

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: STREETWORKS

Report Number: P846996

Luminaire Tested: **GLAN-SB2D-850-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17314 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

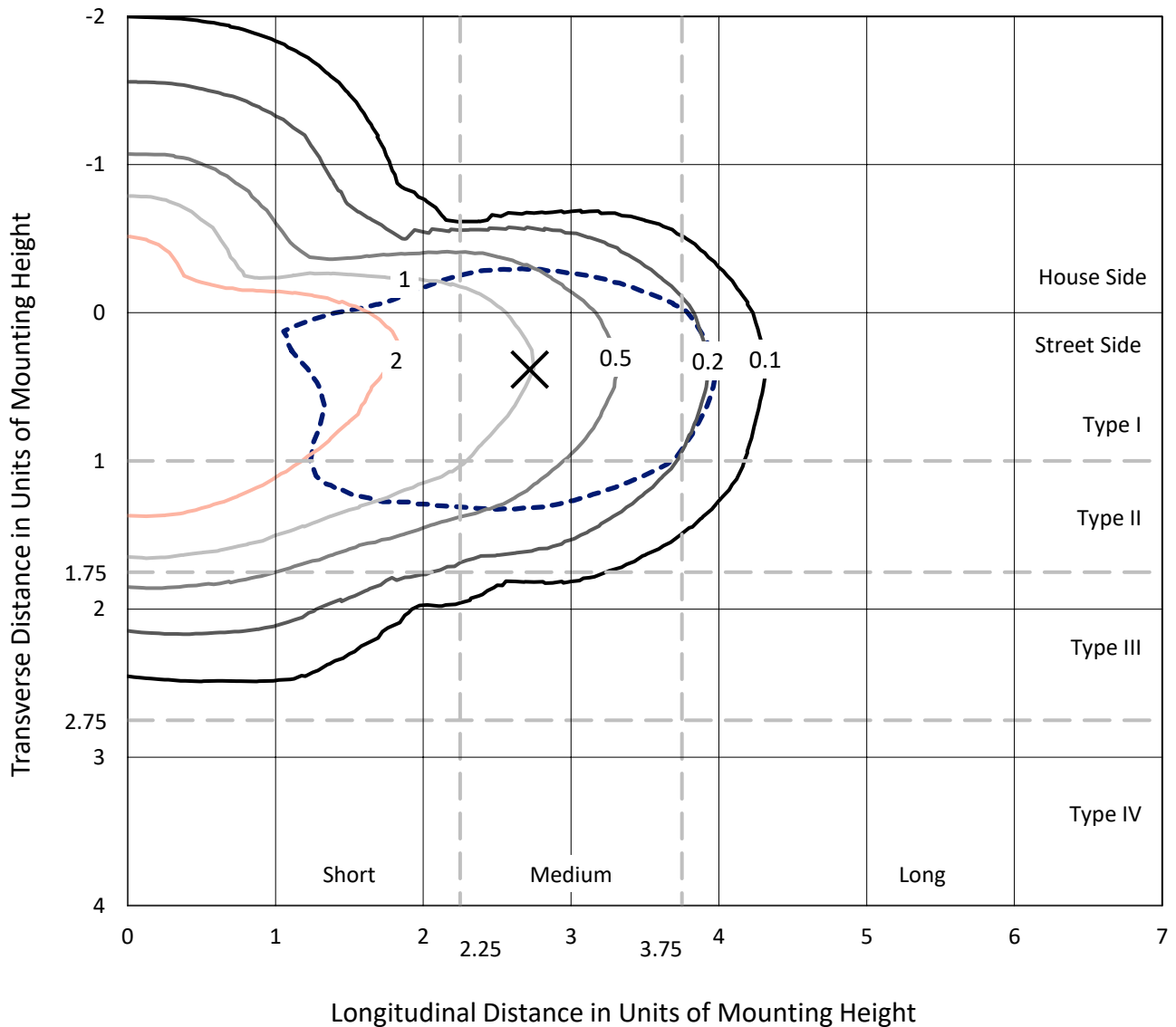
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

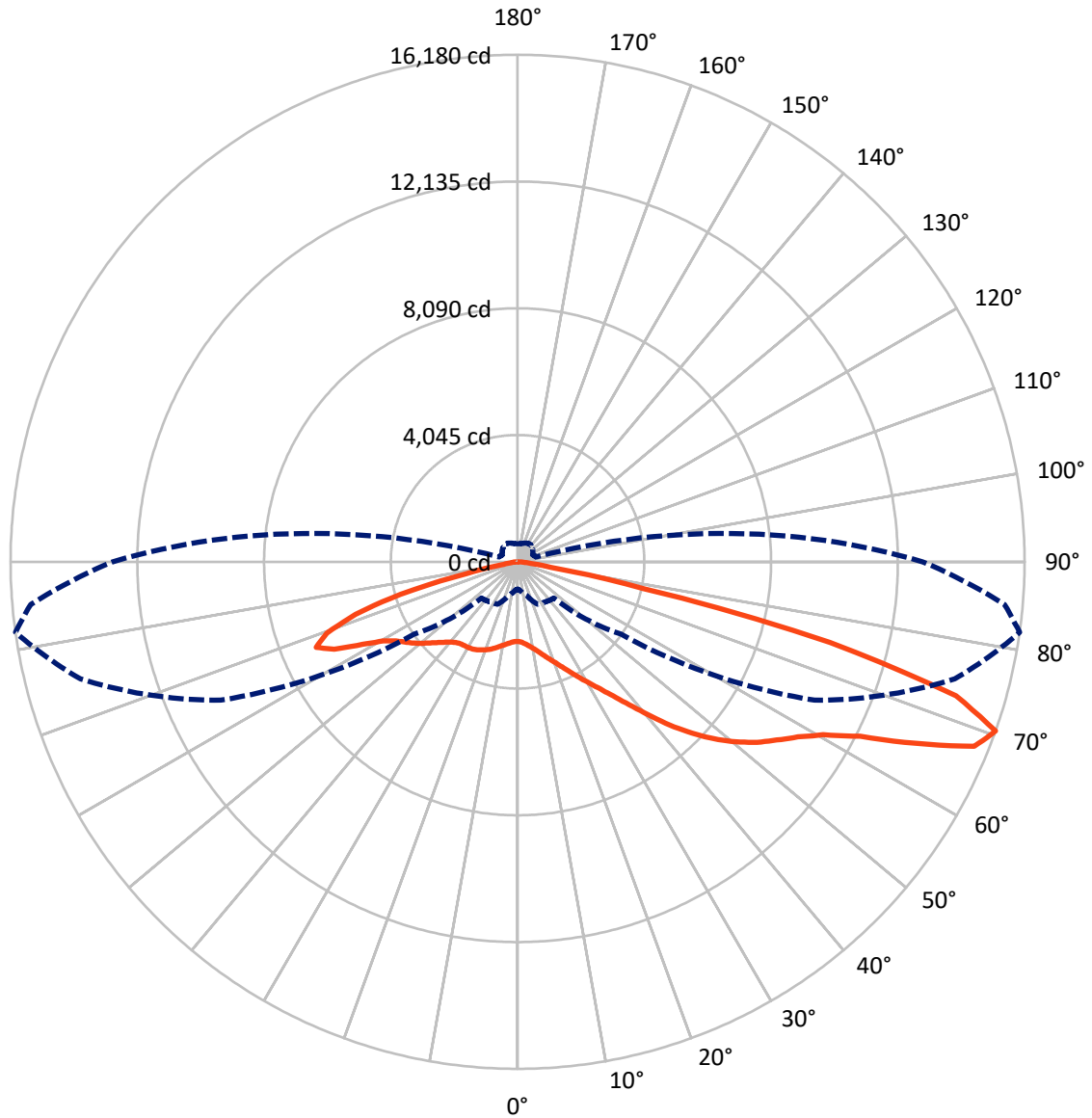
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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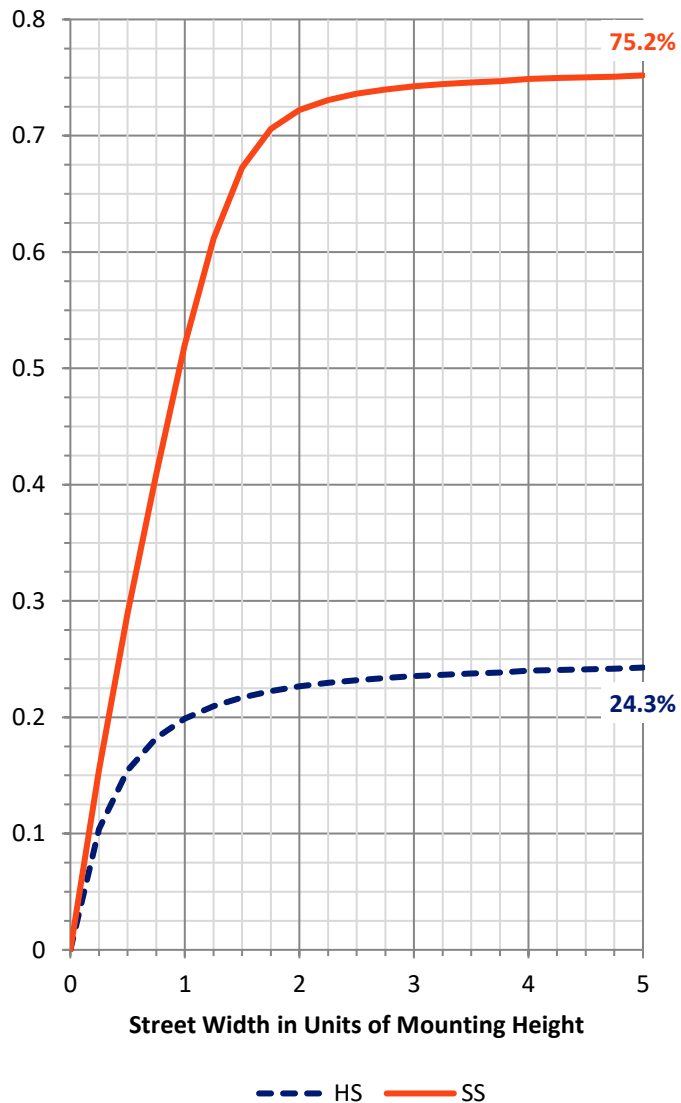
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4268.3	0.0	4268.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	13045.7	0.0	13045.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	17314.0	0.0	17314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.7	1.4
10°-20°	688.6	4.0
20°-30°	1152.0	6.7
30°-40°	1799.7	10.4
40°-50°	2866.2	16.6
50°-60°	3988.6	23.0
60°-70°	4172.3	24.1
70°-80°	2180.7	12.6
80°-90°	226.4	1.3
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°	17314.0	100.0
0°-180°	17314.0	100.0

**Coefficient of Utilization**

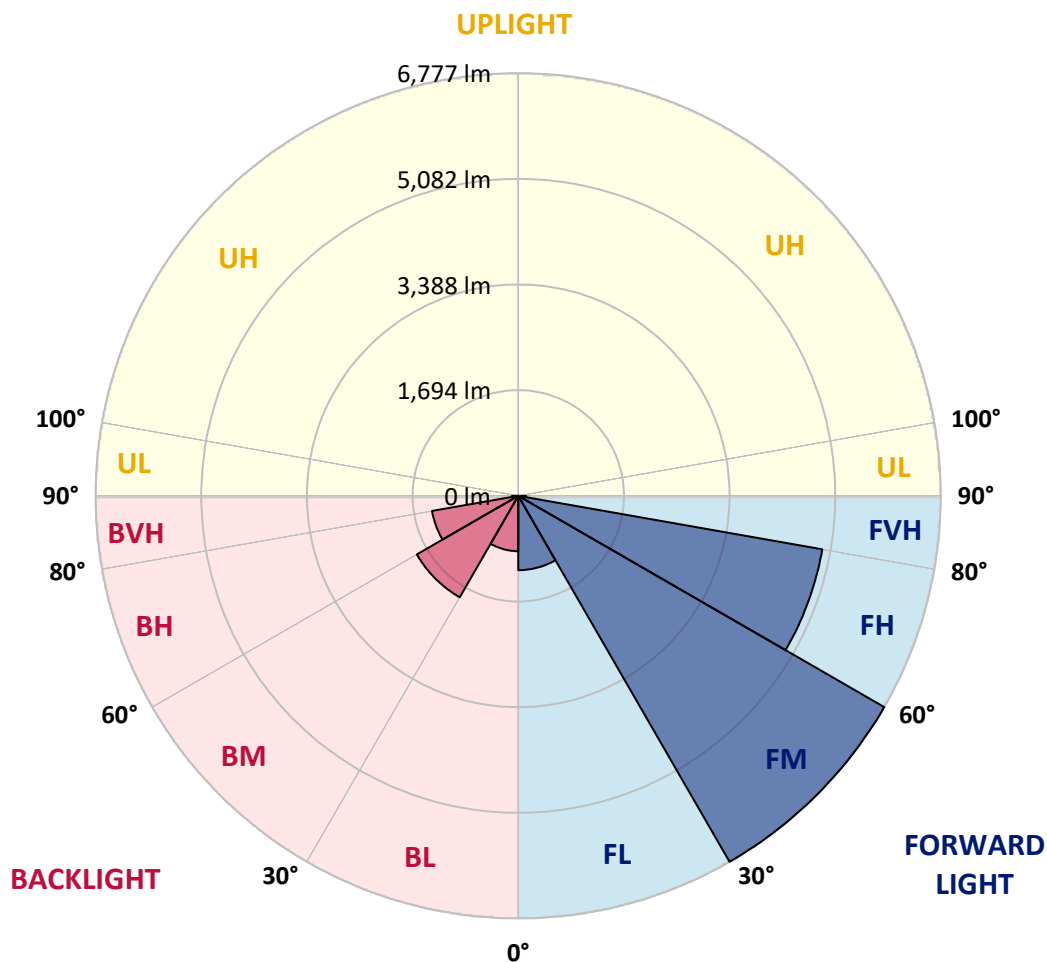


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.3	6.9			
FM (30°-60°)	6776.5	39.1			
FH (60°-80°)	4950.1	28.6			G2/5000
FVH (80°-90°)	126.8	0.7			G2/225
BL (0°-30°)	888.0	5.1	B2/1000		
BM (30°-60°)	1877.9	10.8	B2/2500		
BH (60°-80°)	1402.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	99.7	0.6			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°	82°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2599.1	2613.8	2609.2	2604.6	2604.6	2598.2	2597.2	2588.1	2580.7	2568.8
5°	2632.2	2647.8	2645.9	2649.6	2661.6	2664.3	2667.1	2661.6	2646.9	2632.2
7.5°	2602.8	2620.2	2625.7	2647.8	2684.5	2717.6	2742.4	2752.5	2738.7	2717.6
10°	2503.5	2522.8	2542.1	2594.5	2659.7	2737.8	2804.0	2843.5	2840.7	2820.5
12.5°	2302.3	2322.5	2363.9	2465.9	2585.3	2723.1	2846.2	2928.9	2957.4	2942.7
15°	2141.6	2159.0	2190.3	2295.0	2450.3	2659.7	2861.8	3022.6	3095.2	3086.9
17.5°	2137.0	2144.3	2163.6	2213.2	2332.7	2560.5	2845.3	3114.5	3253.2	3252.3
20°	2217.8	2220.6	2231.6	2241.7	2309.7	2485.2	2803.0	3190.7	3430.5	3430.5
22.5°	2329.9	2328.1	2339.1	2329.9	2363.0	2478.7	2776.4	3257.8	3628.1	3642.8
25°	2498.0	2488.8	2486.1	2465.0	2471.4	2538.4	2805.8	3334.1	3862.3	3892.7
27.5°	2722.2	2707.5	2697.4	2648.7	2632.2	2661.6	2895.8	3425.9	4123.3	4175.6
30°	3014.4	2987.7	2973.0	2888.5	2828.8	2833.4	3031.8	3548.1	4396.1	4480.6
32.5°	3413.1	3371.7	3332.2	3193.5	3084.2	3048.3	3207.3	3717.2	4692.0	4827.0
35°	3859.6	3826.5	3784.2	3570.2	3402.1	3319.4	3444.3	3953.3	5038.3	5252.4
37.5°	4289.5	4261.1	4281.3	3992.8	3776.0	3655.6	3754.8	4270.3	5465.5	5781.6
40°	4734.2	4712.2	4714.9	4439.3	4186.6	4051.6	4131.5	4668.1	5955.2	6410.9
42.5°	5217.5	5200.9	5145.8	4901.4	4617.5	4491.7	4565.2	5127.4	6480.7	7127.5
45°	5758.6	5748.5	5697.0	5416.8	5091.6	4950.1	5049.3	5634.6	7009.0	7801.8
47.5°	6226.2	6234.5	6228.1	5992.0	5654.8	5447.1	5565.7	6163.8	7500.5	8435.8
50°	6451.3	6494.5	6557.9	6484.4	6274.9	6063.6	6086.6	6674.6	7969.1	9030.2
52.5°	6333.7	6415.5	6588.2	6705.8	6786.7	6742.6	6681.0	7181.7	8410.0	9566.7
55°	5895.5	6010.3	6297.0	6580.9	6993.4	7314.0	7394.9	7744.0	8840.0	10039.0
57.5°	5097.1	5283.6	5540.9	6115.1	6809.6	7590.5	8227.2	8524.0	9295.7	10543.3
60°	3728.2	3978.1	4297.8	5152.2	6166.5	7442.6	8935.6	9722.0	9943.4	11196.6
62.5°	2385.9	2540.3	2834.3	3639.1	4805.0	6684.7	9152.4	11219.5	11041.3	12267.8
65°	1633.5	1732.7	2001.9	2453.9	3106.2	4975.8	8571.7	12342.2	12785.0	13965.6
67.5°	1187.0	1262.3	1492.0	1888.0	2024.0	2944.5	6651.6	12290.8	14480.1	15714.9
70°	865.4	918.7	1111.7	1492.0	1557.2	1638.1	4029.5	10447.8	14443.3	16179.7
72.5°	641.3	678.0	807.6	1157.6	1260.5	1106.2	1994.6	7593.3	12411.1	14634.4
75°	464.0	491.5	587.1	885.7	1008.8	842.5	995.0	4437.5	8657.2	10294.4
77.5°	354.6	375.8	438.2	648.6	807.6	632.1	617.4	2041.4	4104.9	4125.1
80°	284.8	298.6	332.6	456.6	619.2	473.1	402.4	824.1	1297.2	1097.9
82.5°	209.5	232.4	281.1	320.6	442.8	326.1	245.3	416.2	493.4	424.5
85°	119.4	135.1	170.0	229.7	283.0	199.4	140.6	184.7	229.7	188.3
87.5°	42.3	55.1	59.7	90.0	123.1	82.7	54.2	53.3	75.3	56.0
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°
2538.4	0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2566.0	2.5°	2556.8	2552.2	2533.9	2509.0	2483.3	2458.5	2450.3	2432.8	2420.9	2414.4
2625.7	5°	2608.3	2593.6	2550.4	2495.3	2437.4	2374.9	2330.8	2290.4	2261.0	2233.4
2707.5	7.5°	2681.8	2656.0	2581.6	2485.2	2382.3	2278.4	2201.3	2142.5	2103.0	2077.2
2803.0	10°	2767.2	2727.7	2613.8	2469.5	2310.6	2161.8	2070.8	2020.3	1995.5	1981.7
2912.4	12.5°	2865.5	2809.5	2646.9	2433.7	2201.3	2031.3	1968.8	1954.1	1955.1	1956.0
3050.2	15°	2986.8	2908.7	2673.5	2355.6	2058.9	1931.2	1920.1	1944.0	1968.8	1980.8
3206.4	17.5°	3123.7	3013.4	2678.1	2227.0	1919.2	1866.9	1901.8	1953.2	1990.9	2007.4
3380.9	20°	3270.7	3120.0	2645.0	2045.1	1804.4	1814.5	1877.0	1943.1	1984.5	2005.6
3580.3	22.5°	3438.8	3233.9	2566.0	1854.0	1710.7	1757.5	1831.0	1895.3	1938.5	1959.6
3814.6	25°	3630.8	3361.6	2442.0	1693.2	1629.8	1693.2	1766.7	1820.0	1854.9	1874.2
4076.4	27.5°	3844.0	3494.8	2276.6	1565.5	1559.1	1627.1	1687.7	1729.0	1747.4	1762.1
4354.8	30°	4058.0	3616.1	2076.3	1469.0	1497.5	1561.8	1605.0	1623.4	1628.9	1631.7
4665.3	32.5°	4289.5	3720.9	1865.9	1389.1	1438.7	1498.4	1524.2	1532.4	1506.7	1489.3
5042.0	35°	4569.8	3832.9	1660.1	1325.7	1380.9	1432.3	1440.6	1433.2	1402.9	1367.1
5514.2	37.5°	4916.1	3972.6	1495.7	1280.7	1326.6	1360.6	1350.5	1348.7	1351.5	1309.2
6082.0	40°	5340.6	4154.5	1375.3	1245.8	1282.5	1289.9	1261.4	1277.0	1290.8	1226.5
6704.9	42.5°	5811.9	4374.1	1299.1	1221.9	1245.8	1228.3	1184.2	1201.7	1199.9	1115.3
7330.5	45°	6292.4	4612.9	1272.4	1204.5	1211.8	1176.9	1128.2	1132.8	1094.2	1018.0
7930.5	47.5°	6770.1	4869.3	1289.0	1189.8	1169.5	1130.0	1092.4	1072.2	1015.2	958.2
8505.6	50°	7238.7	5138.5	1349.6	1160.4	1111.7	1088.7	1061.1	1025.3	964.7	916.0
9049.5	52.5°	7673.2	5409.5	1417.6	1111.7	1039.1	1052.9	1035.4	994.1	934.3	884.7
9564.0	55°	8084.8	5680.5	1444.2	1044.6	971.1	1021.6	1011.5	935.3	863.6	823.2
10102.3	57.5°	8533.2	6006.7	1414.8	959.2	916.0	985.8	947.2	862.7	821.3	791.0
10803.3	60°	9154.2	6518.4	1351.5	853.5	863.6	932.5	866.4	831.4	786.4	752.4
11854.4	62.5°	10186.0	7472.9	1249.5	748.8	802.1	853.5	827.8	792.9	746.9	713.9
13651.4	65°	11711.0	8799.6	1057.5	667.0	733.1	776.3	786.4	751.5	703.7	668.8
15226.1	67.5°	12997.3	9632.0	800.2	599.0	662.4	713.9	742.3	708.3	657.8	623.8
15594.5	70°	12926.5	9027.4	611.0	531.9	599.9	652.3	689.0	662.4	608.2	576.0
14165.0	72.5°	11481.4	7552.0	494.3	464.0	536.5	588.0	632.1	611.9	556.7	525.5
10377.0	75°	8434.9	5360.8	395.1	395.1	457.5	520.9	569.6	556.7	506.2	484.2
4356.6	77.5°	3555.5	2249.0	309.6	328.0	380.4	447.4	508.1	512.7	468.6	496.1
1152.1	80°	945.4	620.1	236.1	258.2	298.6	369.3	441.9	440.1	392.3	366.6
428.1	82.5°	360.1	244.4	168.1	181.9	215.9	283.0	350.0	361.1	313.3	271.0
168.1	85°	138.7	104.7	103.8	109.3	125.9	187.4	264.6	273.8	236.1	200.3
46.9	87.5°	35.8	31.2	38.6	36.7	57.9	100.1	151.6	157.1	144.2	83.6
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°
2538.4
2421.8
2244.5
2082.8
1985.4
1957.8
1979.9
2011.1
2011.1
1965.2
1879.7
1767.6
1638.1
1494.8
1368.9
1311.9
1228.3
1114.4
1020.7
958.2
912.3
885.7
819.5
788.3
750.6
713.9
670.7
624.7
578.8
525.5
477.7
450.2
340.8
271.0
206.7
119.4
0.0

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