

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: P852717

Luminaire Tested: **GLAN-SB5D-850-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852717
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-SB5D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43624 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

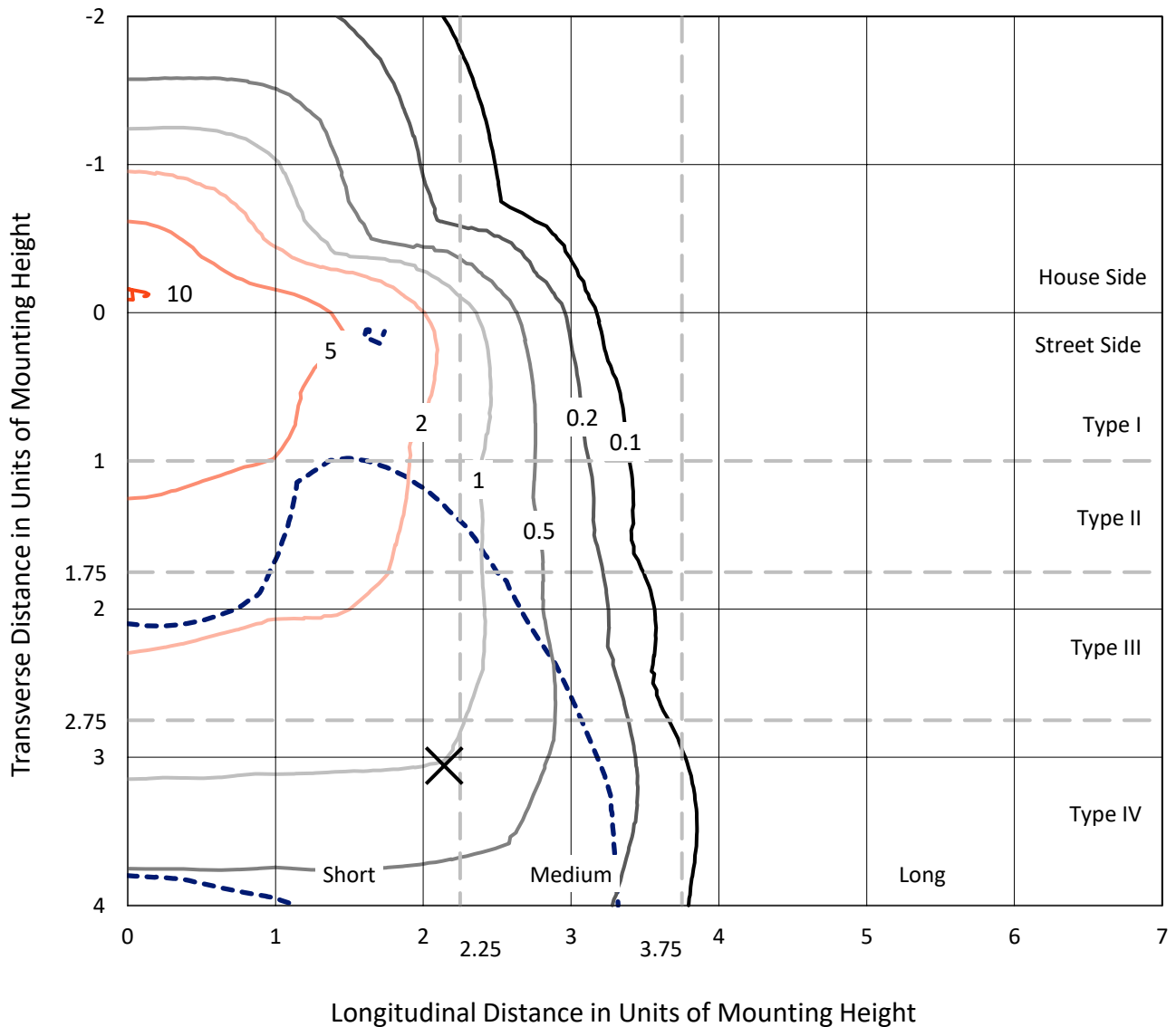
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

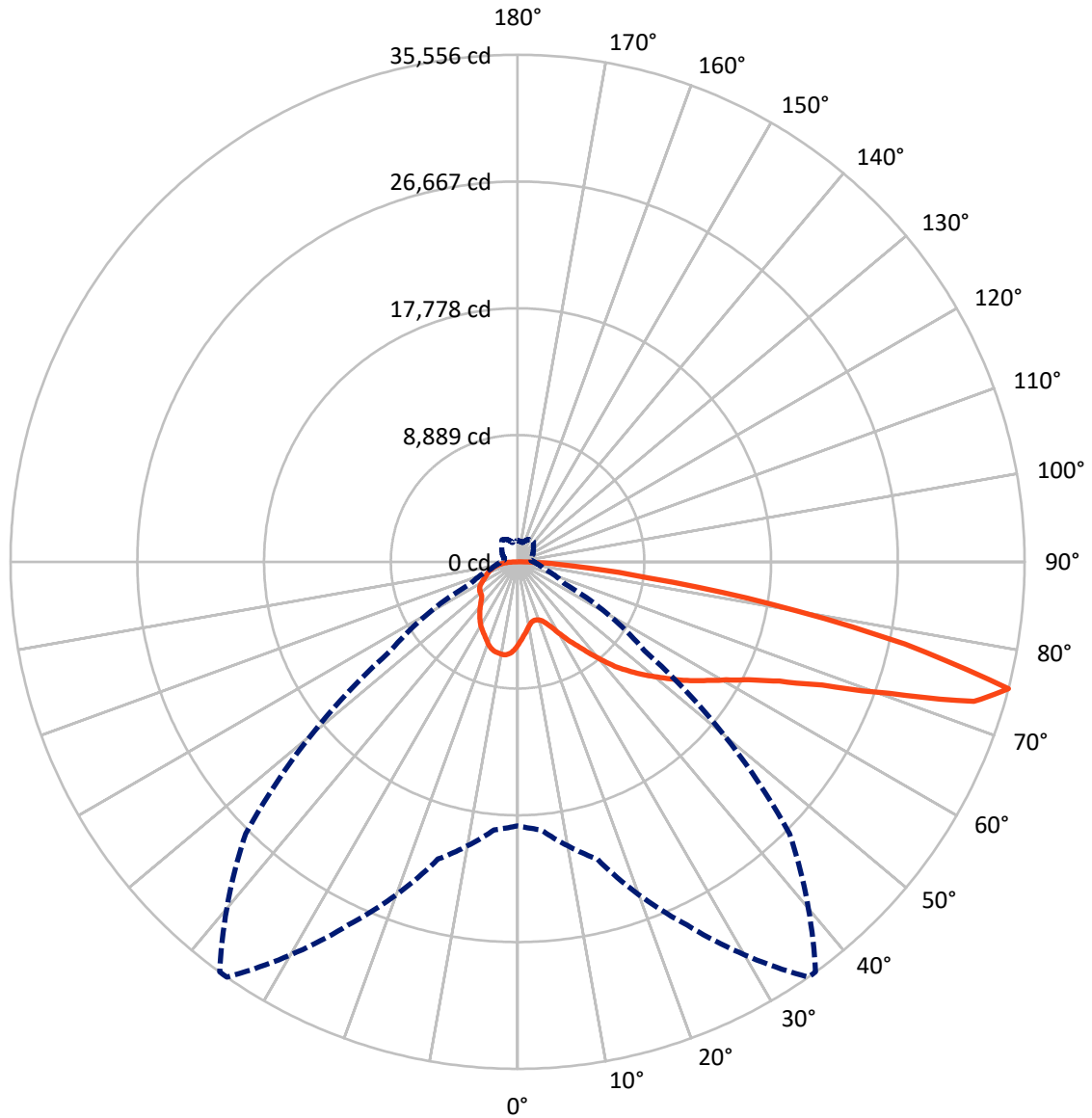
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	10381.4	0.0	10381.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33242.6	0.0	33242.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	43624.0	0.0	43624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.4	1.3
10°-20°	1587.6	3.6
20°-30°	2665.9	6.1
30°-40°	4143.3	9.5
40°-50°	6149.7	14.1
50°-60°	8490.0	19.5
60°-70°	10300.3	23.6
70°-80°	8512.4	19.5
80°-90°	1224.3	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°	43624.0	100.0
0°-180°	43624.0	100.0

Coefficient of Utilization

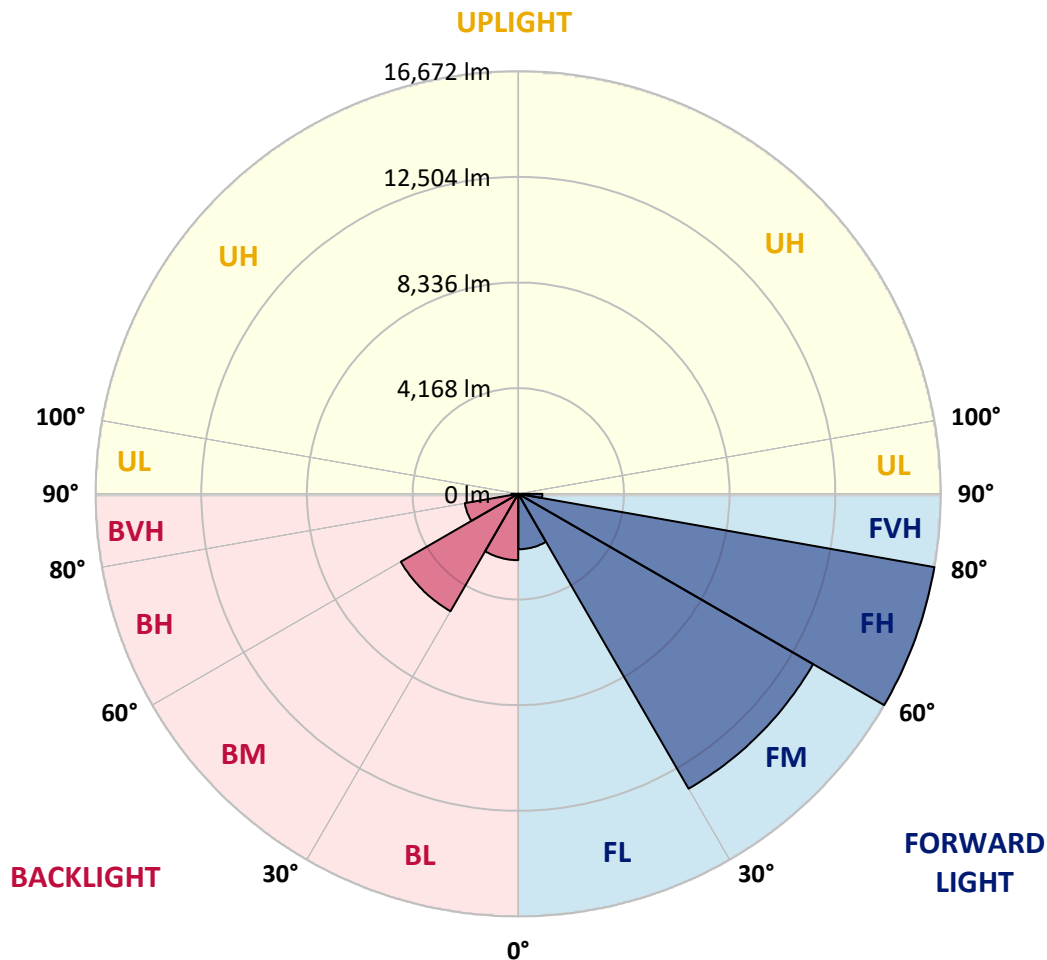


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.7	5.0			
FM (30°-60°)	13433.8	30.8			
FH (60°-80°)	16672.4	38.2			G5
FVH (80°-90°)	948.7	2.2			G5
BL (0°-30°)	2616.3	6.0	B4/5000		
BM (30°-60°)	5349.1	12.3	B4/8500		
BH (60°-80°)	2140.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	275.7	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°	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2
2.5°	5360.4	5393.4	5407.6	5400.5	5435.9	5431.1	5480.7	5542.0	5626.9	5709.4
5°	4947.7	4983.1	5013.7	5042.0	5110.4	5131.6	5209.5	5327.4	5483.0	5641.0
7.5°	4563.3	4594.0	4641.1	4693.0	4808.6	4829.8	4959.5	5143.4	5360.4	5591.5
10°	4249.6	4280.3	4329.8	4388.8	4532.6	4558.6	4723.7	4968.9	5251.9	5544.3
12.5°	4115.2	4124.7	4153.0	4211.9	4336.9	4353.4	4535.0	4815.6	5145.8	5509.0
15°	4108.1	4127.0	4129.4	4160.0	4263.8	4270.9	4438.3	4716.6	5079.8	5501.9
17.5°	4178.9	4193.0	4171.8	4190.7	4277.9	4289.7	4421.8	4669.4	5058.5	5532.6
20°	4367.6	4379.4	4315.7	4289.7	4353.4	4362.8	4492.5	4700.1	5079.8	5596.2
22.5°	4768.5	4775.5	4619.9	4513.8	4518.5	4523.2	4636.4	4825.1	5162.3	5711.8
25°	5393.4	5388.7	5141.1	4935.9	4818.0	4792.1	4867.5	5027.9	5301.4	5865.1
27.5°	6124.5	6089.1	5841.5	5534.9	5277.9	5240.1	5223.6	5292.0	5499.5	6067.9
30°	6949.9	6916.9	6650.4	6249.5	5893.4	5832.1	5676.4	5641.0	5794.3	6343.8
32.5°	7855.5	7834.3	7515.9	7030.1	6553.7	6482.9	6221.2	6126.8	6247.1	6761.2
35°	8614.8	8596.0	8331.9	7831.9	7249.4	7162.1	6895.6	6789.5	6850.8	7296.6
37.5°	9301.1	9291.7	9065.3	8671.4	8070.1	7964.0	7664.5	7629.1	7617.3	8001.7
40°	9937.8	9914.3	9678.4	9470.9	9025.2	8928.5	8664.4	8633.7	8544.1	8869.5
42.5°	10643.0	10581.7	10239.7	10143.0	10022.7	9942.6	9784.6	9789.3	9591.2	9848.2
45°	11218.4	11183.0	10831.6	10775.0	10904.7	10871.7	11008.5	11043.9	10659.5	10874.1
47.5°	11836.3	11803.3	11506.1	11466.0	11817.4	11826.8	12310.3	12322.1	11701.9	11940.0
50°	12598.0	12550.8	12256.1	12305.6	12699.4	12734.8	13619.1	13539.0	12661.7	13022.5
52.5°	13100.3	13128.6	13064.9	13145.1	13682.8	13715.8	14906.8	14701.6	13612.1	14090.8
55°	13470.6	13527.2	13725.3	13909.2	14720.5	14753.5	16121.3	15807.6	14399.7	15081.3
57.5°	13946.9	13866.8	14237.0	14595.5	15706.2	15793.5	17302.8	16873.6	15097.8	15935.0
60°	14630.9	14574.3	14862.0	15392.6	16809.9	16949.1	18552.7	17833.4	15609.5	16611.8
62.5°	16017.5	15876.0	15920.8	16390.1	18201.3	18385.3	19963.0	18670.6	15864.2	16875.9
65°	18090.5	17847.6	17621.2	17946.6	20161.0	20342.6	21554.8	19328.6	15769.9	16364.2
67.5°	20701.1	20460.6	20182.3	20488.9	23047.6	23191.5	23519.3	19698.8	15027.0	14392.7
70°	22854.2	22764.6	23097.1	24358.8	27658.1	27662.8	26037.9	19392.2	12991.8	10204.3
72.5°	22568.9	22514.6	24266.8	28167.5	33468.9	33343.9	28422.2	17071.7	8751.6	4603.4
75°	18515.0	18866.3	21580.7	28099.1	35556.0	35539.5	26962.4	10852.9	3620.0	1907.9
77.5°	9928.4	10485.0	14010.6	20745.9	27757.1	28174.5	18956.0	3796.9	1554.1	1221.6
80°	3237.9	3723.7	5584.4	10562.8	18036.2	17958.4	8124.3	1490.4	1063.6	865.5
82.5°	1374.9	1431.5	2495.1	4987.8	9256.3	9112.4	2587.0	856.1	747.6	591.9
85°	537.7	601.4	1101.3	2306.4	4009.1	3921.8	933.9	424.5	478.7	386.8
87.5°	176.9	214.6	393.8	790.0	1247.5	1202.7	228.8	146.2	207.5	176.9
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°
5813.2	0°	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2	5813.2
5829.7	2.5°	5862.7	5900.4	5945.3	6011.3	6067.9	6115.1	6164.6	6195.2	6207.0	6242.4
5839.1	5°	5905.2	5987.7	6098.5	6207.0	6313.2	6376.8	6433.4	6461.7	6487.7	6506.5
5865.1	7.5°	5975.9	6082.0	6256.6	6398.0	6487.7	6539.5	6577.3	6567.8	6577.3	6582.0
5893.4	10°	6037.2	6185.8	6393.3	6527.8	6596.1	6598.5	6589.1	6556.1	6539.5	6541.9
5935.8	12.5°	6110.3	6275.4	6499.5	6612.7	6631.5	6579.6	6539.5	6482.9	6461.7	6452.3
5999.5	15°	6209.4	6398.0	6615.0	6657.5	6610.3	6544.3	6475.9	6383.9	6336.7	6299.0
6108.0	17.5°	6329.7	6537.2	6704.6	6674.0	6572.6	6464.1	6353.2	6214.1	6117.4	6077.3
6256.6	20°	6497.1	6683.4	6773.0	6638.6	6485.3	6320.2	6131.6	5961.8	5872.2	5832.1
6445.2	22.5°	6699.9	6879.1	6839.1	6577.3	6360.3	6096.2	5860.4	5735.4	5690.6	5662.3
6688.1	25°	6942.8	7096.1	6886.2	6487.7	6155.1	5799.0	5617.5	5577.4	5556.1	5534.9
6985.3	27.5°	7258.8	7341.4	6921.6	6355.6	5834.4	5483.0	5417.0	5424.1	5417.0	5381.6
7398.0	30°	7676.2	7659.7	6954.6	6141.0	5466.5	5197.7	5202.4	5233.1	5237.8	5214.2
7973.4	32.5°	8225.7	8058.3	6971.1	5862.7	5115.1	4947.7	4952.4	4985.4	5009.0	4968.9
8725.7	35°	8890.8	8522.9	6945.2	5513.7	4843.9	4709.5	4674.1	4683.6	4690.6	4652.9
9638.3	37.5°	9666.6	9044.1	6829.6	5126.9	4619.9	4476.0	4400.6	4336.9	4299.2	4263.8
10671.3	40°	10518.0	9612.4	6617.4	4749.6	4369.9	4228.4	4115.2	3994.9	3867.6	3820.4
11765.5	42.5°	11409.4	10197.3	6360.3	4388.8	4082.2	3966.6	3846.4	3671.9	3480.8	3384.2
12902.2	45°	12333.9	10796.3	6108.0	4032.7	3787.4	3737.9	3598.8	3388.9	3181.3	3058.7
14041.3	47.5°	13239.5	11362.3	5737.7	3674.2	3511.5	3565.7	3457.3	3263.9	3032.8	2839.4
15170.9	50°	14105.0	11892.9	5131.6	3311.0	3287.5	3513.9	3410.1	3131.8	2867.7	2620.1
16279.3	52.5°	14963.4	12322.1	4355.8	2980.9	3167.2	3499.7	3348.8	3042.2	2719.1	2459.7
17321.7	55°	15692.1	12543.8	3608.2	2697.9	2992.7	3379.4	3275.7	2936.1	2509.2	2233.3
18036.2	57.5°	16107.1	12364.5	2985.6	2419.6	2752.1	3181.3	3150.7	2709.7	2259.2	2047.0
18175.4	60°	15927.9	11638.2	2476.2	2176.7	2523.4	2966.7	2933.7	2485.6	2068.2	1867.8
17430.1	62.5°	14939.8	10253.9	2072.9	1964.5	2315.8	2747.4	2716.8	2313.5	1922.0	1728.6
15451.5	65°	12949.4	8341.3	1759.3	1787.6	2106.0	2483.3	2528.1	2169.6	1806.5	1617.8
11954.2	67.5°	9876.5	6041.9	1514.0	1634.3	1900.8	2223.9	2353.6	2065.9	1709.8	1530.5
6916.9	70°	5629.2	3431.3	1306.5	1485.7	1719.2	1983.3	2219.2	1983.3	1606.0	1457.4
2591.8	72.5°	2134.3	1575.3	1129.6	1337.2	1544.7	1780.5	2070.6	1853.6	1485.7	1374.9
1339.5	75°	1139.1	959.8	950.4	1162.6	1344.2	1582.4	1884.3	1726.3	1396.1	1452.7
926.8	77.5°	775.9	679.2	794.7	995.2	1124.9	1363.1	1686.2	1532.9	1209.8	1205.1
641.5	80°	537.7	481.1	646.2	801.8	870.2	1146.1	1471.6	1315.9	985.8	919.7
396.2	82.5°	323.1	313.7	483.5	599.0	615.5	884.4	1219.2	1103.7	806.5	702.8
235.8	85°	176.9	186.3	308.9	351.4	358.5	617.9	955.1	853.7	620.2	521.2
84.9	87.5°	49.5	63.7	113.2	139.1	172.2	320.7	568.3	507.0	311.3	217.0
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°
5813.2
6240.0
6511.2
6589.1
6546.6
6447.6
6310.8
6079.7
5827.3
5667.0
5534.9
5388.7
5226.0
4987.8
4678.9
4287.4
3841.7
3395.9
3049.3
2818.2
2598.8
2431.4
2209.7
2018.7
1839.5
1698.0
1587.1
1502.2
1438.6
1356.0
1499.9
1110.8
879.6
707.5
525.9
217.0
0.0

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