

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: P947321

Luminaire Tested: **GALN-SB2C-950-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-950-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

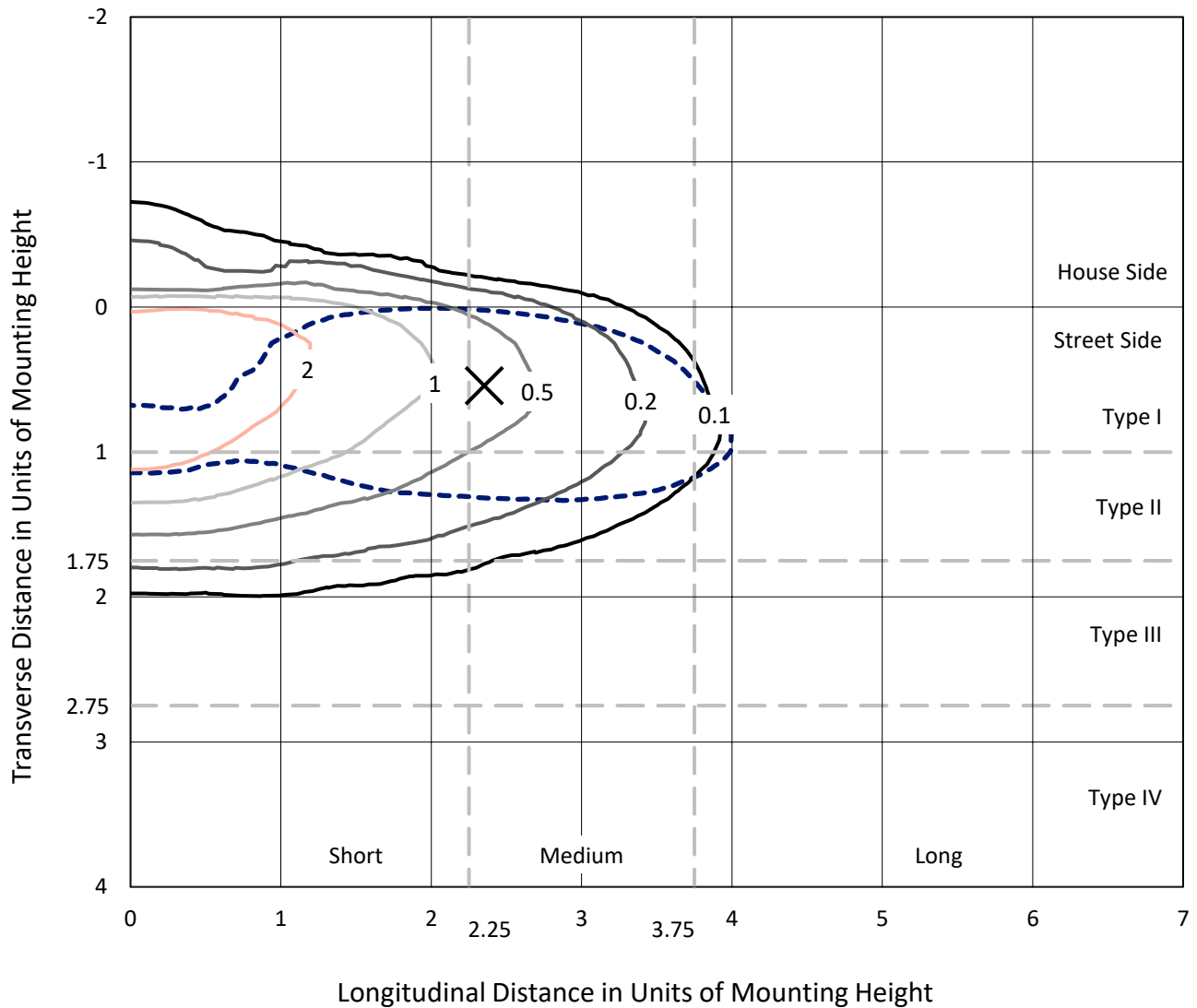
Lumens per Lamp: N/A  
Luminaire Lumens: 8821 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

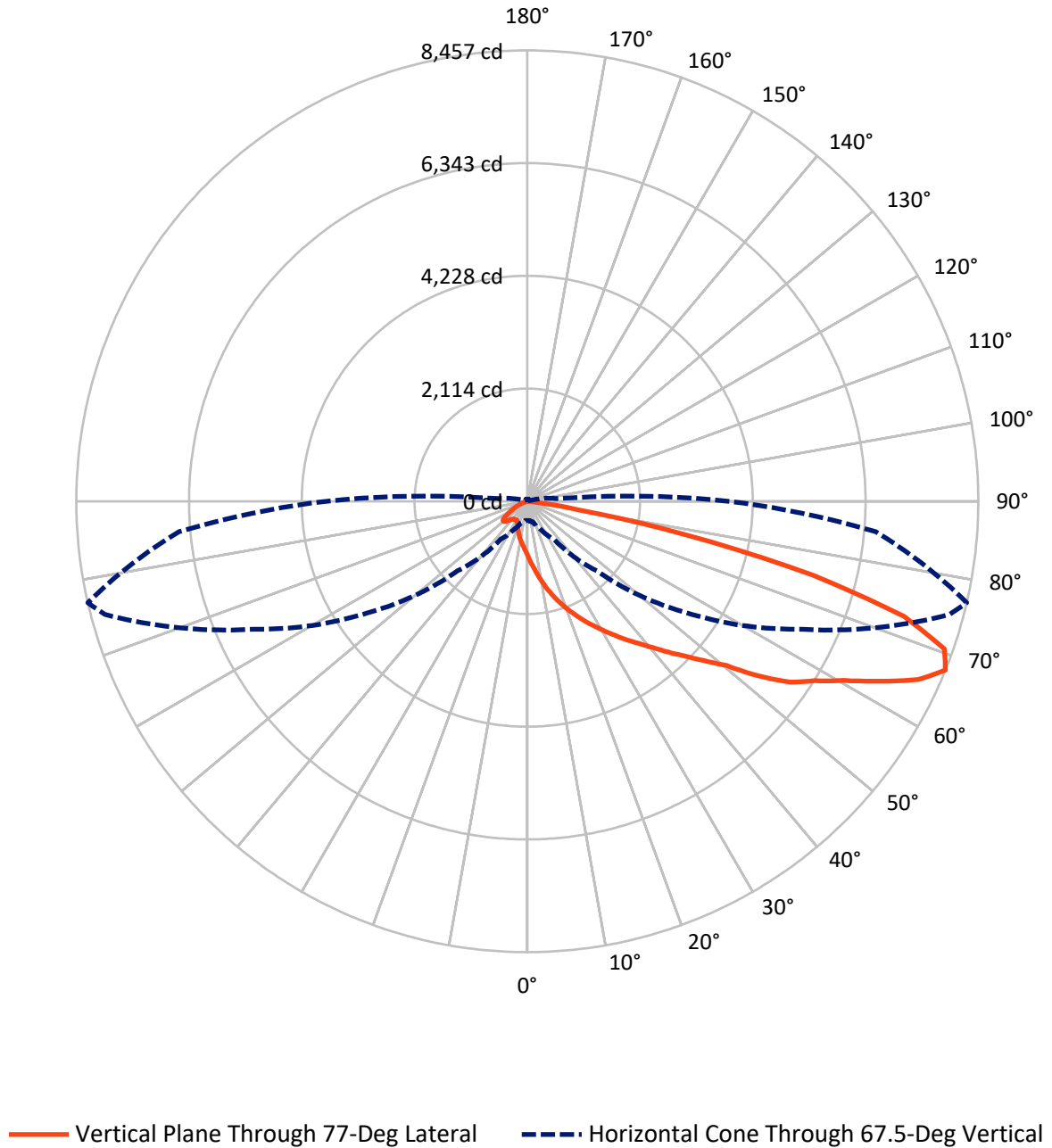
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.0	0.0	649.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	8172.0	0.0	8172.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	8821.0	0.0	8821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	1.2
10°-20°	363.6	4.1
20°-30°	701.6	8.0
30°-40°	1218.0	13.8
40°-50°	1768.5	20.0
50°-60°	2030.9	23.0
60°-70°	1763.2	20.0
70°-80°	830.5	9.4
80°-90°	41.1	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°	8821.0	100.0
0°-180°	8821.0	100.0

**Coefficient of Utilization**



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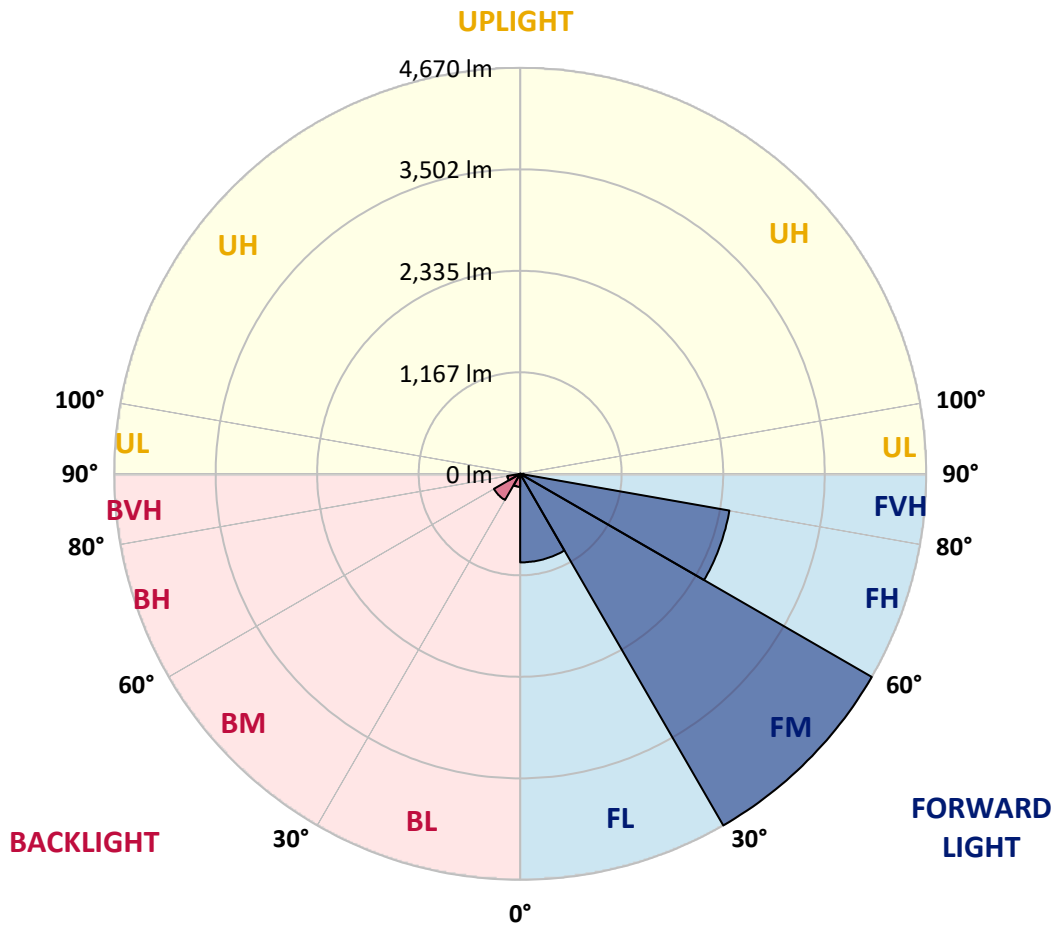
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.7	11.5			
FM (30°-60°)	4669.6	52.9			
FH (60°-80°)	2443.4	27.7			G2/5000
FVH (80°-90°)	40.3	0.5			G1/100
BL (0°-30°)	150.2	1.7	B1/500		
BM (30°-60°)	347.7	3.9	B1/1000		
BH (60°-80°)	150.2	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1408.3	1417.1	1404.5	1380.4	1344.2	1320.7	1263.1	1208.9	1148.7	1129.5
5°	1716.7	1724.3	1710.1	1683.8	1635.6	1589.6	1514.0	1400.6	1282.9	1245.1
7.5°	1945.1	1949.5	1944.0	1919.9	1873.9	1821.9	1737.5	1603.3	1428.6	1386.9
10°	2109.4	2123.7	2122.0	2112.7	2082.0	2039.9	1950.0	1797.2	1591.8	1538.1
12.5°	2218.4	2234.3	2243.6	2264.4	2262.8	2236.0	2157.1	1995.5	1754.5	1691.5
15°	2250.2	2267.2	2302.8	2351.0	2393.7	2407.4	2352.1	2189.9	1933.6	1853.1
17.5°	2232.1	2258.4	2301.1	2377.3	2470.9	2532.8	2526.8	2377.8	2096.3	2004.3
20°	2272.1	2297.3	2330.7	2394.8	2503.8	2616.1	2661.0	2557.5	2257.9	2161.5
22.5°	2493.4	2489.0	2492.3	2502.7	2567.9	2679.1	2771.7	2720.7	2417.8	2319.2
25°	2844.0	2824.3	2790.8	2734.4	2718.0	2771.7	2868.1	2865.3	2586.5	2480.8
27.5°	3246.0	3242.7	3164.4	3028.6	2951.9	2931.1	2977.1	3006.1	2753.6	2640.8
30°	3631.1	3639.9	3534.1	3383.0	3242.2	3160.6	3118.9	3139.8	2923.4	2813.3
32.5°	3966.3	3975.6	3860.6	3683.7	3509.5	3410.9	3323.3	3271.8	3108.5	2988.6
35°	4249.5	4258.8	4126.8	3931.3	3745.6	3656.3	3557.2	3416.4	3294.8	3183.0
37.5°	4502.6	4499.9	4322.9	4125.7	3943.3	3872.7	3820.6	3594.4	3486.5	3378.6
40°	4652.1	4663.6	4512.4	4295.0	4118.1	4066.6	4063.3	3815.2	3707.8	3603.2
42.5°	4695.9	4716.2	4606.7	4428.1	4267.6	4211.7	4297.7	4054.0	3965.2	3863.4
45°	4617.1	4636.8	4586.9	4463.2	4369.5	4333.3	4499.3	4301.6	4240.2	4139.4
47.5°	4387.0	4411.7	4423.7	4397.4	4396.3	4433.0	4680.1	4562.3	4566.7	4463.7
50°	3941.7	3983.3	4094.0	4187.1	4331.1	4511.9	4855.9	4844.9	4934.8	4846.0
52.5°	3132.1	3191.3	3572.5	3827.2	4150.9	4497.1	5049.3	5298.5	5580.6	5450.8
55°	2517.0	2517.0	2827.0	3303.5	3799.3	4399.6	5133.6	5593.2	6020.4	5989.8
57.5°	2051.9	2076.6	2274.3	2695.5	3290.4	4167.4	5185.6	5778.3	6374.8	6352.4
60°	1266.4	1319.6	1693.1	2108.9	2711.4	3753.8	5152.8	5965.7	6804.8	6822.9
62.5°	713.2	732.9	899.4	1517.3	2108.3	3197.8	4901.4	6070.3	7354.8	7431.5
65°	492.4	502.3	566.4	944.3	1461.4	2546.0	4410.0	6005.1	7905.8	8060.8
67.5°	357.7	362.6	402.6	576.8	867.1	1846.0	3639.9	5676.4	8197.8	8456.9
70°	275.0	278.3	307.3	379.1	512.2	1139.3	2643.5	5023.0	7986.3	8295.8
72.5°	223.5	226.8	249.2	280.5	339.6	673.7	1602.2	4079.2	7053.0	7387.1
75°	188.4	192.8	213.1	233.3	266.2	432.7	751.5	2840.7	5304.0	5523.1
77.5°	104.6	96.4	173.1	193.4	224.6	273.9	351.7	1671.8	2970.5	3031.3
80°	65.2	67.4	137.5	155.6	172.5	138.0	161.0	643.6	1029.8	978.3
82.5°	3.8	8.8	105.7	112.3	118.3	59.2	60.8	218.6	248.1	227.9
85°	0.0	0.0	48.2	38.9	41.1	17.0	17.5	50.9	33.4	36.2
87.5°	0.0	0.0	0.0	1.1	0.0	1.6	3.3	4.4	1.6	2.2
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°
1017.2	0°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
1069.2	2.5°	1030.9	992.5	914.8	838.6	776.7	719.2	678.1	639.2	619.5	618.4
1138.2	5°	1062.1	981.6	826.0	688.5	577.9	489.1	431.6	390.6	369.7	362.6
1223.1	7.5°	1105.9	984.9	748.2	557.1	426.7	350.6	317.7	304.6	300.2	295.2
1319.0	10°	1161.3	992.5	678.7	448.6	336.3	298.0	284.8	279.4	276.1	272.8
1426.9	12.5°	1223.1	999.7	609.7	372.5	295.8	276.1	266.8	260.2	255.8	252.0
1537.6	15°	1283.4	1004.0	537.9	319.3	275.0	259.1	249.2	242.1	236.1	231.7
1646.0	17.5°	1343.1	1010.1	470.5	287.6	258.0	242.1	232.3	223.5	218.6	213.6
1760.0	20°	1409.4	1009.0	407.0	265.1	241.0	225.1	214.7	206.5	201.6	196.1
1880.5	22.5°	1470.7	1003.5	351.1	245.9	223.5	208.1	196.6	188.4	183.5	179.1
2003.7	25°	1541.4	999.1	304.6	228.4	207.1	191.7	179.1	171.4	166.0	162.1
2127.5	27.5°	1609.3	992.5	270.6	212.5	191.2	176.4	164.3	155.6	150.6	147.9
2255.1	30°	1676.1	990.9	258.0	197.2	176.9	162.1	150.1	141.9	138.0	136.9
2395.4	32.5°	1756.7	995.3	263.5	191.7	163.8	149.0	137.5	131.5	127.6	127.6
2551.5	35°	1842.7	994.2	271.7	196.6	155.0	135.8	127.1	123.2	119.4	119.4
2724.6	37.5°	1950.6	995.8	278.3	204.9	151.7	124.9	120.0	115.0	112.8	112.8
2914.1	40°	2111.6	1050.1	275.0	212.0	150.6	117.2	107.4	105.7	104.1	104.1
3128.3	42.5°	2308.8	1167.8	279.4	212.5	150.1	111.7	98.6	101.9	98.0	97.5
3369.8	45°	2524.6	1296.5	307.3	201.0	149.5	109.0	94.2	98.0	92.0	92.0
3649.7	47.5°	2738.8	1424.2	335.8	184.6	147.9	108.5	90.4	88.2	86.5	87.1
4014.5	50°	3034.0	1528.3	346.7	162.1	144.1	107.4	83.3	83.8	82.7	83.8
4528.9	52.5°	3355.6	1550.2	333.6	136.9	133.1	104.1	78.3	80.5	80.0	81.1
4891.0	55°	3556.1	1526.6	275.5	113.9	116.1	90.9	73.4	77.8	77.8	77.8
5244.8	57.5°	3763.1	1426.4	195.6	92.6	96.4	74.5	69.0	75.0	74.5	73.9
5671.0	60°	3912.1	1264.2	128.7	76.1	76.7	61.3	64.1	70.7	70.1	67.4
6110.3	62.5°	4023.3	1085.1	82.7	64.6	58.6	55.3	58.6	64.1	61.9	55.9
6482.7	65°	4010.7	837.0	63.5	55.3	48.2	48.2	50.9	55.9	49.3	39.4
6554.0	67.5°	3776.8	566.4	52.6	46.6	40.5	40.0	42.2	46.6	42.2	33.4
6189.1	70°	3358.9	370.3	42.2	36.2	32.3	29.6	34.0	40.0	35.6	26.8
5268.9	72.5°	2726.2	225.7	31.8	26.3	23.6	19.2	26.8	32.9	28.5	19.7
3664.0	75°	1763.8	115.0	21.9	17.0	12.6	11.5	19.7	24.6	19.7	12.1
1625.8	77.5°	674.8	48.2	12.1	7.7	6.6	5.5	11.0	14.8	8.2	2.7
315.0	80°	129.8	20.3	6.0	3.8	3.3	2.2	1.6	1.1	0.0	0.0
55.9	82.5°	22.5	6.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
11.0	85°	7.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	2.7	0.0	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

180°
1017.2
617.3
361.5
294.1
271.7
250.9
231.2
213.1
195.6
178.6
161.6
147.9
136.4
127.6
119.4
112.8
104.1
97.0
92.0
87.1
83.8
81.1
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