

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: P851077

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

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55412 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

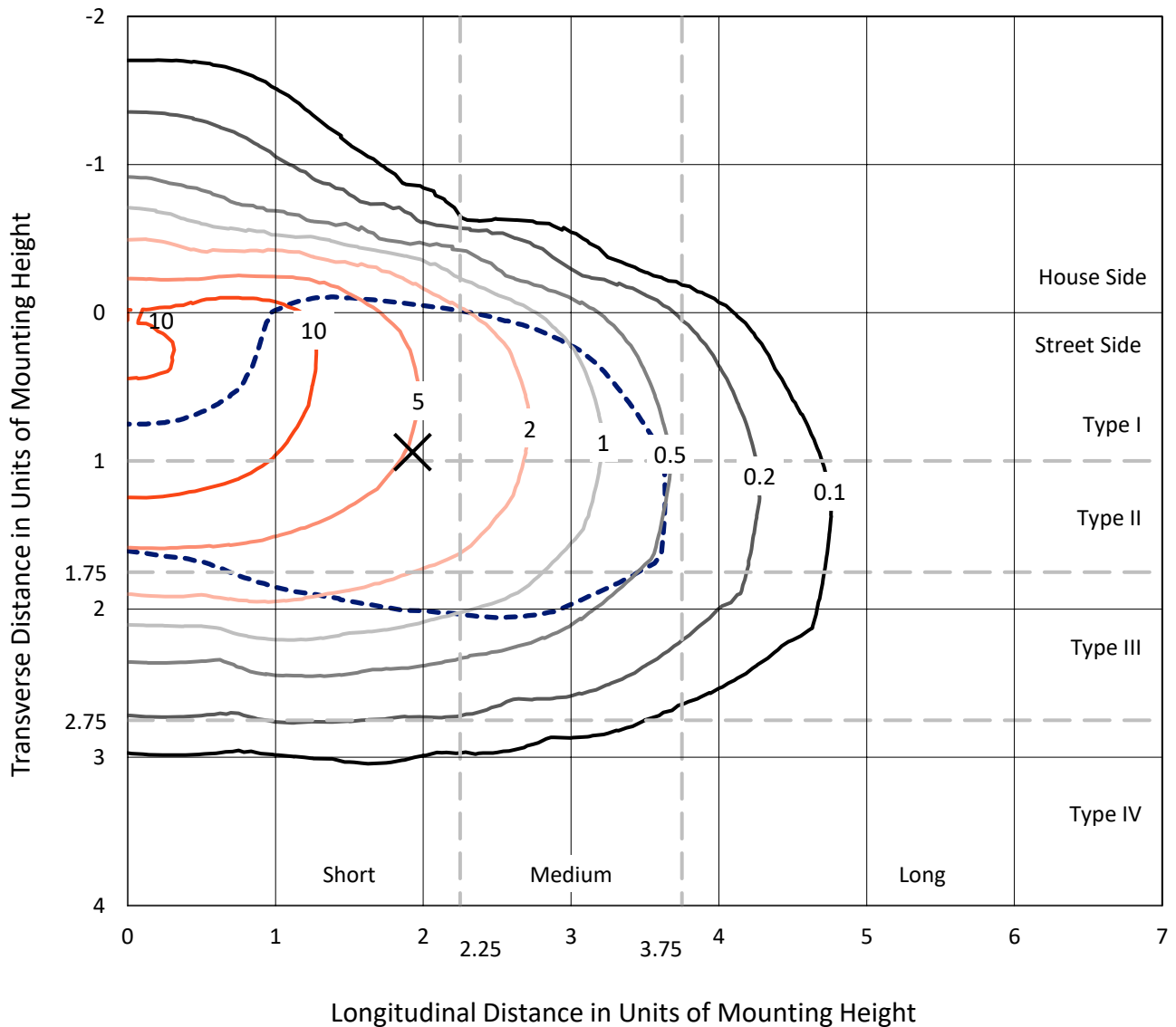
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

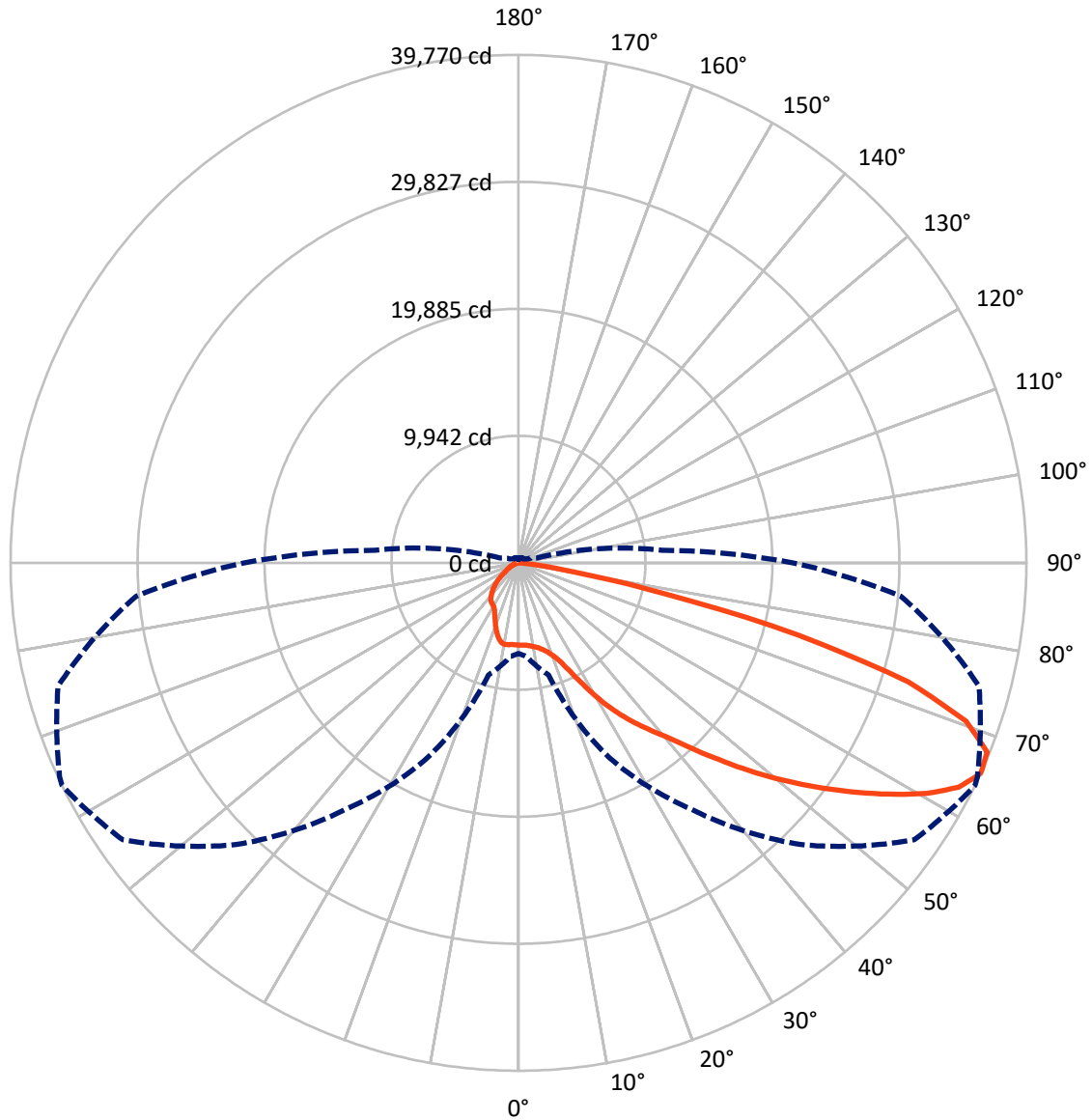
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7410.3	0.0	7410.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	48001.7	0.0	48001.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	55412.0	0.0	55412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.6	1.1
10°-20°	1612.8	2.9
20°-30°	3056.0	5.5
30°-40°	6184.0	11.2
40°-50°	10534.5	19.0
50°-60°	14326.1	25.9
60°-70°	13453.0	24.3
70°-80°	5389.8	9.7
80°-90°	261.1	0.5
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°	55412.0	100.0
0°-180°	55412.0	100.0

Coefficient of Utilization



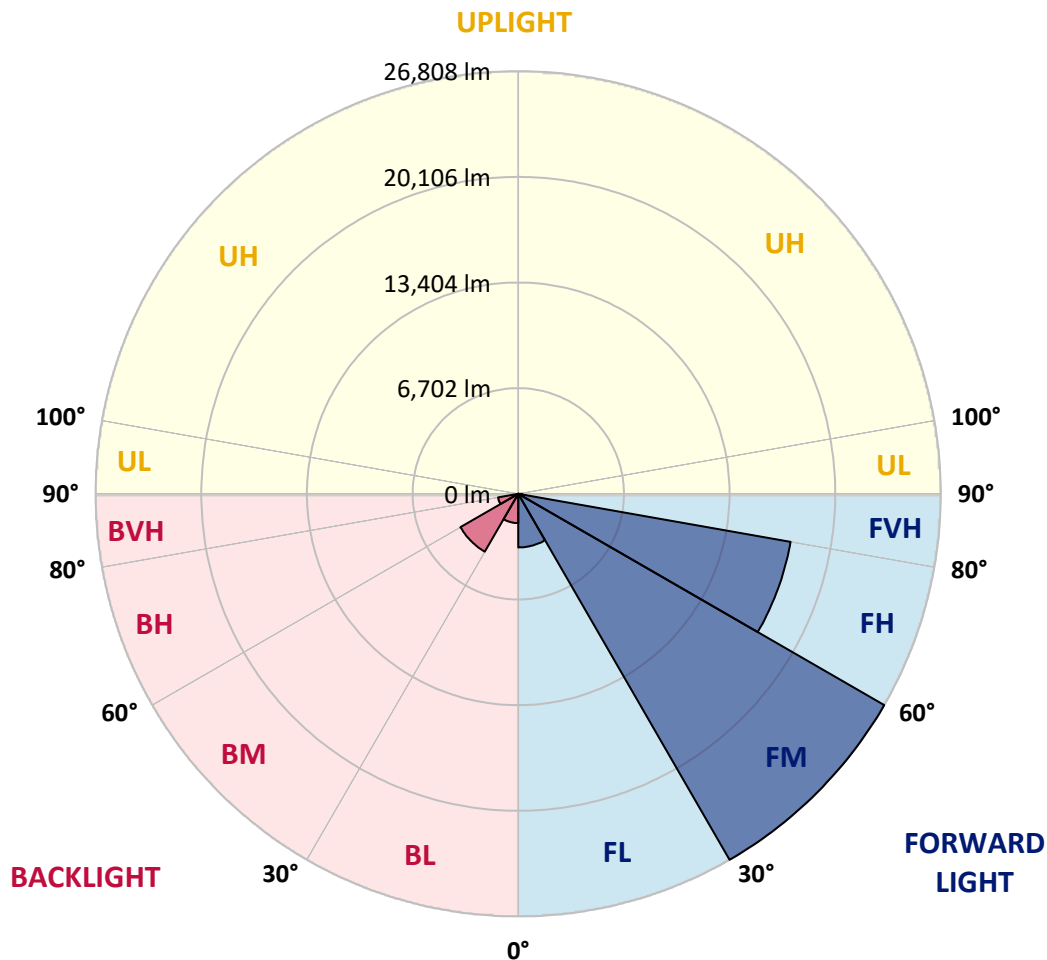
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3402.9	6.1			
FM (30°-60°)	26808.3	48.4			
FH (60°-80°)	17542.2	31.7			G5
FVH (80°-90°)	248.4	0.4			G3/500
BL (0°-30°)	1860.5	3.4	B3/2500		
BM (30°-60°)	4236.4	7.6	B3/5000		
BH (60°-80°)	1300.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0
2.5°	6422.7	6467.3	6456.1	6445.0	6441.3	6448.7	6452.4	6448.7	6448.7	6448.7
5°	6300.1	6337.3	6337.3	6363.3	6400.4	6445.0	6478.4	6485.9	6493.3	6504.4
7.5°	6066.1	6095.8	6118.1	6203.5	6296.4	6415.3	6515.6	6567.6	6575.0	6615.9
10°	5906.4	5943.5	5980.7	6069.8	6203.5	6381.8	6552.7	6679.0	6697.6	6794.2
12.5°	5898.9	5936.1	5984.4	6081.0	6237.0	6426.4	6634.4	6816.5	6849.9	6991.1
15°	5976.9	6021.5	6066.1	6185.0	6352.1	6582.4	6805.3	7031.9	7065.3	7265.9
17.5°	6136.7	6196.1	6229.5	6348.4	6526.7	6783.0	7076.5	7336.5	7366.2	7600.3
20°	6452.4	6523.0	6534.1	6630.7	6805.3	7080.2	7429.4	7752.6	7789.7	8057.2
22.5°	7106.2	7206.5	7117.4	7165.6	7321.7	7596.5	7975.4	8384.1	8436.1	8740.7
25°	8257.8	8398.9	8168.6	8086.9	8153.7	8439.8	8915.3	9431.6	9491.0	9736.2
27.5°	10520.0	10338.0	9988.8	9647.1	9446.5	9609.9	10144.8	10783.8	10858.0	11095.8
30°	13005.1	12845.4	12373.6	11615.8	11140.4	11114.4	11608.4	12321.6	12407.1	12633.7
32.5°	15494.0	15341.7	14829.1	13896.7	13072.0	12663.4	13005.1	13796.4	13840.9	13985.8
35°	17942.0	17785.9	17273.3	16318.6	15304.5	14375.9	14309.0	15200.5	15215.4	15367.7
37.5°	20404.8	20274.8	19728.7	18792.6	17793.4	16511.8	15891.5	16530.4	16549.0	16697.5
40°	22161.9	22217.6	21842.4	21118.0	20259.9	18859.5	17667.1	17945.7	17834.2	18083.1
42.5°	23670.0	23781.5	23454.6	23090.5	22592.8	21359.5	19866.2	19817.9	19639.6	19773.3
45°	24973.9	25066.7	24773.3	24687.8	24676.7	23811.2	22269.6	21979.8	21730.9	21704.9
47.5°	25453.1	25631.4	25757.7	26043.7	26600.9	26236.9	24754.7	24305.2	24026.6	23822.3
50°	25635.1	25824.5	26255.4	27087.5	28406.3	28562.3	27228.7	26723.5	26381.7	26010.3
52.5°	25389.9	25728.0	26307.5	27707.9	29621.0	30427.0	29602.4	29160.3	28770.3	28164.8
55°	23944.9	24282.9	25467.9	27700.5	30226.5	31734.6	31846.1	31649.2	31210.8	30256.2
57.5°	20898.9	21400.3	23276.3	26756.9	30215.3	32860.2	34045.2	34186.3	33696.0	32329.0
60°	16679.0	17358.8	19647.0	24665.6	29282.9	33469.4	35973.1	36678.9	36158.8	34372.0
62.5°	11638.1	12425.6	14591.3	21389.2	27150.7	33031.0	37380.9	38684.8	38291.0	36199.7
65°	7098.8	7351.4	9097.3	16831.3	23525.1	31196.0	37815.6	39769.5	39639.5	37317.8
67.5°	4728.8	4940.5	5442.0	11541.5	18261.4	27529.6	36775.5	39580.0	39617.2	37135.8
70°	2849.2	3031.2	3358.1	6712.4	11835.0	21790.4	33554.8	37165.5	37380.9	34702.7
72.5°	1173.8	1296.4	1593.6	3042.3	6129.2	13829.8	26719.8	31909.2	32410.7	29178.9
75°	664.9	728.1	936.1	1526.7	2659.7	6445.0	16184.9	22652.2	23391.4	20111.3
77.5°	442.0	471.8	605.5	988.1	1497.0	2199.1	6916.8	11801.6	13213.2	10984.3
80°	297.2	323.2	416.0	661.2	973.2	943.5	2202.8	4372.2	5378.9	3774.1
82.5°	200.6	204.3	297.2	434.6	616.6	456.9	650.1	1359.6	1708.8	1092.1
85°	115.2	111.4	219.2	252.6	274.9	189.4	196.9	408.6	534.9	460.6
87.5°	14.9	22.3	85.4	66.9	37.1	40.9	40.9	70.6	104.0	111.4
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°
6445.0	0°	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0	6445.0
6452.4	2.5°	6452.4	6448.7	6437.6	6426.4	6400.4	6385.6	6393.0	6385.6	6381.8	6385.6
6500.7	5°	6500.7	6489.6	6459.8	6422.7	6370.7	6307.5	6266.7	6207.3	6151.5	6118.1
6630.7	7.5°	6630.7	6619.6	6578.7	6474.7	6307.5	6043.8	5802.3	5590.6	5430.9	5338.0
6838.7	10°	6838.7	6820.2	6757.0	6526.7	6088.4	5512.6	5033.4	4635.9	4375.9	4253.3
7083.9	12.5°	7083.9	7061.6	6950.2	6478.4	5672.3	4773.4	4112.2	3670.1	3428.7	3320.9
7366.2	15°	7373.7	7343.9	7124.8	6248.1	5066.8	3956.1	3350.7	3020.0	2864.0	2767.4
7726.6	17.5°	7734.0	7682.0	7254.8	5902.6	4409.3	3332.1	2882.6	2633.7	2496.3	2403.4
8198.3	20°	8202.0	8116.6	7358.8	5490.3	3803.8	2938.3	2566.9	2358.8	2254.8	2173.1
8867.0	22.5°	8855.8	8733.2	7485.1	5044.6	3376.7	2667.1	2332.8	2180.5	2095.1	2002.2
9799.4	25°	9665.6	9520.8	7641.1	4632.2	3083.2	2433.1	2162.0	2035.7	1935.4	1827.6
11021.5	27.5°	10798.6	10538.6	7826.9	4294.2	2830.6	2232.5	2005.9	1864.8	1749.6	1660.5
12407.1	30°	12061.6	11634.4	7990.3	4089.9	2600.3	2046.8	1801.6	1660.5	1552.7	1489.6
13651.5	32.5°	13257.7	12678.2	8098.0	4000.7	2392.3	1835.1	1578.7	1426.4	1344.7	1326.1
14869.9	35°	14387.0	13621.8	8086.9	3915.3	2206.5	1623.3	1359.6	1203.6	1140.4	1151.6
16181.2	37.5°	15687.1	14628.5	8008.9	3781.6	2054.2	1430.2	1170.1	1032.7	977.0	980.7
17774.8	40°	17199.0	15791.2	7960.6	3529.0	1887.1	1251.9	1014.1	902.7	861.8	846.9
19453.8	42.5°	18811.2	16916.7	7968.0	3242.9	1679.0	1092.1	906.4	813.5	776.4	765.2
21322.3	45°	20430.8	17990.3	7979.2	2945.8	1459.9	969.5	828.4	750.4	728.1	713.2
23216.8	47.5°	21953.8	18904.1	7771.1	2626.3	1244.4	876.7	765.2	713.2	694.6	676.1
25118.7	50°	23372.8	19513.3	7269.7	2254.8	1073.5	802.4	716.9	679.8	661.2	642.6
26842.4	52.5°	24476.1	19609.9	6441.3	1872.2	954.7	746.7	687.2	653.8	631.5	612.9
28235.4	55°	24966.4	19004.4	5263.7	1515.6	861.8	698.4	657.5	624.1	598.1	579.5
29331.2	57.5°	24840.1	17730.2	4104.7	1218.4	772.7	650.1	620.4	598.1	568.3	538.6
30219.0	60°	24219.8	16025.2	3094.3	1014.1	690.9	598.1	579.5	560.9	520.1	475.5
30560.8	62.5°	23146.2	13881.8	2206.5	839.5	601.8	538.6	531.2	516.3	456.9	375.2
30055.6	65°	21504.4	11277.8	1485.9	698.4	516.3	471.8	475.5	449.5	371.5	278.6
28205.7	67.5°	19104.7	8246.6	951.0	572.1	430.9	393.8	397.5	382.6	315.7	237.7
24699.0	70°	16047.5	5460.6	620.4	434.6	345.5	304.6	326.9	330.6	267.5	193.2
18956.1	72.5°	11764.4	3224.4	434.6	323.2	252.6	211.7	267.5	274.9	215.5	144.9
11404.1	75°	6705.0	1530.5	326.9	234.0	156.0	148.6	208.0	208.0	148.6	96.6
4936.8	77.5°	2815.7	638.9	230.3	152.3	89.2	85.4	141.2	130.0	74.3	44.6
1203.6	80°	813.5	286.0	122.6	74.3	37.1	33.4	55.7	40.9	18.6	7.4
456.9	82.5°	319.5	126.3	48.3	29.7	14.9	14.9	7.4	0.0	0.0	0.0
260.0	85°	189.4	52.0	22.3	11.1	3.7	0.0	0.0	0.0	0.0	0.0
55.7	87.5°	48.3	11.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
6445.0
6400.4
6125.5
5341.7
4242.2
3309.8
2771.2
2396.0
2158.2
1987.4
1816.5
1641.9
1478.4
1337.3
1151.6
995.5
843.2
761.5
713.2
676.1
642.6
609.2
575.8
534.9
468.1
367.8
271.2
226.6
185.7
137.4
89.2
44.6
7.4
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