

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: P853083

Luminaire Tested: **GLAN-SB8C-827-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853083
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-SB8C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47722 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

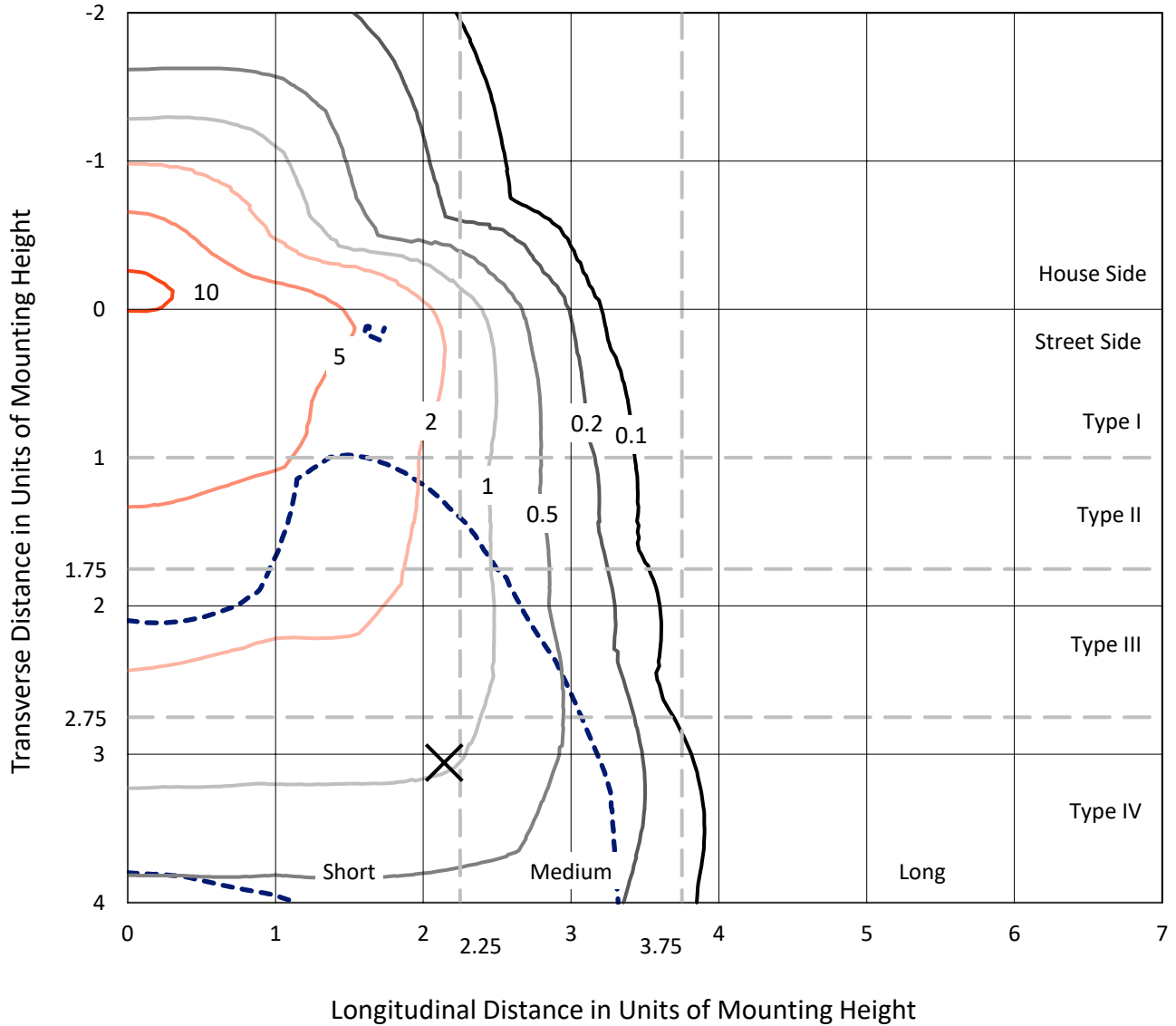
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

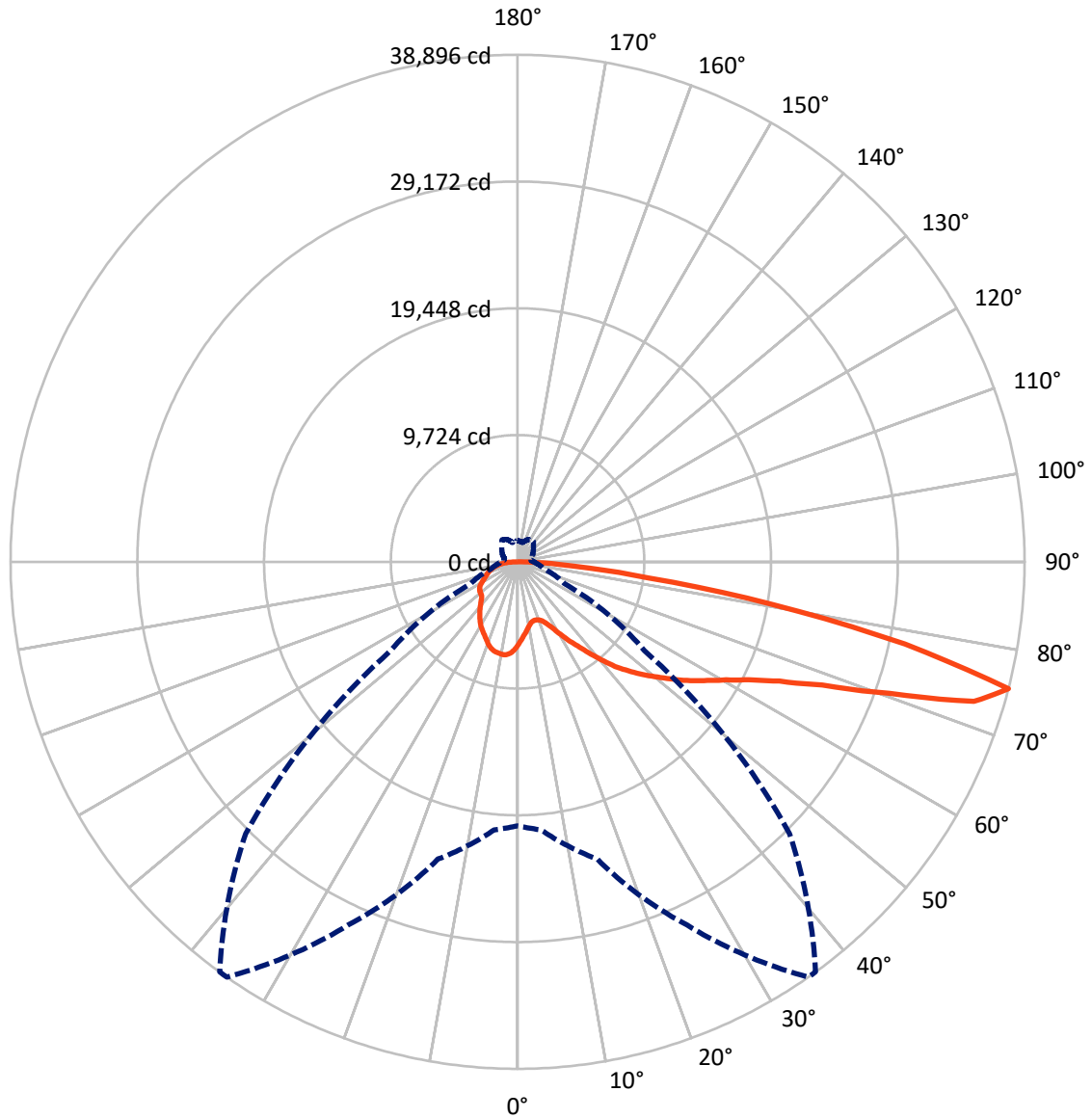
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	11356.6	0.0	11356.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36365.4	0.0	36365.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	47722.0	0.0	47722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.1	1.3
10°-20°	1736.7	3.6
20°-30°	2916.4	6.1
30°-40°	4532.5	9.5
40°-50°	6727.4	14.1
50°-60°	9287.6	19.5
60°-70°	11267.9	23.6
70°-80°	9312.1	19.5
80°-90°	1339.4	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°	47722.0	100.0
0°-180°	47722.0	100.0

Coefficient of Utilization

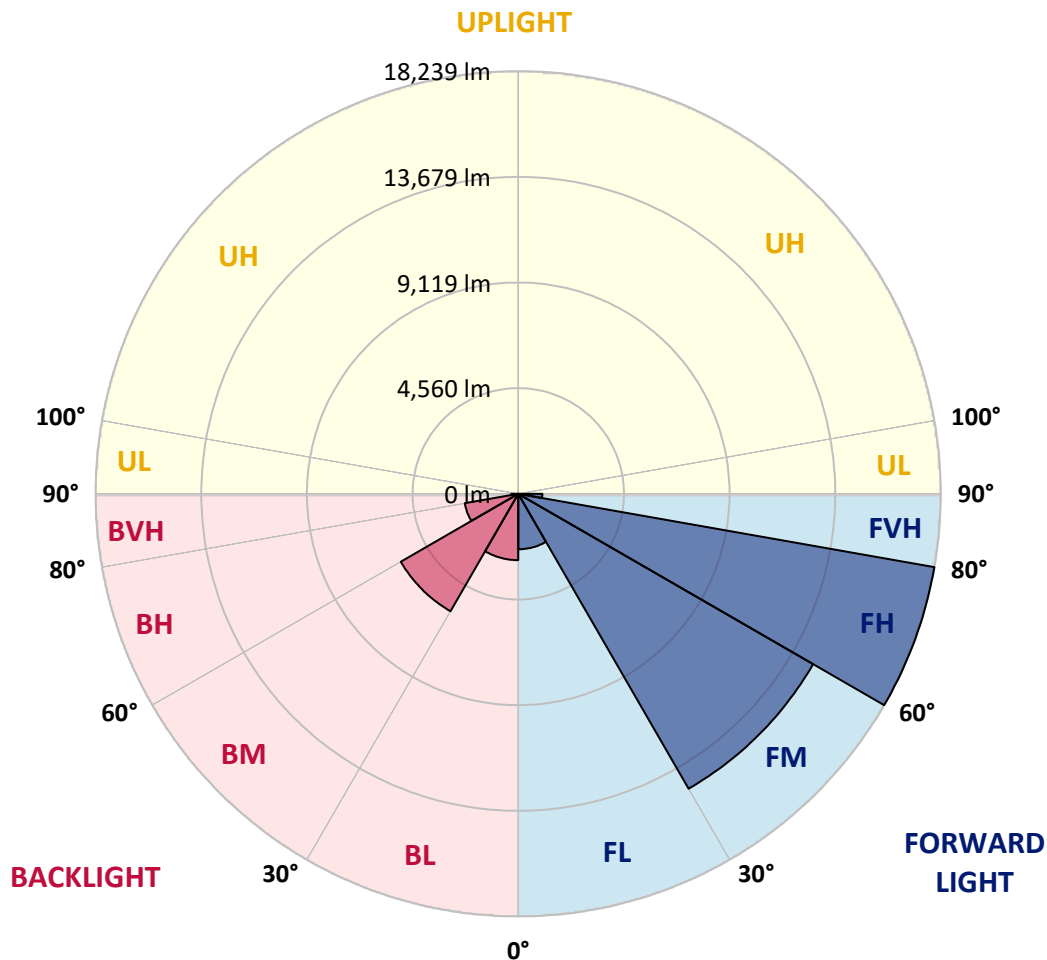


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2393.2	5.0			
FM (30°-60°)	14695.8	30.8			
FH (60°-80°)	18238.6	38.2			G5
FVH (80°-90°)	1037.8	2.2			G5
BL (0°-30°)	2862.0	6.0	B4/5000		
BM (30°-60°)	5851.6	12.3	B4/8500		
BH (60°-80°)	2341.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	301.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3
2.5°	5864.0	5900.1	5915.5	5907.8	5946.5	5941.3	5995.5	6062.6	6155.5	6245.8
5°	5412.5	5451.2	5484.7	5515.7	5590.5	5613.7	5698.8	5827.8	5998.1	6171.0
7.5°	4992.0	5025.5	5077.1	5133.9	5260.3	5283.5	5425.4	5626.6	5864.0	6116.8
10°	4648.9	4682.4	4736.6	4801.1	4958.4	4986.8	5167.4	5435.7	5745.3	6065.2
12.5°	4501.8	4512.1	4543.1	4607.6	4744.3	4762.4	4961.0	5268.0	5629.2	6026.5
15°	4494.1	4514.7	4517.3	4550.8	4664.3	4672.1	4855.2	5159.7	5557.0	6018.7
17.5°	4571.5	4586.9	4563.7	4584.4	4679.8	4692.7	4837.2	5108.1	5533.7	6052.3
20°	4777.8	4790.7	4721.1	4692.7	4762.4	4772.7	4914.6	5141.6	5557.0	6121.9
22.5°	5216.4	5224.2	5053.9	4937.8	4943.0	4948.1	5071.9	5278.3	5647.2	6248.3
25°	5900.1	5894.9	5624.0	5399.6	5270.6	5242.2	5324.8	5500.2	5799.5	6416.0
27.5°	6699.8	6661.1	6390.2	6054.9	5773.7	5732.4	5714.3	5789.1	6016.2	6637.9
30°	7602.8	7566.6	7275.1	6836.5	6447.0	6379.9	6209.6	6171.0	6338.6	6939.7
32.5°	8593.4	8570.2	8221.9	7690.5	7169.3	7092.0	6805.6	6702.4	6834.0	7396.4
35°	9424.1	9403.5	9114.5	8567.6	7930.4	7834.9	7543.4	7427.3	7494.4	7982.0
37.5°	10174.8	10164.5	9916.9	9486.0	8828.2	8712.1	8384.4	8345.7	8332.8	8753.4
40°	10871.4	10845.6	10587.6	10360.6	9873.0	9767.2	9478.3	9444.8	9346.7	9702.7
42.5°	11642.8	11575.7	11201.6	11095.8	10964.3	10876.6	10703.7	10708.9	10492.2	10773.4
45°	12272.2	12233.6	11849.2	11787.2	11929.1	11893.0	12042.6	12081.3	11660.8	11895.6
47.5°	12948.2	12912.0	12587.0	12543.1	12927.5	12937.8	13466.7	13479.6	12801.1	13061.7
50°	13781.4	13729.9	13407.4	13461.5	13892.4	13931.1	14898.5	14810.8	13851.1	14245.8
52.5°	14331.0	14361.9	14292.3	14380.0	14968.2	15004.3	16307.1	16082.7	14890.8	15414.5
55°	14736.0	14797.9	15014.6	15215.8	16103.3	16139.4	17635.7	17292.6	15752.4	16498.0
57.5°	15257.1	15169.4	15574.4	15966.6	17181.7	17277.1	18928.2	18458.7	16516.1	17431.9
60°	16005.3	15943.3	16258.1	16838.5	18389.0	18541.2	20295.5	19508.7	17075.9	18172.3
62.5°	17522.2	17367.4	17416.4	17929.8	19911.1	20112.3	21838.3	20424.5	17354.5	18461.3
65°	19789.9	19524.1	19276.5	19632.5	22055.0	22253.6	23579.6	21144.3	17251.3	17901.4
67.5°	22645.7	22382.6	22078.2	22413.6	25212.7	25370.0	25728.6	21549.3	16438.7	15744.7
70°	25001.1	24903.1	25266.8	26647.1	30256.2	30261.4	28483.9	21213.9	14212.3	11162.9
72.5°	24689.0	24629.6	26546.4	30813.5	36612.9	36476.2	31092.1	18675.4	9573.7	5035.8
75°	20254.2	20638.6	23608.0	30738.7	38896.1	38878.0	29495.2	11872.4	3960.0	2087.1
77.5°	10861.1	11469.9	15326.8	22694.8	30364.6	30821.2	20736.7	4153.5	1700.1	1336.4
80°	3542.1	4073.6	6109.0	11555.1	19730.5	19645.4	8887.5	1630.5	1163.5	946.8
82.5°	1504.0	1566.0	2729.5	5456.3	10125.8	9968.5	2830.1	936.5	817.8	647.5
85°	588.2	657.9	1204.8	2523.1	4385.7	4290.3	1021.6	464.4	523.7	423.1
87.5°	193.5	234.8	430.8	864.2	1364.7	1315.7	250.2	159.9	227.0	193.5
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°
6359.3	0°	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3	6359.3
6377.3	2.5°	6413.5	6454.7	6503.7	6576.0	6637.9	6689.5	6743.7	6777.2	6790.1	6828.8
6387.7	5°	6459.9	6550.2	6671.4	6790.1	6906.2	6975.9	7037.8	7068.7	7097.1	7117.7
6416.0	7.5°	6537.3	6653.4	6844.3	6999.1	7097.1	7153.9	7195.1	7184.8	7195.1	7200.3
6447.0	10°	6604.4	6766.9	6993.9	7141.0	7215.8	7218.4	7208.0	7171.9	7153.9	7156.4
6493.4	12.5°	6684.3	6864.9	7110.0	7233.8	7254.5	7197.7	7153.9	7092.0	7068.7	7058.4
6563.1	15°	6792.7	6999.1	7236.4	7282.9	7231.3	7159.0	7084.2	6983.6	6932.0	6890.7
6681.8	17.5°	6924.3	7151.3	7334.5	7300.9	7190.0	7071.3	6950.1	6797.9	6692.1	6648.2
6844.3	20°	7107.4	7311.2	7409.3	7262.2	7094.5	6913.9	6707.6	6521.8	6423.8	6379.9
7050.7	22.5°	7329.3	7525.4	7481.5	7195.1	6957.8	6668.9	6410.9	6274.1	6225.1	6194.2
7316.4	25°	7595.0	7762.7	7533.1	7097.1	6733.4	6343.8	6145.2	6101.3	6078.1	6054.9
7641.5	27.5°	7940.7	8031.0	7571.8	6952.6	6382.5	5998.1	5925.9	5933.6	5925.9	5887.2
8092.9	30°	8397.3	8379.3	7607.9	6717.9	5980.0	5685.9	5691.1	5724.6	5729.8	5704.0
8722.4	32.5°	8998.4	8815.3	7626.0	6413.5	5595.6	5412.5	5417.6	5453.8	5479.6	5435.7
9545.4	35°	9726.0	9323.5	7597.6	6031.6	5299.0	5151.9	5113.2	5123.5	5131.3	5090.0
10543.8	37.5°	10574.7	9893.6	7471.2	5608.5	5053.9	4896.5	4814.0	4744.3	4703.0	4664.3
11673.7	40°	11506.0	10515.4	7239.0	5195.8	4780.4	4625.6	4501.8	4370.2	4230.9	4179.3
12870.8	42.5°	12481.2	11155.2	6957.8	4801.1	4465.7	4339.3	4207.7	4016.8	3807.8	3702.1
14114.2	45°	13492.5	11810.5	6681.8	4411.5	4143.2	4089.0	3936.8	3707.2	3480.2	3346.0
15360.3	47.5°	14483.2	12429.6	6276.7	4019.4	3841.4	3900.7	3782.0	3570.5	3317.7	3106.1
16596.0	50°	15430.0	13010.1	5613.7	3622.1	3596.3	3843.9	3730.4	3426.0	3137.1	2866.2
17808.6	52.5°	16369.0	13479.6	4764.9	3260.9	3464.7	3828.5	3663.4	3328.0	2974.5	2690.8
18948.8	55°	17166.2	13722.1	3947.1	2951.3	3273.8	3696.9	3583.4	3211.9	2744.9	2443.1
19730.5	57.5°	17620.2	13526.0	3266.1	2646.9	3010.7	3480.2	3446.7	2964.2	2471.5	2239.3
19882.7	60°	17424.2	12731.5	2708.8	2381.2	2760.4	3245.4	3209.3	2719.1	2262.5	2043.2
19067.5	62.5°	16343.2	11217.1	2267.7	2149.0	2533.4	3005.5	2972.0	2530.8	2102.6	1891.0
16903.0	65°	14165.8	9124.9	1924.6	1955.5	2303.8	2716.6	2765.6	2373.4	1976.1	1769.8
13077.2	67.5°	10804.3	6609.5	1656.3	1787.8	2079.3	2432.8	2574.7	2259.9	1870.4	1674.3
7566.6	70°	6158.1	3753.7	1429.2	1625.3	1880.7	2169.6	2427.6	2169.6	1756.9	1594.3
2835.2	72.5°	2334.7	1723.3	1235.7	1462.8	1689.8	1947.8	2265.1	2027.7	1625.3	1504.0
1465.3	75°	1246.1	1050.0	1039.7	1271.9	1470.5	1731.1	2061.3	1888.4	1527.3	1589.2
1013.9	77.5°	848.8	743.0	869.4	1088.7	1230.6	1491.1	1844.6	1676.9	1323.5	1318.3
701.7	80°	588.2	526.3	706.9	877.1	952.0	1253.8	1609.8	1439.5	1078.4	1006.1
433.4	82.5°	353.4	343.1	528.9	655.3	673.3	967.4	1333.8	1207.4	882.3	768.8
258.0	85°	193.5	203.8	338.0	384.4	392.1	675.9	1044.8	933.9	678.5	570.1
92.9	87.5°	54.2	69.7	123.8	152.2	188.3	350.9	621.7	554.7	340.5	237.3
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°
6359.3
6826.2
7122.9
7208.0
7161.6
7053.3
6903.6
6650.8
6374.8
6199.3
6054.9
5894.9
5716.9
5456.3
5118.4
4690.1
4202.5
3715.0
3335.7
3082.9
2843.0
2659.8
2417.3
2208.3
2012.3
1857.5
1736.2
1643.4
1573.7
1483.4
1640.8
1215.1
962.3
773.9
575.3
237.3
0.0

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