

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: P850696

Luminaire Tested: **GLAN-SB8B-827-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850696
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-SB8B-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35972 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

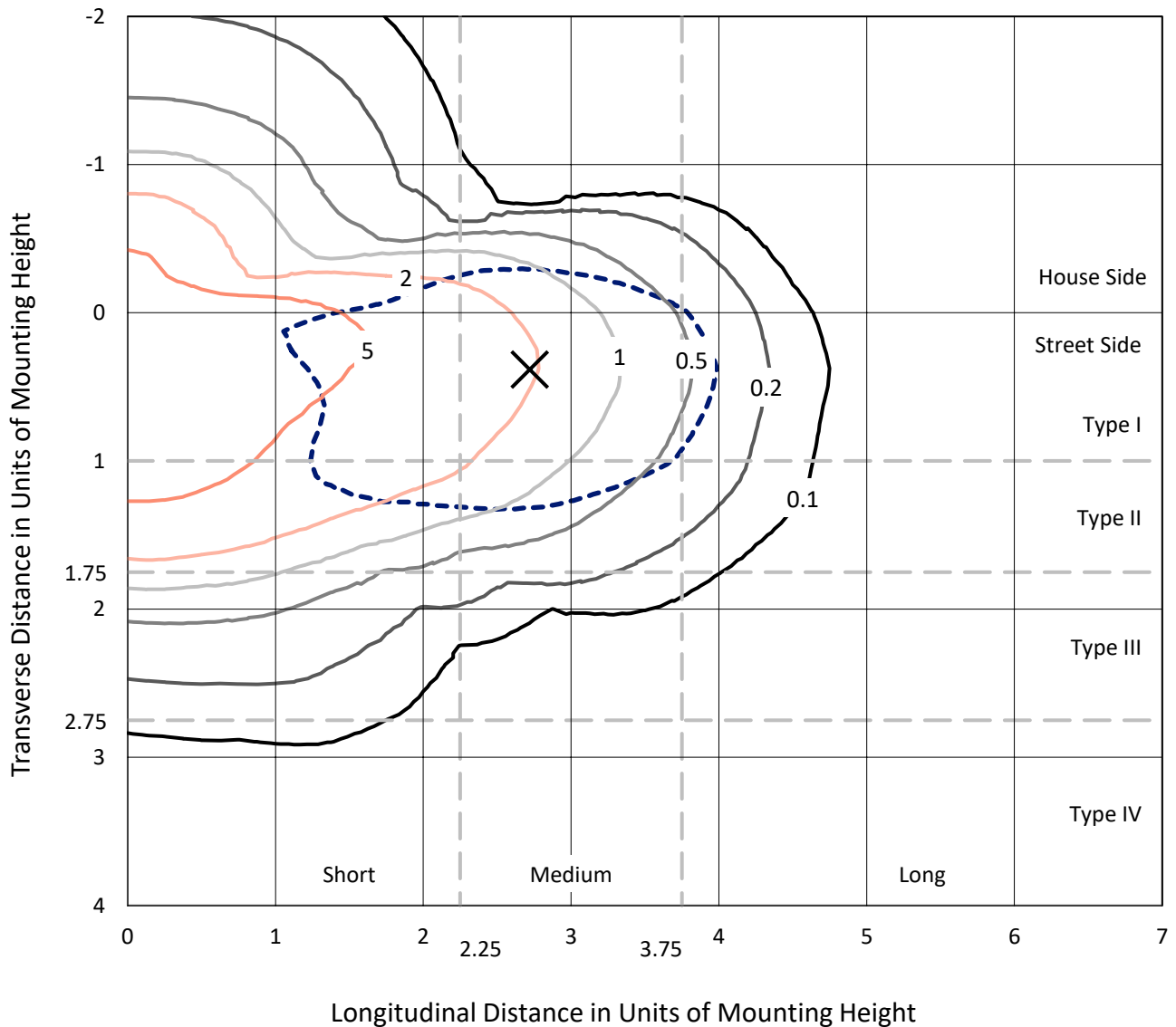
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

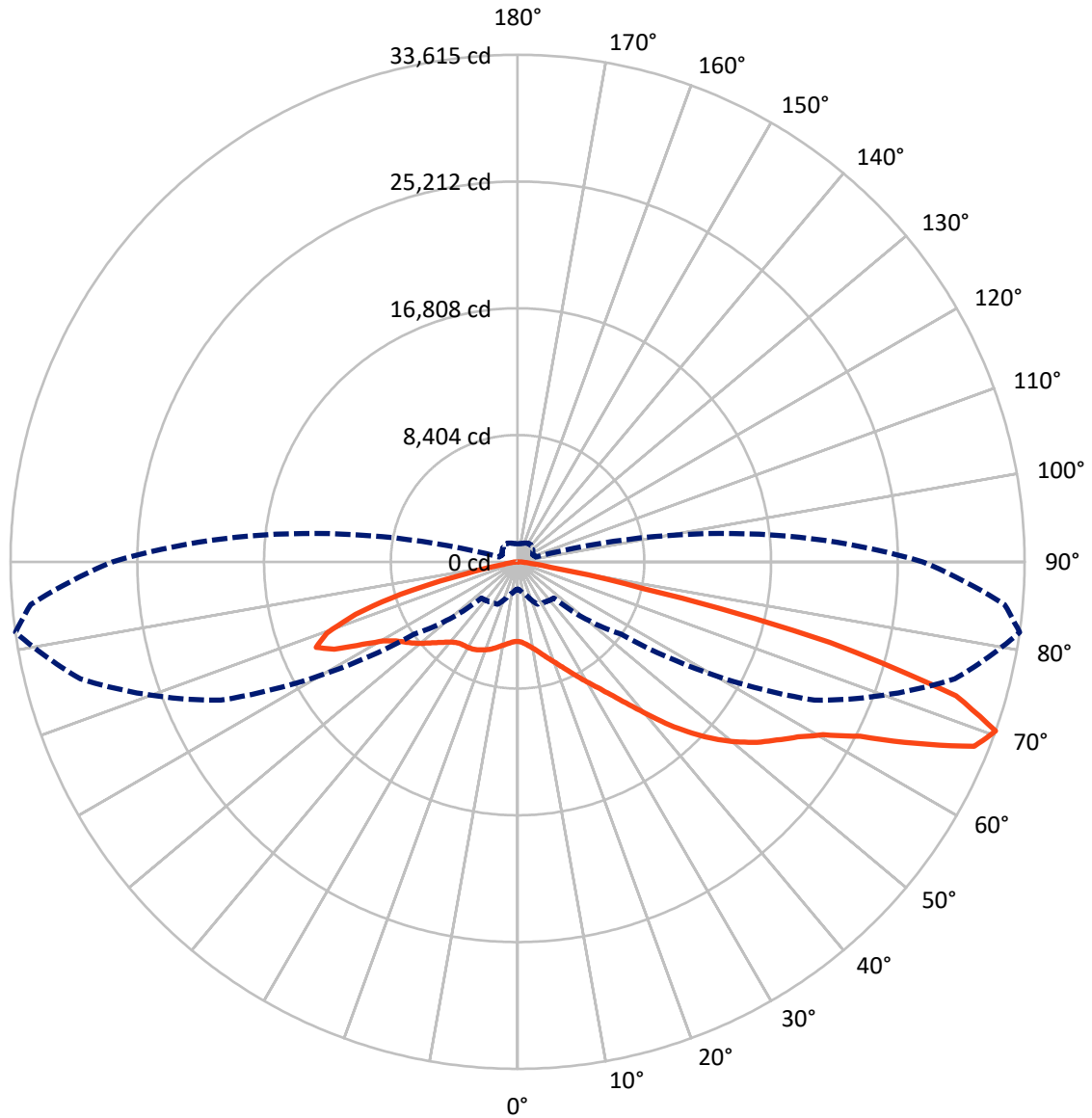
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	8868.0	0.0	8868.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27104.0	0.0	27104.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	35972.0	0.0	35972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	1.4
10°-20°	1430.6	4.0
20°-30°	2393.3	6.7
30°-40°	3739.0	10.4
40°-50°	5954.8	16.6
50°-60°	8286.8	23.0
60°-70°	8668.4	24.1
70°-80°	4530.6	12.6
80°-90°	470.4	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°	35972.0	100.0
0°-180°	35972.0	100.0

Coefficient of Utilization



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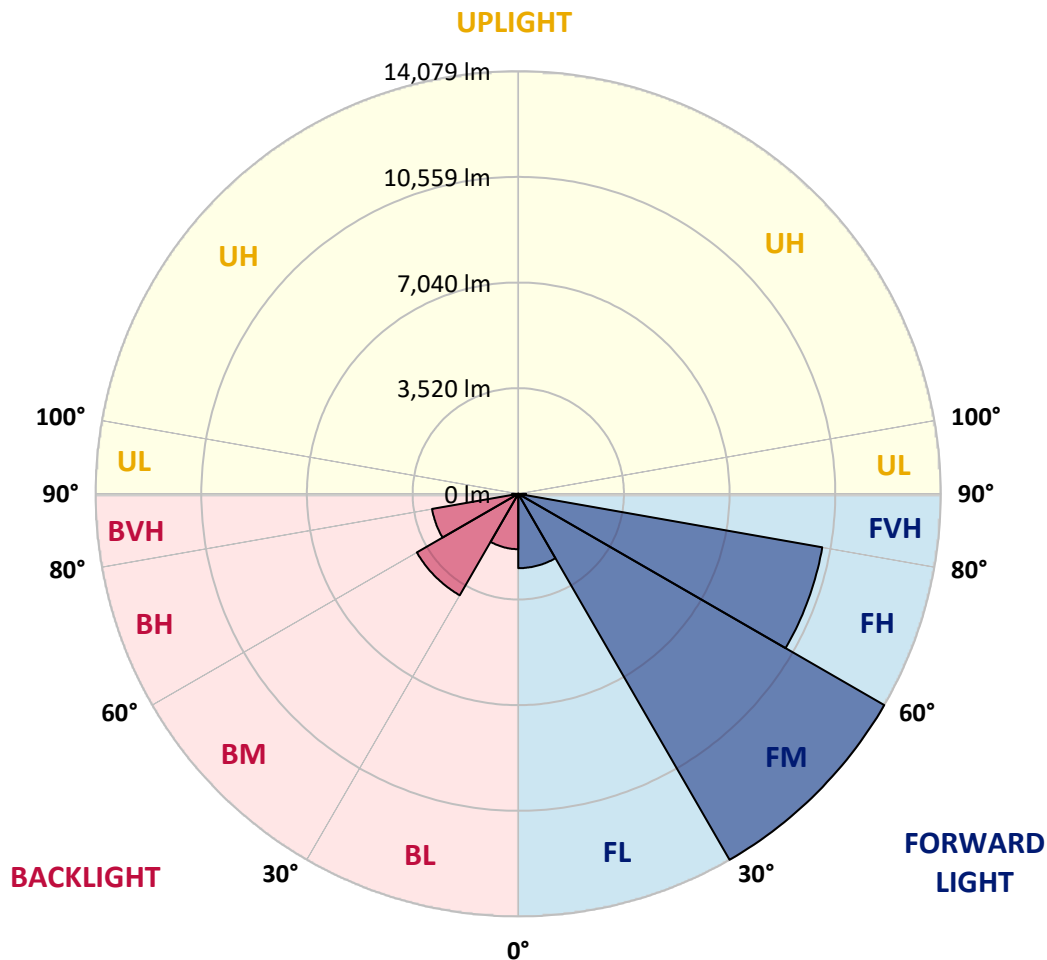
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.1	6.9			
FM (30°-60°)	14079.1	39.1			
FH (60°-80°)	10284.5	28.6			G4/12000
FVH (80°-90°)	263.4	0.7			G3/500
BL (0°-30°)	1844.9	5.1	B3/2500		
BM (30°-60°)	3901.6	10.8	B3/5000		
BH (60°-80°)	2914.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	207.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9
2.5°	5399.9	5430.5	5420.9	5411.4	5411.4	5398.0	5396.1	5377.0	5361.7	5336.9
5°	5468.6	5501.1	5497.3	5504.9	5529.7	5535.4	5541.2	5529.7	5499.2	5468.6
7.5°	5407.6	5443.8	5455.3	5501.1	5577.4	5646.2	5697.7	5718.7	5690.1	5646.2
10°	5201.4	5241.5	5281.6	5390.4	5525.9	5688.1	5825.6	5907.7	5901.9	5859.9
12.5°	4783.4	4825.4	4911.3	5123.2	5371.3	5657.6	5913.4	6085.2	6144.3	6113.8
15°	4449.4	4485.6	4550.5	4768.1	5090.7	5525.9	5945.8	6279.9	6430.7	6413.5
17.5°	4439.8	4455.1	4495.2	4598.2	4846.4	5319.8	5911.5	6470.7	6759.0	6757.1
20°	4607.8	4613.5	4636.4	4657.4	4798.7	5163.2	5823.7	6629.2	7127.4	7127.4
22.5°	4840.7	4836.8	4859.7	4840.7	4909.4	5149.9	5768.3	6768.5	7537.8	7568.3
25°	5190.0	5170.9	5165.1	5121.2	5134.6	5273.9	5829.4	6926.9	8024.5	8087.5
27.5°	5655.7	5625.2	5604.2	5503.0	5468.6	5529.7	6016.5	7117.8	8566.6	8675.4
30°	6262.7	6207.3	6176.8	6001.2	5877.1	5886.7	6299.0	7371.7	9133.5	9309.1
32.5°	7091.1	7005.2	6923.1	6634.9	6407.8	6333.3	6663.5	7722.9	9748.1	10028.7
35°	8018.8	7950.0	7862.2	7417.5	7068.2	6896.4	7156.0	8213.5	10467.7	10912.5
37.5°	8912.1	8852.9	8894.9	8295.5	7845.1	7595.0	7801.2	8872.0	11355.3	12011.9
40°	9835.9	9790.1	9795.8	9223.2	8698.3	8417.7	8583.8	9698.5	12372.7	13319.4
42.5°	10839.9	10805.6	10691.0	10183.3	9593.5	9332.0	9484.7	10652.9	13464.5	14808.3
45°	11964.2	11943.2	11836.3	11254.1	10578.4	10284.5	10490.6	11706.5	14562.0	16209.3
47.5°	12935.8	12952.9	12939.6	12449.0	11748.5	11317.1	11563.4	12806.0	15583.2	17526.4
50°	13403.4	13493.1	13624.8	13472.1	13036.9	12597.9	12645.6	13867.2	16556.7	18761.3
52.5°	13159.1	13329.0	13687.8	13932.1	14100.1	14008.5	13880.6	14920.9	17472.9	19876.1
55°	12248.6	12487.2	13082.7	13672.6	14529.6	15195.8	15363.7	16089.1	18366.2	20857.2
57.5°	10589.9	10977.4	11511.8	12704.8	14147.8	15770.3	17093.1	17709.6	19313.0	21905.1
60°	7745.8	8265.0	8929.2	10704.4	12811.7	15463.0	18564.7	20198.7	20658.7	23262.2
62.5°	4957.1	5277.8	5888.6	7560.7	9982.9	13888.2	19015.2	23310.0	22939.7	25487.9
65°	3393.8	3599.9	4159.2	5098.3	6453.6	10337.9	17808.9	25642.5	26562.5	29015.3
67.5°	2466.1	2622.7	3099.9	3922.5	4205.0	6117.6	13819.5	25535.6	30084.2	32649.6
70°	1798.1	1908.8	2309.6	3099.9	3235.4	3403.3	8371.9	21706.6	30007.9	33615.4
72.5°	1332.3	1408.7	1677.8	2405.1	2618.8	2298.2	4144.0	15776.0	25785.6	30404.9
75°	963.9	1021.2	1219.7	1840.1	2095.8	1750.3	2067.2	9219.4	17986.4	21387.8
77.5°	736.8	780.7	910.5	1347.6	1677.8	1313.2	1282.7	4241.3	8528.4	8570.4
80°	591.7	620.4	691.0	948.7	1286.5	983.0	836.0	1712.2	2695.2	2281.0
82.5°	435.2	482.9	584.1	666.2	920.0	677.6	509.6	864.7	1025.0	881.9
85°	248.1	280.6	353.1	477.2	587.9	414.2	292.0	383.7	477.2	391.3
87.5°	87.8	114.5	124.1	187.1	255.8	171.8	112.6	110.7	156.5	116.4
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°
5273.9	0°	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9
5331.2	2.5°	5312.1	5302.6	5264.4	5212.9	5159.4	5107.9	5090.7	5054.4	5029.6	5016.3
5455.3	5°	5419.0	5388.5	5298.8	5184.2	5064.0	4934.2	4842.6	4758.6	4697.5	4640.2
5625.2	7.5°	5571.7	5518.3	5363.7	5163.2	4949.5	4733.8	4573.4	4451.3	4369.2	4315.7
5823.7	10°	5749.2	5667.2	5430.5	5130.8	4800.6	4491.3	4302.4	4197.4	4145.9	4117.2
6050.8	12.5°	5953.5	5837.0	5499.2	5056.3	4573.4	4220.3	4090.5	4060.0	4061.9	4063.8
6337.1	15°	6205.4	6043.2	5554.5	4894.1	4277.6	4012.2	3989.3	4039.0	4090.5	4115.3
6661.6	17.5°	6489.8	6260.8	5564.1	4626.9	3987.4	3878.6	3951.2	4058.1	4136.3	4170.7
7024.3	20°	6795.2	6482.2	5495.4	4248.9	3748.8	3769.8	3899.6	4037.1	4123.0	4166.9
7438.5	22.5°	7144.5	6718.9	5331.2	3851.9	3554.1	3651.5	3804.2	3937.8	4027.5	4071.4
7925.2	25°	7543.5	6984.2	5073.5	3517.9	3386.2	3517.9	3670.6	3781.3	3853.8	3893.9
8469.2	27.5°	7986.3	7261.0	4729.9	3252.6	3239.2	3380.4	3506.4	3592.3	3630.5	3661.0
9047.6	30°	8431.1	7512.9	4313.8	3052.1	3111.3	3244.9	3334.6	3372.8	3384.3	3390.0
9692.8	32.5°	8912.1	7730.5	3876.7	2886.1	2989.1	3113.2	3166.7	3183.8	3130.4	3094.1
10475.4	35°	9494.2	7963.4	3449.2	2754.4	2868.9	2975.8	2993.0	2977.7	2914.7	2840.3
11456.5	37.5°	10213.9	8253.5	3107.5	2660.8	2756.3	2826.9	2805.9	2802.1	2807.8	2720.0
12636.1	40°	11095.7	8631.5	2857.4	2588.3	2664.6	2679.9	2620.7	2653.2	2681.8	2548.2
13930.2	42.5°	12074.9	9087.7	2699.0	2538.7	2588.3	2552.0	2460.4	2496.7	2492.9	2317.3
15230.1	45°	13073.2	9584.0	2643.7	2502.4	2517.7	2445.1	2344.0	2353.5	2273.4	2114.9
16476.5	47.5°	14065.8	10116.5	2678.0	2471.9	2429.9	2347.8	2269.5	2227.5	2109.2	1990.9
17671.4	50°	15039.2	10675.8	2804.0	2410.8	2309.6	2261.9	2204.6	2130.2	2004.2	1903.0
18801.4	52.5°	15942.1	11238.9	2945.2	2309.6	2158.8	2187.5	2151.2	2065.3	1941.2	1838.2
19870.3	55°	16797.2	11802.0	3000.6	2170.3	2017.6	2122.6	2101.6	1943.1	1794.2	1710.3
20988.9	57.5°	17728.7	12479.6	2939.5	1992.8	1903.0	2048.1	1967.9	1792.3	1706.4	1643.5
22445.3	60°	19019.0	13542.8	2807.8	1773.3	1794.2	1937.4	1800.0	1727.4	1633.9	1563.3
24628.9	62.5°	21162.6	15526.0	2595.9	1555.7	1666.4	1773.3	1719.8	1647.3	1551.8	1483.1
28362.5	65°	24331.2	18282.2	2197.0	1385.8	1523.2	1612.9	1633.9	1561.4	1462.1	1389.6
31634.1	67.5°	27003.4	20011.6	1662.5	1244.5	1376.2	1483.1	1542.3	1471.7	1366.7	1296.1
32399.5	70°	26856.5	18755.6	1269.3	1105.2	1246.4	1355.2	1431.6	1376.2	1263.6	1196.8
29429.5	72.5°	23854.0	15690.1	1026.9	963.9	1114.7	1221.6	1313.2	1271.2	1156.7	1091.8
21559.6	75°	17524.5	11137.7	820.8	820.8	950.6	1082.3	1183.4	1156.7	1051.7	1005.9
9051.4	77.5°	7387.0	4672.7	643.3	681.4	790.2	929.6	1055.6	1065.1	973.5	1030.7
2393.6	80°	1964.1	1288.4	490.6	536.4	620.4	767.3	918.1	914.3	815.0	761.6
889.5	82.5°	748.2	507.7	349.3	377.9	448.6	587.9	727.2	750.1	650.9	563.1
349.3	85°	288.2	217.6	215.7	227.1	261.5	389.4	549.7	568.8	490.6	416.1
97.3	87.5°	74.4	64.9	80.2	76.4	120.3	208.1	314.9	326.4	299.7	173.7
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°
5273.9
5031.5
4663.1
4327.2
4124.9
4067.6
4113.4
4178.3
4178.3
4082.9
3905.4
3672.5
3403.3
3105.6
2844.1
2725.7
2552.0
2315.3
2120.6
1990.9
1895.4
1840.1
1702.6
1637.7
1559.5
1483.1
1393.4
1298.0
1202.5
1091.8
992.6
935.3
708.2
563.1
429.5
248.1
0.0

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