

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: P852643

Luminaire Tested: **GLAN-SB5B-830-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24140 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

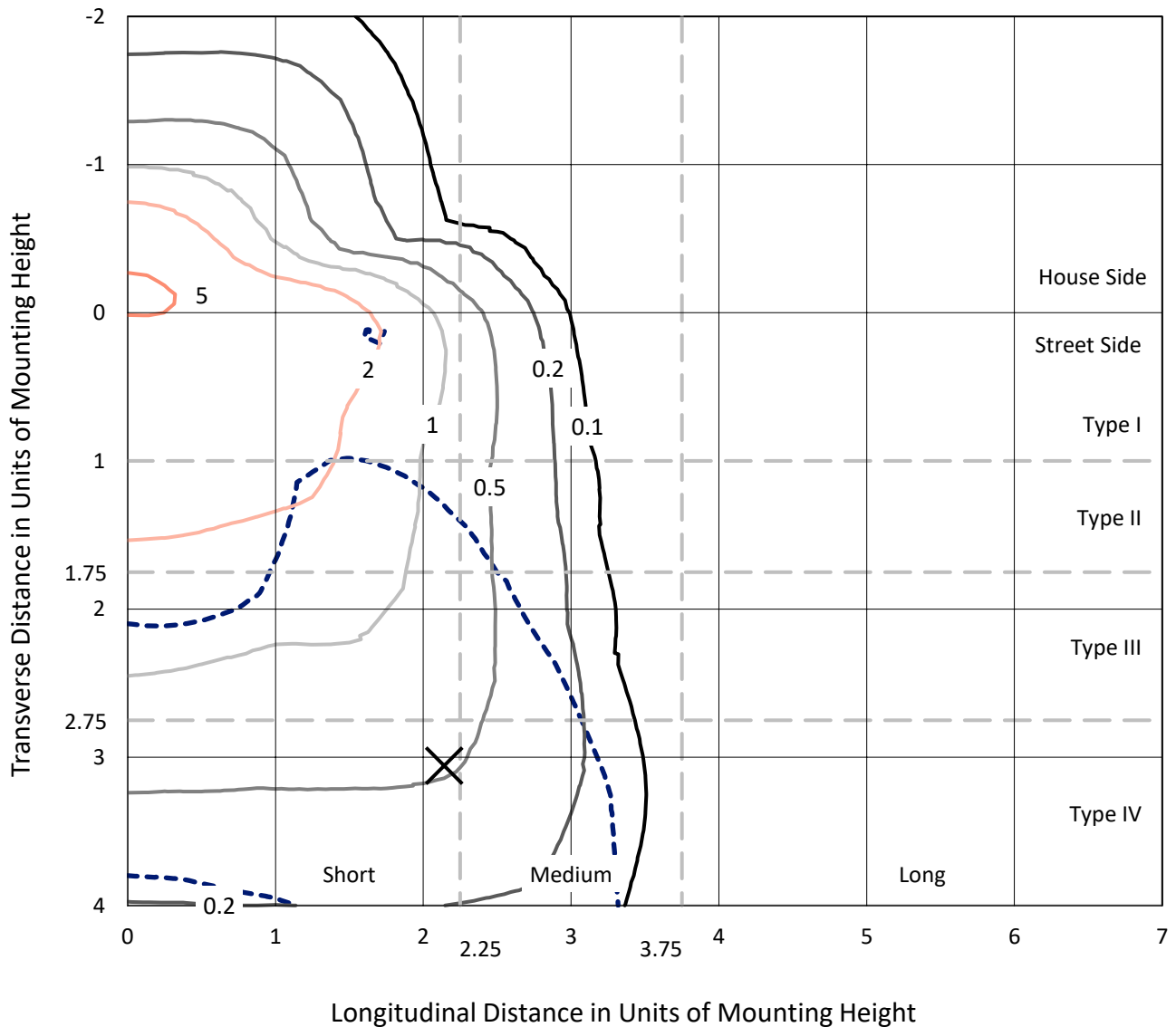
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

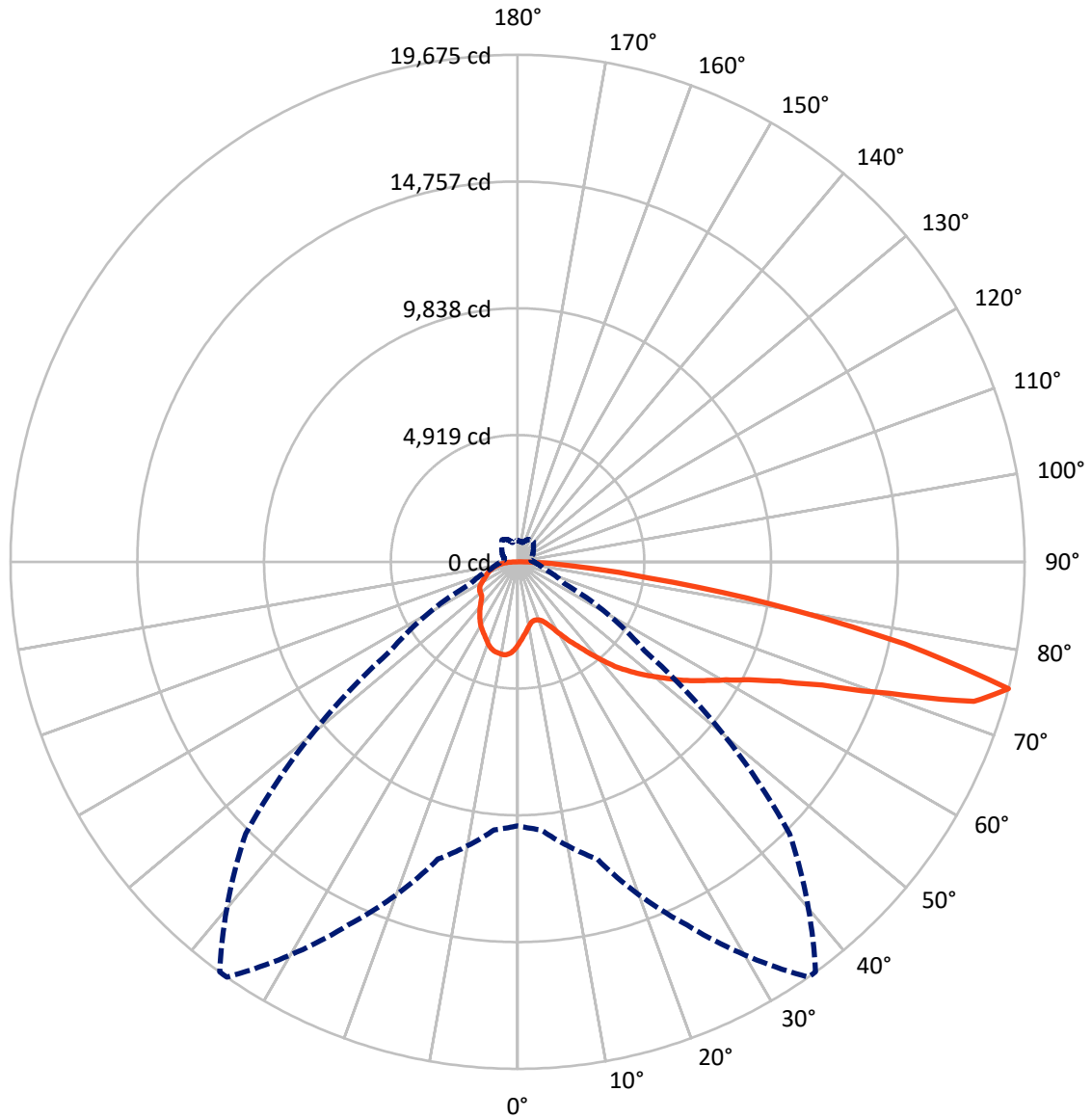
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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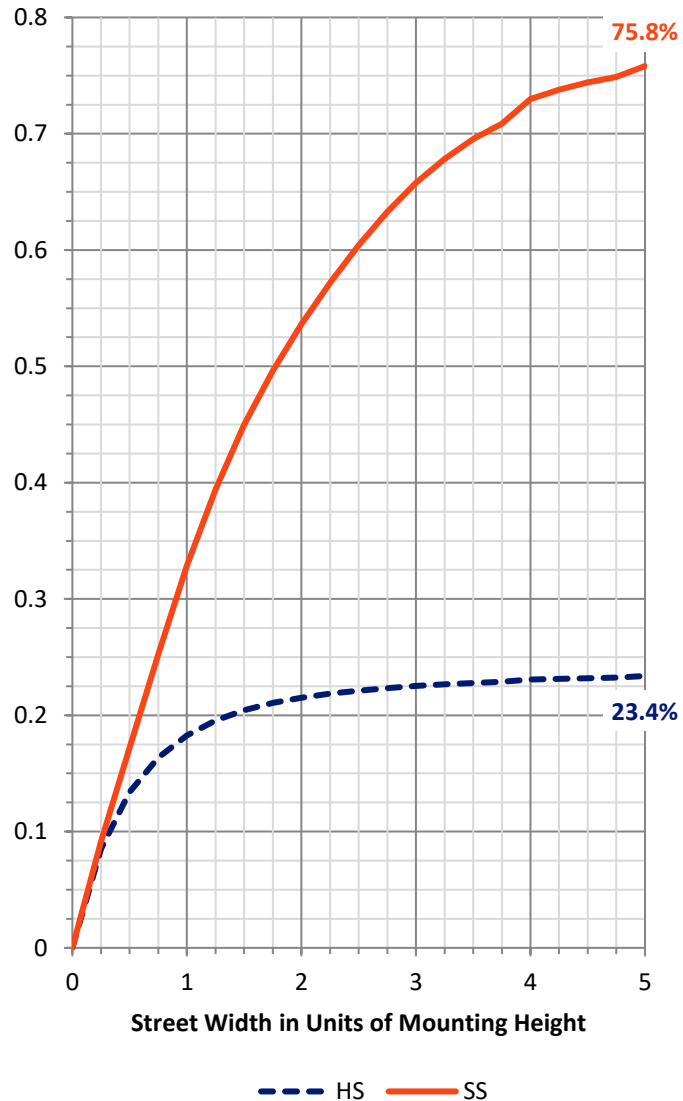
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5744.7	0.0	5744.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18395.3	0.0	18395.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	24140.0	0.0	24140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	1.3
10°-20°	878.5	3.6
20°-30°	1475.2	6.1
30°-40°	2292.7	9.5
40°-50°	3403.0	14.1
50°-60°	4698.1	19.5
60°-70°	5699.8	23.6
70°-80°	4710.5	19.5
80°-90°	677.5	2.8
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°	24140.0	100.0
0°-180°	24140.0	100.0

Coefficient of Utilization



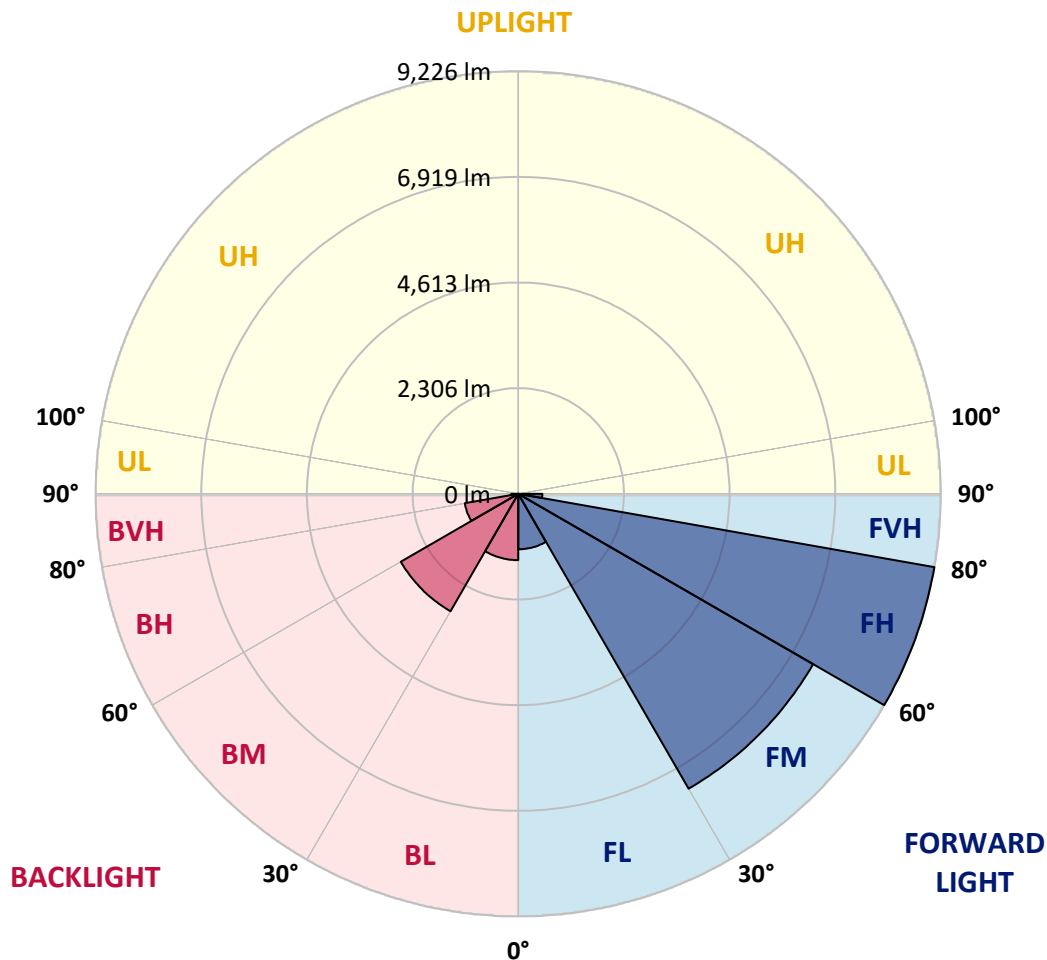
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 CATALOG NUMBER: GLAN-SB5B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.6	5.0			
FM (30°-60°)	7433.8	30.8			
FH (60°-80°)	9225.9	38.2			G4/12000
FVH (80°-90°)	525.0	2.2			G4/750
BL (0°-30°)	1447.7	6.0	B3/2500		
BM (30°-60°)	2960.0	12.3	B3/5000		
BH (60°-80°)	1184.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	152.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8
2.5°	2966.3	2984.5	2992.4	2988.4	3008.0	3005.4	3032.8	3066.7	3113.7	3159.4
5°	2737.9	2757.5	2774.4	2790.1	2827.9	2839.7	2882.7	2948.0	3034.1	3121.6
7.5°	2525.2	2542.1	2568.2	2596.9	2660.9	2672.6	2744.4	2846.2	2966.3	3094.1
10°	2351.6	2368.6	2396.0	2428.6	2508.2	2522.6	2613.9	2749.6	2906.2	3068.0
12.5°	2277.2	2282.4	2298.1	2330.7	2399.9	2409.0	2509.5	2664.8	2847.5	3048.5
15°	2273.3	2283.7	2285.1	2302.0	2359.4	2363.4	2456.0	2610.0	2811.0	3044.6
17.5°	2312.5	2320.3	2308.5	2319.0	2367.3	2373.8	2446.9	2583.9	2799.2	3061.5
20°	2416.9	2423.4	2388.1	2373.8	2409.0	2414.2	2486.0	2600.9	2811.0	3096.8
22.5°	2638.7	2642.6	2556.5	2497.8	2500.4	2503.0	2565.6	2670.0	2856.6	3160.7
25°	2984.5	2981.9	2844.9	2731.4	2666.1	2651.8	2693.5	2782.3	2933.6	3245.5
27.5°	3389.1	3369.5	3232.5	3062.8	2920.6	2899.7	2890.6	2928.4	3043.3	3357.8
30°	3845.8	3827.6	3680.1	3458.2	3261.2	3227.3	3141.1	3121.6	3206.4	3510.4
32.5°	4346.9	4335.2	4159.0	3890.2	3626.6	3587.4	3442.6	3390.4	3456.9	3741.4
35°	4767.2	4756.7	4610.6	4333.9	4011.6	3963.3	3815.8	3757.1	3791.0	4037.7
37.5°	5146.9	5141.7	5016.4	4798.5	4465.7	4407.0	4241.2	4221.7	4215.1	4427.9
40°	5499.3	5486.2	5355.7	5240.9	4994.2	4940.7	4794.6	4777.6	4728.0	4908.1
42.5°	5889.5	5855.5	5666.3	5612.8	5546.2	5501.9	5414.4	5417.0	5307.4	5449.7
45°	6207.9	6188.3	5993.9	5962.5	6034.3	6016.0	6091.7	6111.3	5898.6	6017.3
47.5°	6549.8	6531.5	6367.1	6344.9	6539.3	6544.6	6812.1	6818.6	6475.4	6607.2
50°	6971.3	6945.2	6782.1	6809.5	7027.4	7047.0	7536.4	7492.0	7006.5	7206.2
52.5°	7249.3	7264.9	7229.7	7274.1	7571.6	7589.9	8248.9	8135.4	7532.4	7797.4
55°	7454.1	7485.5	7595.1	7696.9	8145.8	8164.1	8921.0	8747.4	7968.3	8345.5
57.5°	7717.8	7673.4	7878.3	8076.6	8691.3	8739.6	9574.8	9337.3	8354.6	8817.9
60°	8096.2	8064.9	8224.1	8517.7	9302.0	9379.0	10266.4	9868.4	8637.8	9192.4
62.5°	8863.5	8785.2	8810.0	9069.7	10072.0	10173.8	11046.8	10331.7	8778.7	9338.6
65°	10010.6	9876.2	9750.9	9931.0	11156.4	11256.9	11927.7	10695.8	8726.5	9055.4
67.5°	11455.3	11322.2	11168.2	11337.8	12753.7	12833.3	13014.7	10900.6	8315.4	7964.4
70°	12646.7	12597.1	12781.1	13479.3	15305.0	15307.6	14408.5	10731.0	7189.2	5646.7
72.5°	12488.8	12458.8	13428.4	15586.9	18520.5	18451.4	15727.8	9446.9	4842.8	2547.4
75°	10245.5	10440.0	11942.0	15549.0	19675.4	19666.3	14920.0	6005.6	2003.2	1055.7
77.5°	5494.0	5802.0	7753.0	11480.1	15359.8	15590.8	10489.6	2101.0	860.0	676.0
80°	1791.8	2060.6	3090.2	5845.1	9980.6	9937.6	4495.7	824.8	588.6	478.9
82.5°	760.8	792.1	1380.7	2760.1	5122.1	5042.5	1431.6	473.7	413.7	327.6
85°	297.5	332.8	609.4	1276.3	2218.5	2170.2	516.8	234.9	264.9	214.0
87.5°	97.9	118.8	217.9	437.2	690.3	665.5	126.6	80.9	114.8	97.9
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°
3216.8	0°	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8	3216.8
3226.0	2.5°	3244.2	3265.1	3289.9	3326.4	3357.8	3383.9	3411.3	3428.2	3434.8	3454.3
3231.2	5°	3267.7	3313.4	3374.7	3434.8	3493.5	3528.7	3560.0	3575.7	3590.0	3600.5
3245.5	7.5°	3306.9	3365.6	3462.2	3540.5	3590.0	3618.8	3639.6	3634.4	3639.6	3642.2
3261.2	10°	3340.8	3423.0	3537.8	3612.2	3650.1	3651.4	3646.2	3627.9	3618.8	3620.1
3284.7	12.5°	3381.2	3472.6	3596.6	3659.2	3669.7	3640.9	3618.8	3587.4	3575.7	3570.5
3319.9	15°	3436.1	3540.5	3660.5	3684.0	3657.9	3621.4	3583.5	3532.6	3506.5	3485.6
3379.9	17.5°	3502.6	3617.5	3710.1	3693.1	3637.0	3577.0	3515.7	3438.7	3385.2	3363.0
3462.2	20°	3595.3	3698.4	3748.0	3673.6	3588.7	3497.4	3393.0	3299.0	3249.4	3227.3
3566.6	22.5°	3707.5	3806.7	3784.5	3639.6	3519.6	3373.4	3242.9	3173.8	3149.0	3133.3
3701.0	25°	3841.9	3926.7	3810.6	3590.0	3406.0	3209.0	3108.5	3086.3	3074.6	3062.8
3865.4	27.5°	4016.8	4062.5	3830.2	3517.0	3228.6	3034.1	2997.6	3001.5	2997.6	2978.0
4093.8	30°	4247.8	4238.6	3848.4	3398.2	3025.0	2876.2	2878.8	2895.8	2898.4	2885.3
4412.2	32.5°	4551.8	4459.2	3857.6	3244.2	2830.5	2737.9	2740.5	2758.8	2771.8	2749.6
4828.5	35°	4919.8	4716.3	3843.2	3051.1	2680.5	2606.1	2586.5	2591.7	2595.6	2574.8
5333.5	37.5°	5349.2	5004.7	3779.3	2837.1	2556.5	2476.9	2435.1	2399.9	2379.0	2359.4
5905.1	40°	5820.3	5319.2	3661.8	2628.3	2418.2	2339.9	2277.2	2210.7	2140.2	2114.1
6510.6	42.5°	6313.6	5642.8	3519.6	2428.6	2259.0	2195.0	2128.5	2031.9	1926.2	1872.7
7139.6	45°	6825.1	5974.3	3379.9	2231.5	2095.8	2068.4	1991.4	1875.3	1760.4	1692.6
7770.0	47.5°	7326.3	6287.5	3175.1	2033.2	1943.1	1973.2	1913.1	1806.1	1678.2	1571.2
8395.0	50°	7805.2	6581.1	2839.7	1832.2	1819.2	1944.4	1887.0	1733.0	1586.9	1449.9
9008.4	52.5°	8280.2	6818.6	2410.3	1649.5	1752.6	1936.6	1853.1	1683.4	1504.7	1361.1
9585.2	55°	8683.5	6941.3	1996.6	1492.9	1656.0	1870.1	1812.6	1624.7	1388.5	1235.8
9980.6	57.5°	8913.1	6842.1	1652.1	1338.9	1522.9	1760.4	1743.5	1499.4	1250.2	1132.7
10057.6	60°	8814.0	6440.2	1370.2	1204.5	1396.3	1641.7	1623.4	1375.5	1144.5	1033.6
9645.2	62.5°	8267.2	5674.1	1147.1	1087.1	1281.5	1520.3	1503.4	1280.2	1063.6	956.6
8550.3	65°	7165.7	4615.8	973.5	989.2	1165.4	1374.2	1399.0	1200.6	999.6	895.2
6615.0	67.5°	5465.3	3343.4	837.8	904.4	1051.8	1230.6	1302.4	1143.2	946.1	846.9
3827.6	70°	3115.0	1898.8	723.0	822.1	951.3	1097.5	1228.0	1097.5	888.7	806.5
1434.2	72.5°	1181.0	871.7	625.1	739.9	854.8	985.3	1145.8	1025.7	822.1	760.8
741.2	75°	630.3	531.1	525.9	643.4	743.8	875.7	1042.7	955.3	772.6	803.9
512.9	77.5°	429.3	375.8	439.8	550.7	622.5	754.3	933.1	848.2	669.5	666.9
355.0	80°	297.5	266.2	357.6	443.7	481.5	634.2	814.3	728.2	545.5	508.9
219.2	82.5°	178.8	173.6	267.5	331.5	340.6	489.4	674.7	610.7	446.3	388.9
130.5	85°	97.9	103.1	171.0	194.4	198.4	341.9	528.5	472.4	343.2	288.4
47.0	87.5°	27.4	35.2	62.6	77.0	95.3	177.5	314.5	280.6	172.3	120.1
0.0	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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180°
3216.8
3453.0
3603.1
3646.2
3622.7
3567.9
3492.2
3364.3
3224.6
3135.9
3062.8
2981.9
2891.9
2760.1
2589.1
2372.5
2125.8
1879.2
1687.4
1559.5
1438.1
1345.5
1222.8
1117.1
1017.9
939.6
878.3
831.3
796.0
750.4
830.0
614.7
486.8
391.5
291.0
120.1
0.0

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