2184.1	25.9
60°-70°	2051.0	24.3
70°-80°	821.7	9.7
80°-90°	39.8	0.5
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°	8448.0	100.0
0°-180°	8448.0	100.0

**Coefficient of Utilization**



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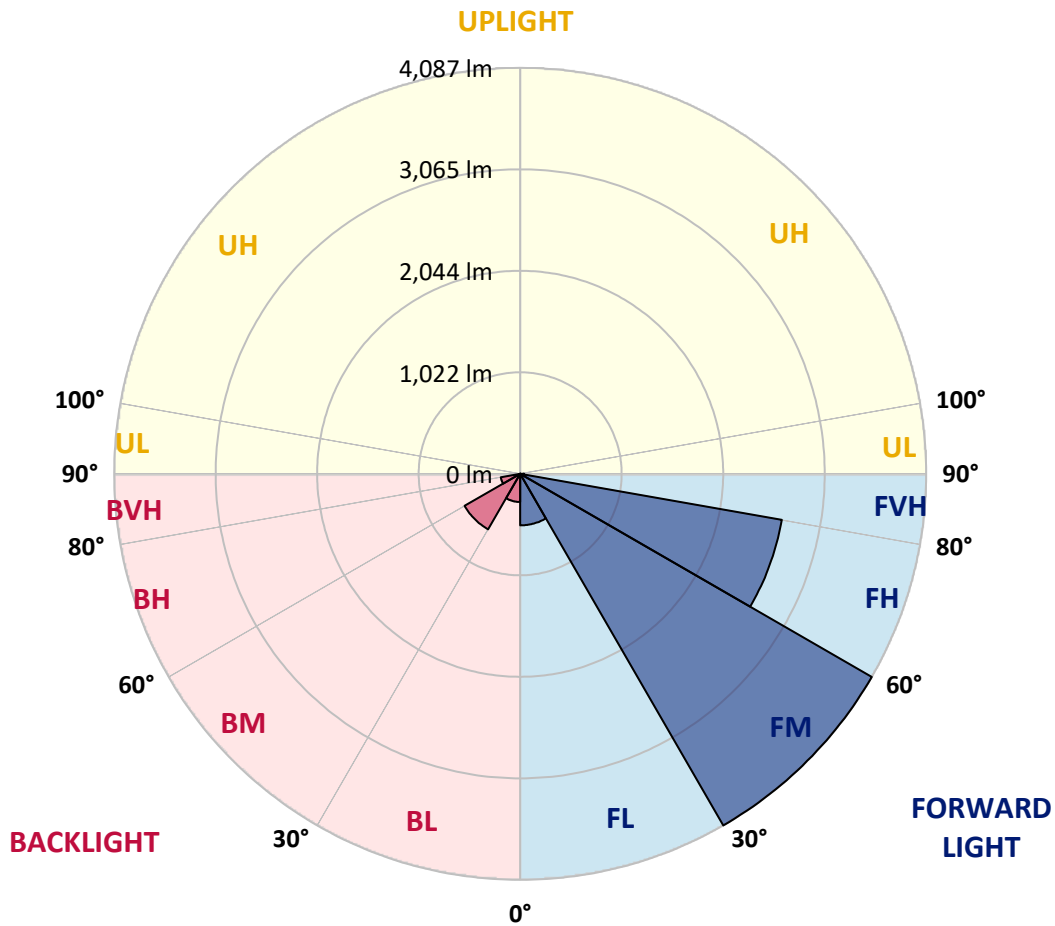
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.8	6.1			
FM (30°-60°)	4087.1	48.4			
FH (60°-80°)	2674.4	31.7			G2/5000
FVH (80°-90°)	37.9	0.4			G1/100
BL (0°-30°)	283.6	3.4	B1/500		
BM (30°-60°)	645.9	7.6	B1/1000		
BH (60°-80°)	198.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
2.5°	979.2	986.0	984.3	982.6	982.0	983.2	983.7	983.2	983.2	983.2
5°	960.5	966.2	966.2	970.1	975.8	982.6	987.7	988.8	990.0	991.7
7.5°	924.8	929.4	932.8	945.8	959.9	978.1	993.4	1001.3	1002.4	1008.6
10°	900.5	906.1	911.8	925.4	945.8	973.0	999.0	1018.3	1021.1	1035.8
12.5°	899.3	905.0	912.4	927.1	950.9	979.8	1011.5	1039.2	1044.3	1065.8
15°	911.2	918.0	924.8	942.9	968.4	1003.5	1037.5	1072.1	1077.2	1107.8
17.5°	935.6	944.6	949.7	967.9	995.0	1034.1	1078.9	1118.5	1123.0	1158.7
20°	983.7	994.5	996.2	1010.9	1037.5	1079.4	1132.7	1181.9	1187.6	1228.4
22.5°	1083.4	1098.7	1085.1	1092.5	1116.2	1158.2	1215.9	1278.2	1286.1	1332.6
25°	1259.0	1280.5	1245.4	1232.9	1243.1	1286.7	1359.2	1437.9	1447.0	1484.4
27.5°	1603.9	1576.1	1522.9	1470.8	1440.2	1465.1	1546.7	1644.1	1655.4	1691.6
30°	1982.7	1958.4	1886.5	1770.9	1698.4	1694.5	1769.8	1878.5	1891.6	1926.1
32.5°	2362.2	2339.0	2260.8	2118.7	1992.9	1930.6	1982.7	2103.4	2110.2	2132.2
35°	2735.4	2711.6	2633.5	2487.9	2333.3	2191.7	2181.5	2317.4	2319.7	2342.9
37.5°	3110.9	3091.1	3007.8	2865.1	2712.7	2517.4	2422.8	2520.2	2523.0	2545.7
40°	3378.8	3387.2	3330.0	3219.6	3088.8	2875.3	2693.5	2736.0	2719.0	2756.9
42.5°	3608.7	3625.7	3575.8	3520.3	3444.4	3256.4	3028.8	3021.4	2994.2	3014.6
45°	3807.5	3821.6	3776.9	3763.9	3762.2	3630.2	3395.2	3351.0	3313.1	3309.1
47.5°	3880.5	3907.7	3927.0	3970.6	4055.5	4000.0	3774.1	3705.5	3663.1	3631.9
50°	3908.3	3937.2	4002.9	4129.7	4330.8	4354.5	4151.2	4074.2	4022.1	3965.5
52.5°	3870.9	3922.4	4010.8	4224.3	4516.0	4638.8	4513.1	4445.7	4386.3	4293.9
55°	3650.6	3702.1	3882.8	4223.2	4608.3	4838.2	4855.2	4825.2	4758.3	4612.8
57.5°	3186.2	3262.7	3548.7	4079.3	4606.6	5009.8	5190.5	5212.0	5137.2	4928.8
60°	2542.8	2646.5	2995.3	3760.5	4464.4	5102.7	5484.4	5592.0	5512.7	5240.3
62.5°	1774.3	1894.4	2224.6	3261.0	4139.3	5035.8	5699.0	5897.8	5837.8	5518.9
65°	1082.3	1120.8	1387.0	2566.1	3586.6	4756.1	5765.3	6063.2	6043.4	5689.4
67.5°	720.9	753.2	829.7	1759.6	2784.1	4197.1	5606.7	6034.3	6040.0	5661.6
70°	434.4	462.1	512.0	1023.4	1804.3	3322.1	5115.7	5666.2	5699.0	5290.7
72.5°	179.0	197.7	243.0	463.8	934.5	2108.5	4073.6	4864.8	4941.3	4448.6
75°	101.4	111.0	142.7	232.8	405.5	982.6	2467.5	3453.5	3566.2	3066.1
77.5°	67.4	71.9	92.3	150.6	228.2	335.3	1054.5	1799.2	2014.5	1674.7
80°	45.3	49.3	63.4	100.8	148.4	143.8	335.8	666.6	820.1	575.4
82.5°	30.6	31.1	45.3	66.3	94.0	69.7	99.1	207.3	260.5	166.5
85°	17.6	17.0	33.4	38.5	41.9	28.9	30.0	62.3	81.6	70.2
87.5°	2.3	3.4	13.0	10.2	5.7	6.2	6.2	10.8	15.9	17.0
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°
982.6	0°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
983.7	2.5°	983.7	983.2	981.5	979.8	975.8	973.5	974.7	973.5	973.0	973.5
991.1	5°	991.1	989.4	984.9	979.2	971.3	961.6	955.4	946.3	937.8	932.8
1010.9	7.5°	1010.9	1009.2	1003.0	987.1	961.6	921.4	884.6	852.3	828.0	813.8
1042.6	10°	1042.6	1039.8	1030.2	995.0	928.2	840.4	767.4	706.8	667.1	648.5
1080.0	12.5°	1080.0	1076.6	1059.6	987.7	864.8	727.7	626.9	559.5	522.7	506.3
1123.0	15°	1124.2	1119.6	1086.2	952.6	772.5	603.1	510.8	460.4	436.6	421.9
1178.0	17.5°	1179.1	1171.2	1106.1	899.9	672.2	508.0	439.5	401.5	380.6	366.4
1249.9	20°	1250.5	1237.4	1121.9	837.0	579.9	448.0	391.3	359.6	343.8	331.3
1351.8	22.5°	1350.1	1331.5	1141.2	769.1	514.8	406.6	355.7	332.4	319.4	305.3
1494.0	25°	1473.6	1451.5	1164.9	706.2	470.1	370.9	329.6	310.4	295.1	278.6
1680.3	27.5°	1646.3	1606.7	1193.3	654.7	431.5	340.4	305.8	284.3	266.7	253.2
1891.6	30°	1838.9	1773.8	1218.2	623.5	396.4	312.1	274.7	253.2	236.7	227.1
2081.3	32.5°	2021.2	1932.9	1234.6	609.9	364.7	279.8	240.7	217.5	205.0	202.2
2267.0	35°	2193.4	2076.7	1232.9	596.9	336.4	247.5	207.3	183.5	173.9	175.6
2467.0	37.5°	2391.6	2230.2	1221.0	576.5	313.2	218.0	178.4	157.4	148.9	149.5
2709.9	40°	2622.1	2407.5	1213.7	538.0	287.7	190.9	154.6	137.6	131.4	129.1
2965.9	42.5°	2867.9	2579.1	1214.8	494.4	256.0	166.5	138.2	124.0	118.4	116.7
3250.8	45°	3114.8	2742.8	1216.5	449.1	222.6	147.8	126.3	114.4	111.0	108.7
3539.6	47.5°	3347.0	2882.1	1184.8	400.4	189.7	133.7	116.7	108.7	105.9	103.1
3829.6	50°	3563.4	2975.0	1108.3	343.8	163.7	122.3	109.3	103.6	100.8	98.0
4092.3	52.5°	3731.6	2989.7	982.0	285.4	145.5	113.8	104.8	99.7	96.3	93.4
4304.7	55°	3806.3	2897.4	802.5	231.1	131.4	106.5	100.2	95.1	91.2	88.3
4471.8	57.5°	3787.1	2703.1	625.8	185.8	117.8	99.1	94.6	91.2	86.6	82.1
4607.1	60°	3692.5	2443.2	471.8	154.6	105.3	91.2	88.3	85.5	79.3	72.5
4659.2	62.5°	3528.8	2116.4	336.4	128.0	91.7	82.1	81.0	78.7	69.7	57.2
4582.2	65°	3278.5	1719.4	226.5	106.5	78.7	71.9	72.5	68.5	56.6	42.5
4300.2	67.5°	2912.7	1257.3	145.0	87.2	65.7	60.0	60.6	58.3	48.1	36.2
3765.6	70°	2446.6	832.5	94.6	66.3	52.7	46.4	49.8	50.4	40.8	29.4
2890.0	72.5°	1793.6	491.6	66.3	49.3	38.5	32.3	40.8	41.9	32.8	22.1
1738.6	75°	1022.2	233.3	49.8	35.7	23.8	22.7	31.7	31.7	22.7	14.7
752.7	77.5°	429.3	97.4	35.1	23.2	13.6	13.0	21.5	19.8	11.3	6.8
183.5	80°	124.0	43.6	18.7	11.3	5.7	5.1	8.5	6.2	2.8	1.1
69.7	82.5°	48.7	19.3	7.4	4.5	2.3	2.3	1.1	0.0	0.0	0.0
39.6	85°	28.9	7.9	3.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	7.4	1.7	1.1	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>
982.6
975.8
933.9
814.4
646.8
504.6
422.5
365.3
329.0
303.0
276.9
250.3
225.4
203.9
175.6
151.8
128.6
116.1
108.7
103.1
98.0
92.9
87.8
81.6
71.4
56.1
41.3
34.5
28.3
21.0
13.6
6.8
1.1
0.0
0.0
0.0
0.0

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