

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: P849848

Luminaire Tested: **GLAN-SB7A-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7A-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25452 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

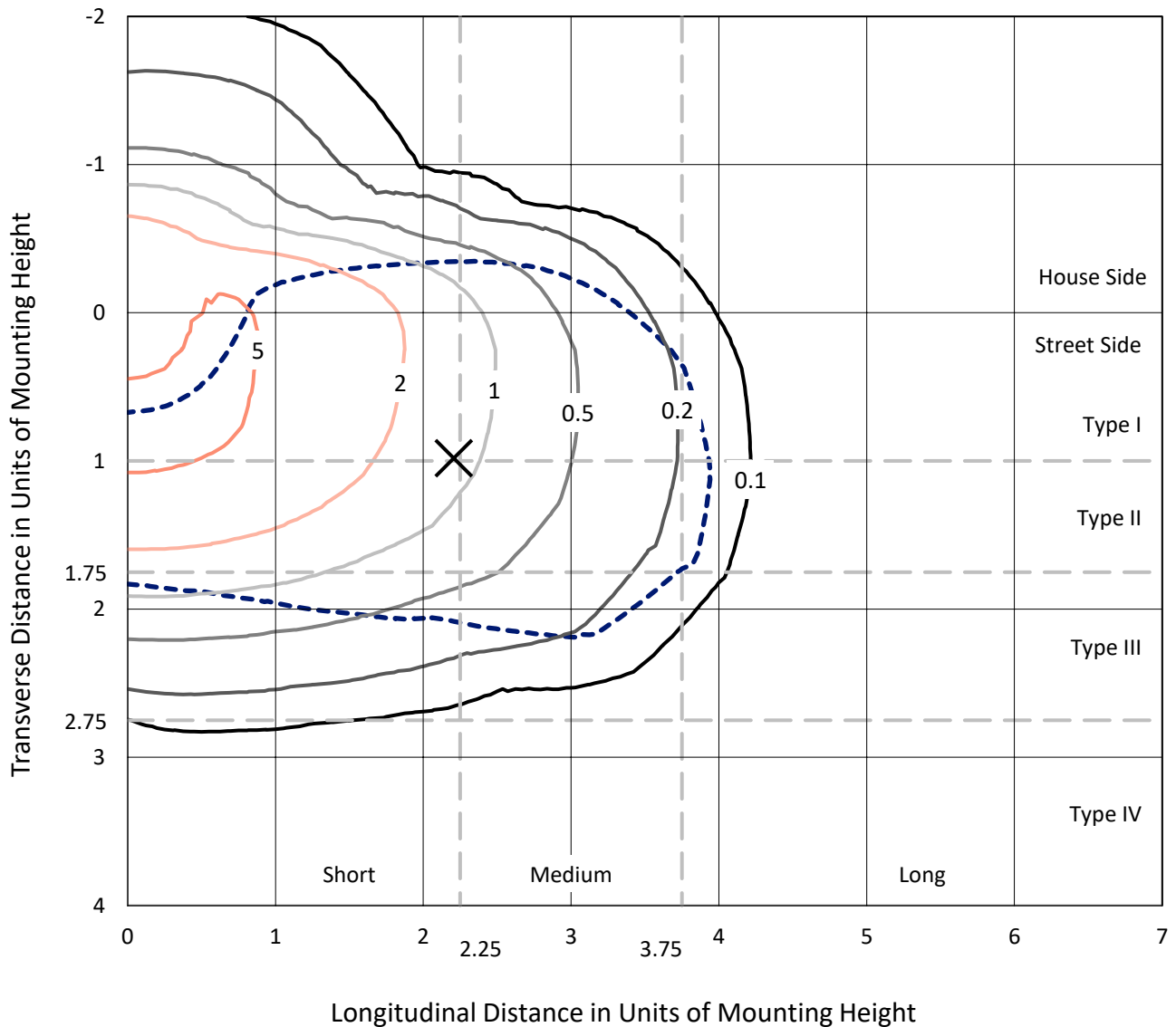
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

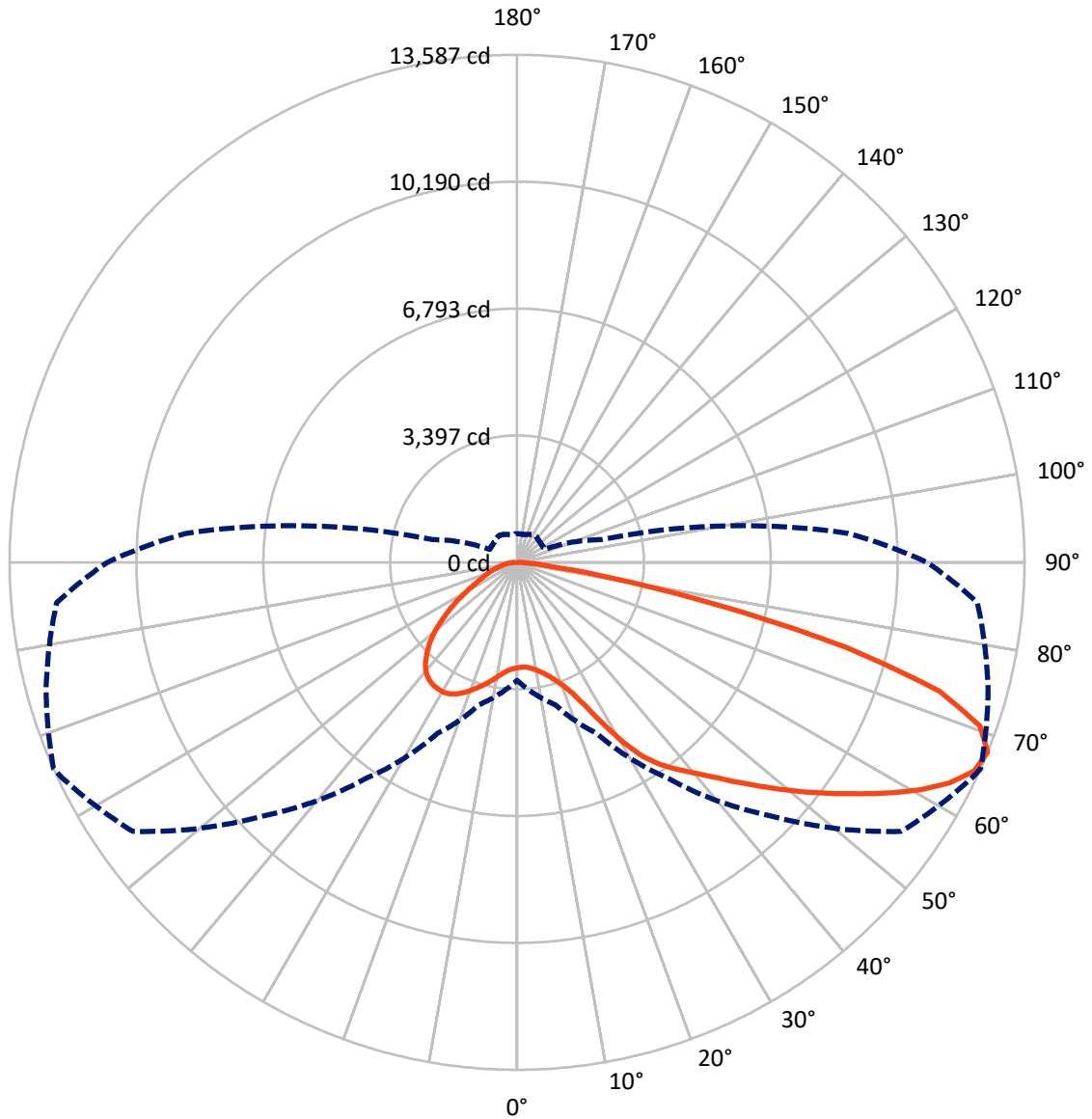
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6328.6	0.0	6328.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19123.4	0.0	19123.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	25452.0	0.0	25452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	1.1
10°-20°	924.7	3.6
20°-30°	1782.3	7.0
30°-40°	3125.1	12.3
40°-50°	4645.9	18.3
50°-60°	5889.2	23.1
60°-70°	5762.4	22.6
70°-80°	2748.7	10.8
80°-90°	293.8	1.2
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°	25452.0	100.0
0°-180°	25452.0	100.0

Coefficient of Utilization



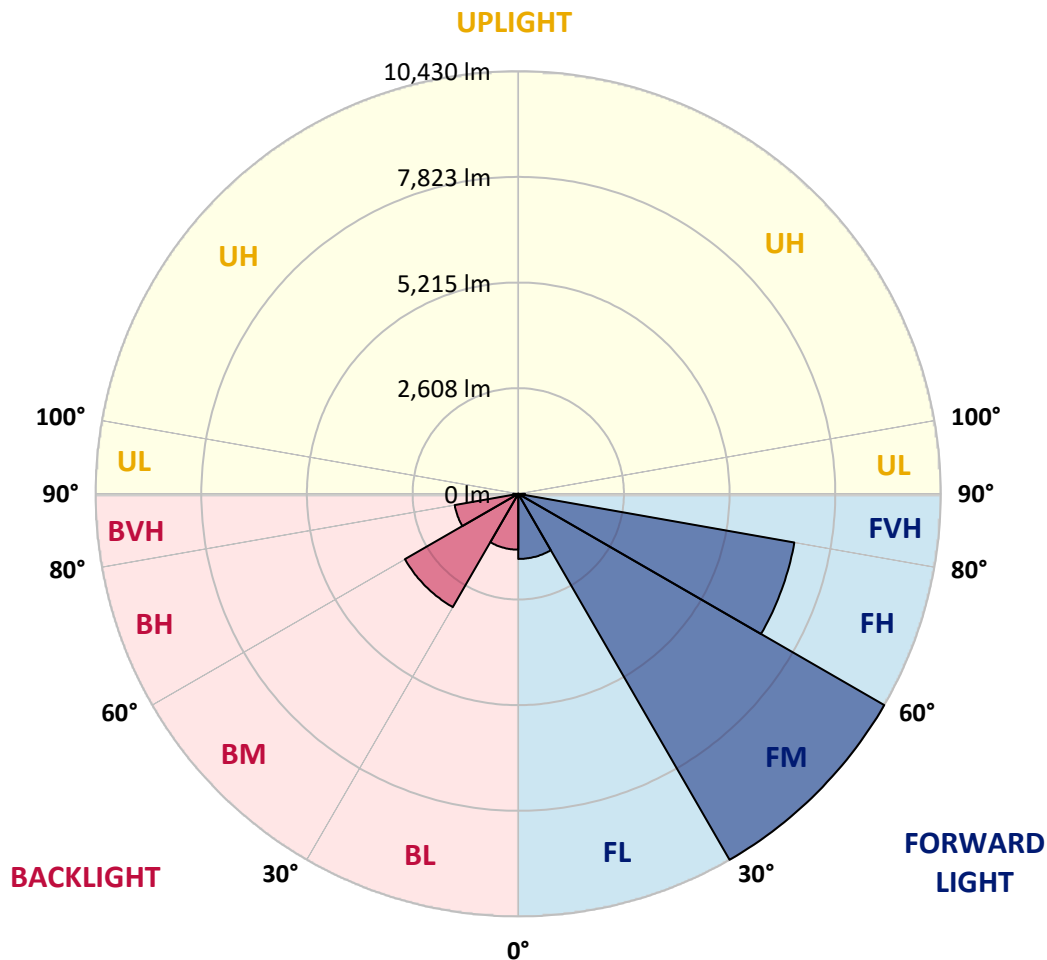
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.3	6.3			
FM (30°-60°)	10430.0	41.0			
FH (60°-80°)	6918.5	27.2			G3/7500
FVH (80°-90°)	166.5	0.7			G2/225
BL (0°-30°)	1378.6	5.4	B3/2500		
BM (30°-60°)	3230.2	12.7	B3/5000		
BH (60°-80°)	1592.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	127.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2793.5	2809.6	2805.6	2798.9	2797.6	2800.2	2804.2	2808.3	2806.9	2813.6
5°	2785.5	2801.6	2800.2	2800.2	2805.6	2816.3	2823.0	2829.6	2823.0	2831.0
7.5°	2790.9	2802.9	2808.3	2813.6	2827.0	2847.0	2863.1	2877.8	2869.8	2879.1
10°	2859.1	2868.4	2873.8	2873.8	2883.1	2905.9	2921.9	2948.7	2942.0	2956.7
12.5°	2983.4	2992.8	2992.8	2987.4	2994.1	3008.8	3014.2	3043.6	3031.6	3055.6
15°	3135.9	3154.6	3139.9	3130.5	3133.2	3147.9	3146.6	3169.3	3157.3	3177.3
17.5°	3304.4	3328.4	3304.4	3303.0	3297.7	3313.7	3315.1	3335.1	3313.7	3328.4
20°	3503.6	3537.1	3517.0	3523.7	3511.7	3518.3	3525.0	3554.4	3521.0	3531.7
22.5°	3784.5	3824.6	3803.2	3828.6	3820.6	3815.2	3813.9	3866.0	3813.9	3817.9
25°	4193.7	4241.8	4204.4	4239.1	4239.1	4256.5	4276.6	4343.4	4256.5	4231.1
27.5°	4798.1	4846.2	4772.7	4794.1	4787.4	4830.2	4808.8	4974.6	4881.0	4839.6
30°	5525.6	5611.2	5472.1	5466.7	5460.0	5528.2	5559.0	5668.7	5573.7	5532.3
32.5°	6311.9	6401.5	6235.7	6187.5	6162.1	6203.6	6178.2	6266.4	6200.9	6136.7
35°	7143.7	7231.9	7074.1	6980.5	6878.9	6792.0	6701.0	6723.8	6662.2	6564.6
37.5°	7930.0	8091.8	7924.6	7824.3	7637.1	7467.3	7213.2	7107.6	7050.1	6960.5
40°	8731.0	8823.3	8696.2	8610.6	8407.4	8141.3	7734.7	7511.4	7433.8	7346.9
42.5°	9320.7	9409.0	9340.8	9281.9	9122.8	8813.9	8288.4	8008.9	7896.5	7798.9
45°	9788.8	9854.3	9811.5	9832.9	9764.7	9465.2	8862.0	8542.4	8426.1	8307.1
47.5°	9977.3	10046.9	10115.1	10242.1	10358.4	10137.8	9478.5	9120.1	8997.1	8875.4
50°	9955.9	10026.8	10224.7	10494.8	10855.9	10782.4	10128.4	9735.3	9621.6	9482.5
52.5°	9784.8	9865.0	10119.1	10568.4	11143.4	11265.1	10790.4	10370.5	10263.5	10097.7
55°	9335.4	9383.6	9764.7	10401.2	11211.6	11602.1	11439.0	11047.1	10940.2	10708.8
57.5°	8502.3	8571.9	9126.8	9950.6	11040.4	11830.8	12008.6	11758.6	11655.6	11322.6
60°	7415.1	7526.1	8161.3	9193.7	10604.5	11829.4	12526.1	12457.9	12372.4	11927.1
62.5°	6184.8	6313.2	6924.4	8123.9	9842.3	11493.8	12849.8	13043.7	12999.5	12484.7
65°	4750.0	4838.2	5446.7	6739.8	8656.1	10773.0	12887.2	13443.5	13451.5	12908.6
67.5°	3162.6	3416.7	3944.9	5057.5	7067.4	9594.9	12558.2	13509.0	13586.6	13054.4
70°	1543.2	1877.5	2395.0	3287.0	5057.5	7788.2	11698.4	12971.5	13144.0	12629.1
72.5°	640.5	748.9	1031.0	1622.1	2903.2	5255.4	9970.6	11513.8	11833.4	11190.2
75°	431.9	468.0	589.7	831.8	1322.6	2591.6	7190.5	8585.2	9100.1	8451.5
77.5°	333.0	355.7	429.3	581.7	786.3	980.2	3848.6	5173.9	5440.0	5036.1
80°	262.1	279.5	320.9	423.9	557.6	524.2	1311.9	2344.2	2498.0	2095.5
82.5°	227.3	234.0	230.0	287.5	370.4	306.2	430.6	865.2	954.8	692.7
85°	164.5	183.2	191.2	177.9	196.6	155.1	176.5	306.2	337.0	300.9
87.5°	66.9	99.0	121.7	115.0	72.2	44.1	54.8	89.6	103.0	112.3
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°
2823.0	0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2824.3	2.5°	2825.6	2835.0	2841.7	2849.7	2855.1	2863.1	2879.1	2888.5	2889.8	2896.5
2845.7	5°	2851.0	2864.4	2879.1	2900.5	2924.6	2944.7	2975.4	2996.8	3004.8	3011.5
2897.8	7.5°	2905.9	2924.6	2951.3	2988.8	3023.6	3050.3	3087.7	3113.1	3138.6	3147.9
2980.8	10°	2987.4	3014.2	3053.0	3103.8	3141.2	3176.0	3214.8	3236.2	3261.6	3272.3
3079.7	12.5°	3089.1	3117.2	3168.0	3238.9	3273.6	3297.7	3311.1	3305.7	3311.1	3320.4
3198.7	15°	3205.4	3236.2	3293.7	3369.9	3394.0	3372.6	3343.2	3316.4	3312.4	3315.1
3343.2	17.5°	3343.2	3365.9	3432.8	3496.9	3479.6	3391.3	3327.1	3284.3	3262.9	3256.2
3527.7	20°	3535.7	3535.7	3590.6	3630.7	3514.3	3364.6	3264.3	3194.7	3150.6	3131.9
3779.1	22.5°	3769.7	3748.3	3783.1	3755.0	3507.6	3289.7	3150.6	3030.2	2963.4	2936.6
4130.8	25°	4066.6	4041.2	4031.8	3858.0	3459.5	3170.7	2944.7	2798.9	2740.1	2725.3
4637.6	27.5°	4514.6	4450.4	4328.7	3914.2	3371.2	2983.4	2703.9	2568.9	2535.5	2536.8
5288.9	30°	5111.0	4982.6	4684.4	3923.5	3226.8	2718.7	2457.9	2361.6	2345.6	2352.2
5835.8	32.5°	5663.3	5541.6	5048.2	3880.7	3004.8	2459.2	2237.2	2173.1	2149.0	2157.0
6253.0	35°	6096.6	6063.2	5385.2	3820.6	2732.0	2215.8	2039.3	1984.5	1937.7	1927.0
6646.2	37.5°	6505.8	6492.4	5637.9	3736.3	2461.9	2043.3	1880.2	1808.0	1739.8	1702.3
7080.8	40°	6955.1	6941.7	5803.7	3606.6	2222.5	1893.6	1737.1	1642.2	1557.9	1489.7
7572.9	42.5°	7460.6	7381.7	5882.6	3420.7	2019.3	1766.5	1620.8	1492.4	1381.4	1318.5
8129.2	45°	8012.9	7835.0	5881.3	3184.0	1848.1	1650.2	1496.4	1314.5	1211.6	1152.7
8700.2	47.5°	8598.6	8268.3	5809.1	2921.9	1682.3	1521.8	1303.8	1164.8	1096.6	1060.4
9320.7	50°	9203.0	8673.5	5686.0	2621.0	1512.4	1376.0	1183.5	1088.5	1036.4	1002.9
9935.9	52.5°	9771.4	9041.2	5537.6	2280.0	1339.9	1234.3	1130.0	1056.4	1001.6	964.2
10532.3	55°	10299.6	9358.2	5327.7	1931.0	1199.5	1139.3	1104.6	1043.1	980.2	936.1
11138.1	57.5°	10769.0	9564.1	4965.3	1603.4	1099.2	1073.8	1077.8	1020.3	948.1	910.7
11734.5	60°	11159.5	9715.2	4429.0	1299.8	1017.7	1009.6	1036.4	977.5	893.3	850.5
12238.6	62.5°	11393.5	9712.5	3771.1	1064.5	948.1	950.8	981.6	924.0	838.5	798.3
12502.1	65°	11373.4	9474.5	3049.0	910.7	881.3	883.9	924.0	865.2	793.0	768.9
12369.7	67.5°	10970.9	8894.1	2338.9	810.4	807.7	819.7	866.5	825.1	764.9	762.2
11580.7	70°	9881.0	7689.3	1685.0	730.1	731.5	748.9	810.4	799.7	750.2	755.6
9736.6	72.5°	7923.3	5862.6	1131.3	645.9	647.2	675.3	756.9	779.6	735.5	806.4
6908.3	75°	5276.8	3656.1	727.5	556.3	557.6	593.7	710.1	740.8	695.4	803.7
3594.6	77.5°	2535.5	1643.5	526.9	468.0	468.0	501.5	613.8	663.3	592.4	624.5
1155.4	80°	875.9	617.8	414.6	377.1	369.1	391.8	517.5	575.0	510.8	470.7
377.1	82.5°	345.0	320.9	333.0	292.9	266.1	280.8	402.5	474.7	375.8	339.7
212.6	85°	197.9	208.6	235.4	193.9	153.8	172.5	295.5	341.0	283.5	250.1
69.5	87.5°	53.5	73.5	108.3	100.3	69.5	73.5	140.4	188.6	163.1	125.7
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°
2823.0
2895.2
3010.2
3149.3
3277.6
3323.1
3324.4
3265.6
3127.9
2932.6
2728.0
2540.8
2375.0
2167.7
1935.0
1703.7
1496.4
1322.6
1150.0
1052.4
990.9
948.1
918.7
886.6
831.8
786.3
767.6
766.3
754.2
817.1
810.4
572.3
441.3
338.3
255.4
129.7
0.0

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