

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: P851078

Luminaire Tested: **GLAN-SB8D-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851078
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-SB8D-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70701 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

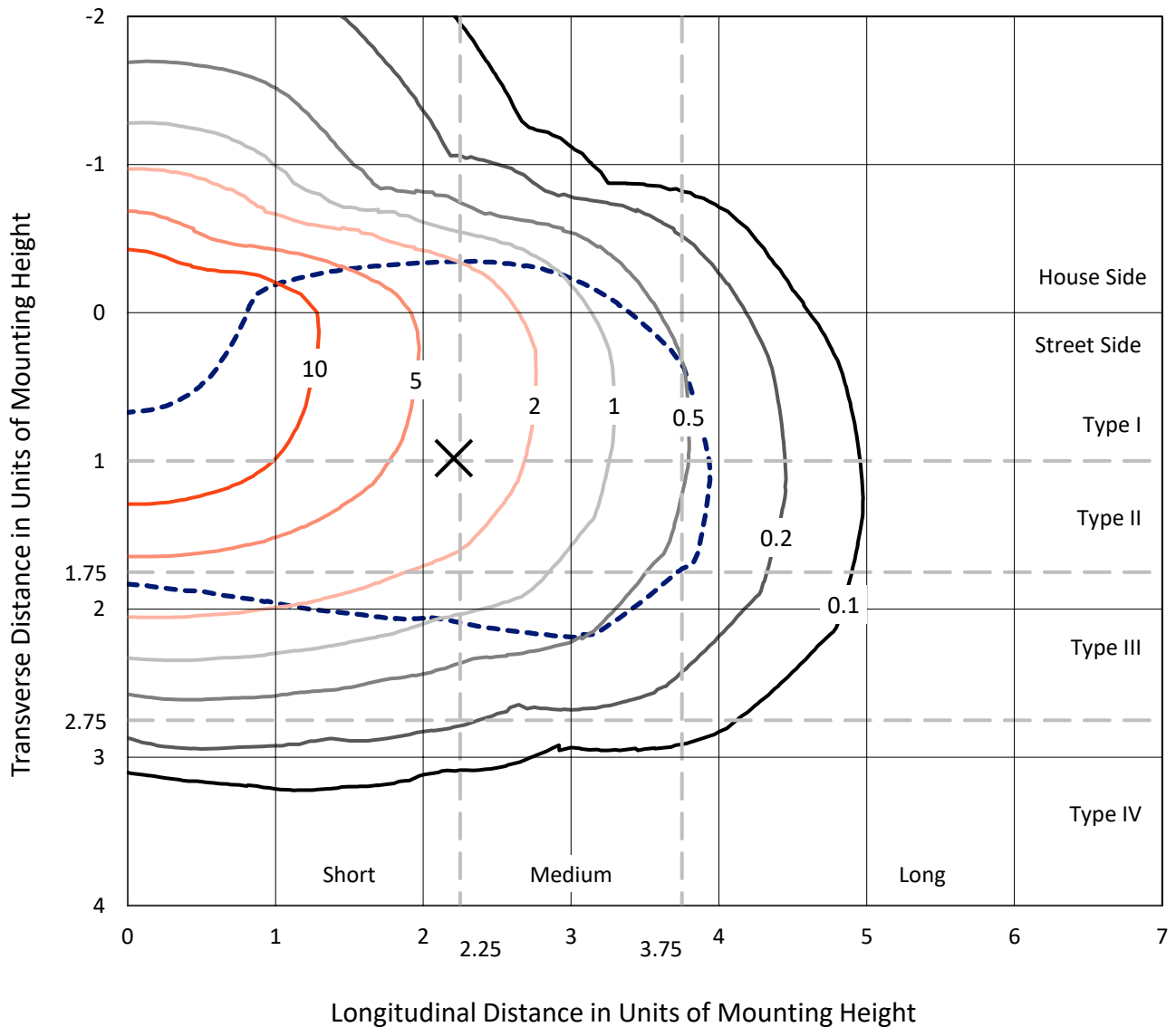
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

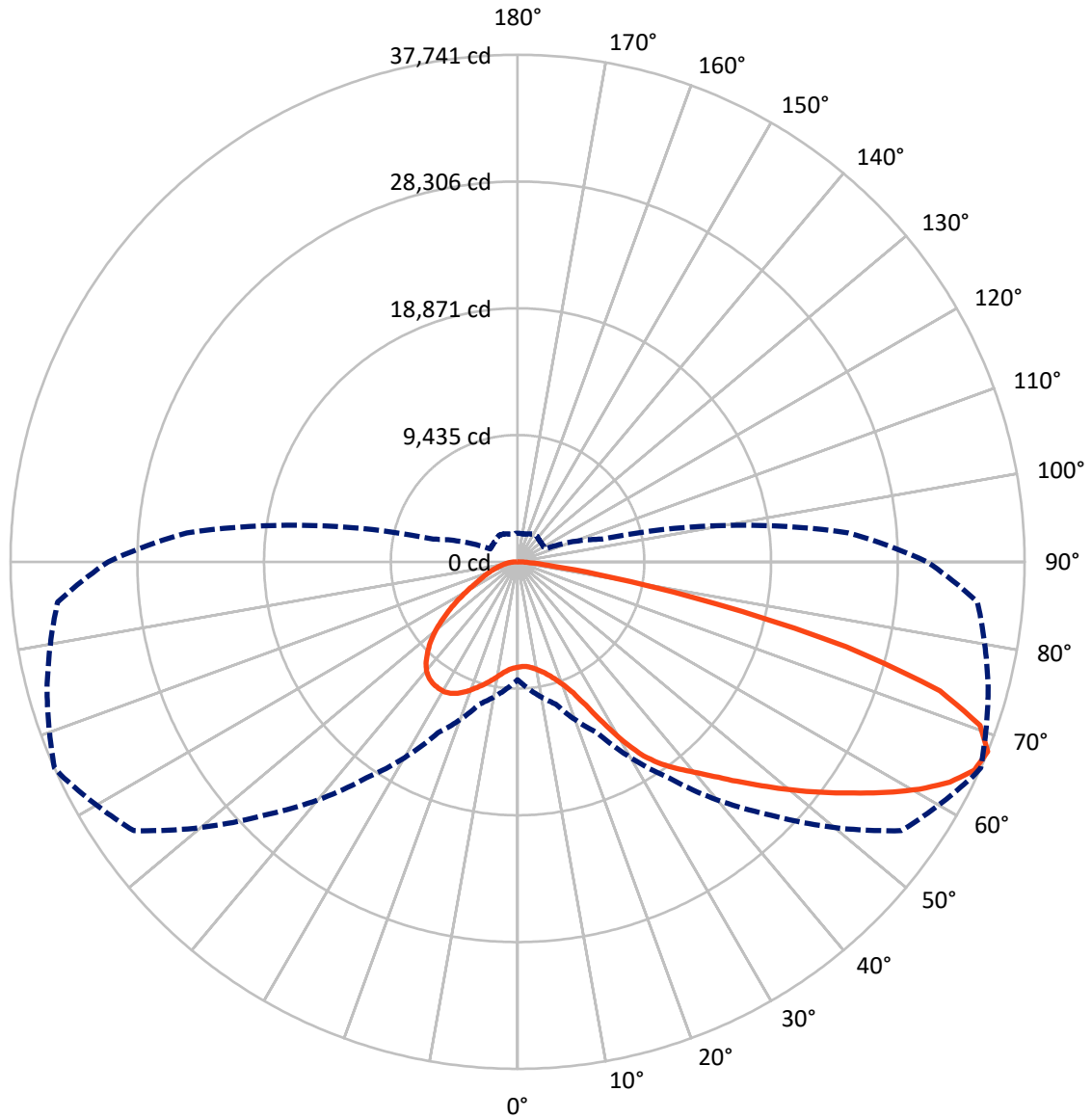
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	17579.6	0.0	17579.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	53121.4	0.0	53121.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	70701.0	0.0	70701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.5	1.1
10°-20°	2568.7	3.6
20°-30°	4951.0	7.0
30°-40°	8680.9	12.3
40°-50°	12905.6	18.3
50°-60°	16359.1	23.1
60°-70°	16006.9	22.6
70°-80°	7635.5	10.8
80°-90°	816.0	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°	70701.0	100.0
0°-180°	70701.0	100.0

Coefficient of Utilization

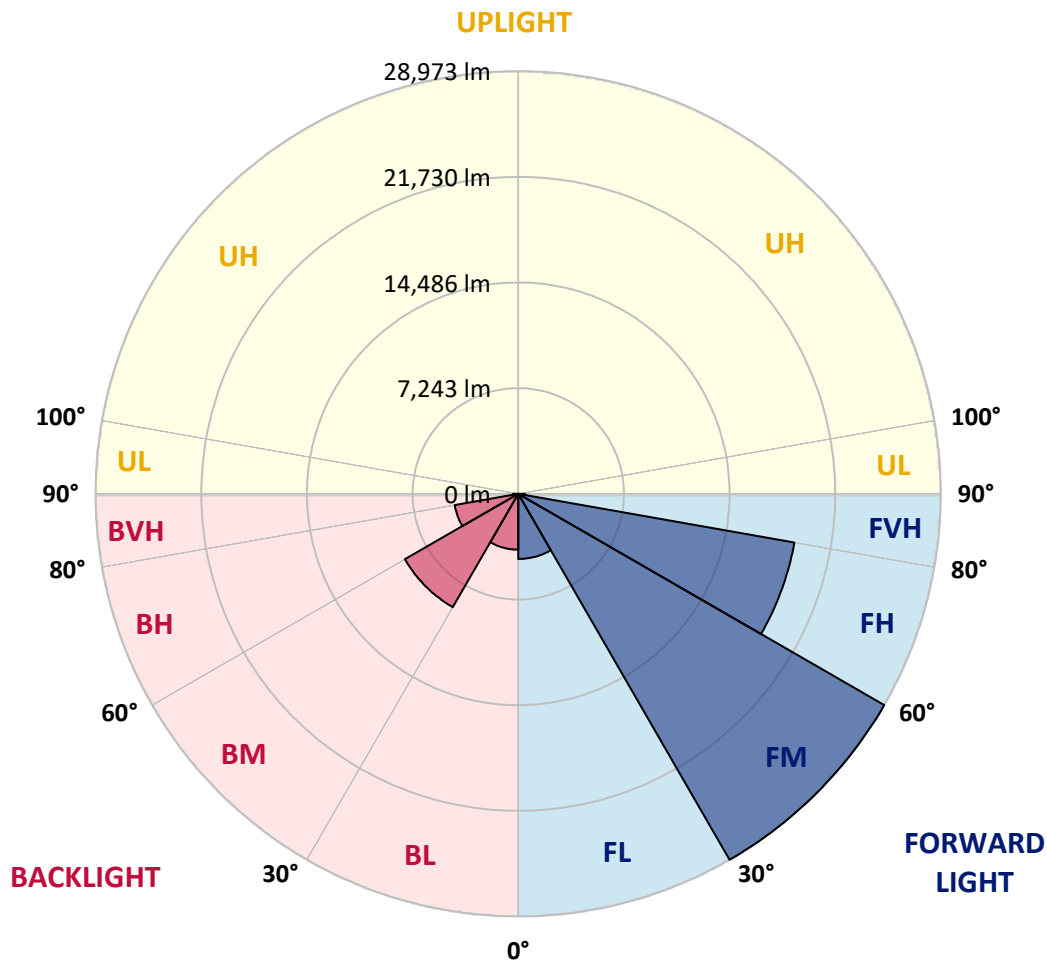


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4467.6	6.3			
FM (30°-60°)	28972.7	41.0			
FH (60°-80°)	19218.5	27.2			G5
FVH (80°-90°)	462.7	0.7			G3/500
BL (0°-30°)	3829.5	5.4	B4/5000		
BM (30°-60°)	8972.8	12.7	B5		
BH (60°-80°)	4423.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	353.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7
2.5°	7760.0	7804.5	7793.4	7774.8	7771.1	7778.5	7789.7	7800.8	7797.1	7815.7
5°	7737.7	7782.2	7778.5	7778.5	7793.4	7823.1	7841.7	7860.2	7841.7	7864.0
7.5°	7752.5	7786.0	7800.8	7815.7	7852.8	7908.5	7953.1	7994.0	7971.7	7997.7
10°	7942.0	7968.0	7982.8	7982.8	8008.8	8072.0	8116.6	8190.9	8172.3	8213.1
12.5°	8287.4	8313.4	8313.4	8298.6	8317.2	8358.0	8372.9	8454.6	8421.2	8488.0
15°	8710.9	8762.9	8722.1	8696.1	8703.5	8744.3	8740.6	8803.8	8770.3	8826.1
17.5°	9179.0	9245.8	9179.0	9175.2	9160.4	9205.0	9208.7	9264.4	9205.0	9245.8
20°	9732.4	9825.3	9769.6	9788.2	9754.7	9773.3	9791.9	9873.6	9780.7	9810.5
22.5°	10512.5	10624.0	10564.5	10635.1	10612.8	10598.0	10594.2	10739.1	10594.2	10605.4
25°	11649.2	11782.9	11678.9	11775.5	11775.5	11823.8	11879.5	12065.3	11823.8	11753.2
27.5°	13328.2	13462.0	13257.7	13317.1	13298.5	13417.4	13358.0	13818.6	13558.6	13443.4
30°	15349.0	15586.8	15200.4	15185.6	15167.0	15356.5	15441.9	15746.5	15482.8	15367.6
32.5°	17533.3	17782.1	17321.5	17187.8	17117.2	17232.4	17161.8	17407.0	17224.9	17046.6
35°	19843.8	20089.0	19650.6	19390.6	19108.3	18866.8	18614.2	18677.4	18506.5	18235.3
37.5°	22028.0	22477.5	22013.2	21734.6	21214.5	20742.7	20036.9	19743.5	19583.8	19334.9
40°	24253.1	24509.4	24156.5	23918.8	23354.2	22614.9	21485.7	20865.3	20649.9	20408.4
42.5°	25891.3	26136.4	25947.0	25783.5	25341.5	24483.4	23023.5	22247.2	21935.1	21664.0
45°	27191.4	27373.4	27254.6	27314.0	27124.5	26292.5	24617.1	23729.3	23406.2	23075.6
47.5°	27715.2	27908.3	28097.8	28450.7	28773.9	28160.9	26329.6	25334.1	24992.3	24654.3
50°	27655.7	27852.6	28402.4	29152.8	30155.7	29951.4	28134.9	27042.8	26727.1	26340.7
52.5°	27180.3	27403.1	28108.9	29357.1	30954.4	31292.4	29973.7	28807.3	28510.1	28049.5
55°	25932.1	26065.9	27124.5	28892.7	31143.8	32228.5	31775.3	30686.9	30389.7	29747.1
57.5°	23617.9	23811.1	25352.6	27640.9	30668.3	32863.7	33357.8	32663.1	32377.1	31452.1
60°	20597.9	20906.2	22670.7	25538.4	29457.4	32860.0	34795.3	34605.9	34368.2	33131.2
62.5°	17180.4	17537.0	19234.6	22566.6	27340.0	31927.6	35694.3	36232.9	36110.3	34680.2
65°	13194.5	13439.7	15129.9	18722.0	24045.1	29925.4	35798.3	37343.6	37365.9	35857.7
67.5°	8785.2	9491.0	10958.3	14048.9	19632.0	26652.8	34884.5	37525.6	37741.1	36262.6
70°	4286.7	5215.4	6653.0	9130.7	14048.9	21634.3	32496.0	36032.3	36511.5	35081.4
72.5°	1779.3	2080.2	2864.0	4505.9	8064.6	14598.7	27696.6	31983.3	32871.1	31084.4
75°	1199.8	1300.1	1638.2	2310.5	3673.8	7199.0	19973.8	23848.2	25278.4	23476.7
77.5°	925.0	988.1	1192.4	1615.9	2184.2	2722.9	10690.8	14372.1	15111.3	13989.5
80°	728.1	776.4	891.5	1177.6	1549.0	1456.2	3644.1	6511.8	6939.0	5820.9
82.5°	631.5	650.1	638.9	798.7	1029.0	850.7	1196.1	2403.4	2652.3	1924.2
85°	456.9	508.9	531.2	494.1	546.1	430.9	490.3	850.7	936.1	835.8
87.5°	185.7	274.9	338.0	319.5	200.6	122.6	152.3	248.9	286.0	312.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7841.7	0°	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7	7841.7
7845.4	2.5°	7849.1	7875.1	7893.7	7916.0	7930.8	7953.1	7997.7	8023.7	8027.4	8046.0
7904.8	5°	7919.7	7956.8	7997.7	8057.1	8124.0	8179.7	8265.1	8324.6	8346.9	8365.4
8049.7	7.5°	8072.0	8124.0	8198.3	8302.3	8398.9	8473.2	8577.2	8647.8	8718.3	8744.3
8280.0	10°	8298.6	8372.9	8480.6	8621.8	8725.8	8822.3	8930.1	8989.5	9060.1	9089.8
8554.9	12.5°	8580.9	8658.9	8800.1	8996.9	9093.5	9160.4	9197.5	9182.7	9197.5	9223.5
8885.5	15°	8904.1	8989.5	9149.2	9361.0	9427.8	9368.4	9286.7	9212.4	9201.2	9208.7
9286.7	17.5°	9286.7	9349.8	9535.6	9713.9	9665.6	9420.4	9242.1	9123.2	9063.8	9045.2
9799.3	20°	9821.6	9821.6	9973.9	10085.3	9762.2	9346.1	9067.5	8874.4	8751.8	8699.8
10497.7	22.5°	10471.7	10412.2	10508.8	10430.8	9743.6	9138.1	8751.8	8417.4	8231.7	8157.4
11474.6	25°	11296.3	11225.7	11199.7	10716.8	9609.9	8807.5	8179.7	7774.8	7611.4	7570.5
12882.5	27.5°	12540.7	12362.4	12024.4	10872.8	9364.7	8287.4	7511.1	7135.9	7043.0	7046.7
14691.5	30°	14197.5	13840.9	13012.5	10898.9	8963.5	7551.9	6827.6	6560.1	6515.5	6534.1
16210.8	32.5°	15731.6	15393.6	14022.9	10780.0	8346.9	6831.3	6214.6	6036.3	5969.5	5991.8
17369.8	35°	16935.2	16842.3	14959.0	10612.8	7589.1	6155.2	5664.9	5512.6	5382.6	5352.8
18461.9	37.5°	18071.9	18034.7	15661.1	10378.8	6838.7	5676.0	5222.8	5022.2	4832.8	4728.8
19669.2	40°	19320.0	19282.9	16121.7	10018.5	6173.8	5260.0	4825.4	4561.6	4327.6	4138.1
21036.2	42.5°	20724.2	20505.0	16340.8	9502.1	5609.2	4907.1	4502.2	4145.6	3837.3	3662.7
22581.5	45°	22258.3	21764.3	16337.1	8844.6	5133.7	4583.9	4156.7	3651.5	3365.5	3202.0
24167.7	47.5°	23885.3	22967.8	16136.5	8116.6	4673.1	4227.3	3621.8	3235.5	3046.0	2945.7
25891.3	50°	25564.4	24093.4	15794.8	7280.8	4201.3	3822.4	3287.5	3023.7	2878.9	2786.0
27600.0	52.5°	27143.1	25114.9	15382.5	6333.5	3722.1	3428.6	3138.9	2934.6	2782.3	2678.3
29256.8	55°	28610.4	25995.3	14799.3	5364.0	3332.1	3164.9	3068.3	2897.4	2722.9	2600.3
30939.5	57.5°	29914.3	26567.3	13792.6	4453.9	3053.5	2982.9	2994.0	2834.3	2633.7	2529.7
32596.3	60°	30998.9	26987.1	12303.0	3610.7	2826.9	2804.6	2878.9	2715.4	2481.4	2362.5
33996.7	62.5°	31649.0	26979.7	10475.4	2956.9	2633.7	2641.1	2726.6	2566.8	2329.1	2217.7
34728.5	65°	31593.3	26318.5	8469.5	2529.7	2448.0	2455.4	2566.8	2403.4	2202.8	2135.9
34360.7	67.5°	30475.2	24706.3	6497.0	2251.1	2243.7	2277.1	2407.1	2292.0	2124.8	2117.4
32169.1	70°	27447.7	21359.4	4680.5	2028.2	2031.9	2080.2	2251.1	2221.4	2083.9	2098.8
27046.5	72.5°	22009.4	16285.1	3142.6	1794.2	1797.9	1875.9	2102.5	2165.7	2043.1	2239.9
19190.0	75°	14658.1	10155.9	2020.8	1545.3	1549.0	1649.3	1972.5	2057.9	1931.6	2232.5
9985.0	77.5°	7043.0	4565.3	1463.6	1300.1	1300.1	1393.0	1705.0	1842.5	1645.6	1734.8
3209.5	80°	2433.1	1716.2	1151.5	1047.5	1025.2	1088.4	1437.6	1597.3	1419.0	1307.6
1047.5	82.5°	958.4	891.5	925.0	813.5	739.2	780.1	1118.1	1318.7	1043.8	943.5
590.6	85°	549.8	579.5	653.8	538.6	427.2	479.2	820.9	947.2	787.5	694.6
193.2	87.5°	148.6	204.3	300.9	278.6	193.2	204.3	390.0	523.8	453.2	349.2
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°
7841.7
8042.3
8361.7
8748.1
9104.7
9231.0
9234.7
9071.2
8688.6
8146.3
7577.9
7057.9
6597.3
6021.5
5375.1
4732.5
4156.7
3673.8
3194.6
2923.4
2752.6
2633.7
2552.0
2462.8
2310.5
2184.2
2132.2
2128.5
2095.1
2269.7
2251.1
1589.9
1225.8
939.8
709.5
360.3
0.0

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