

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: P851756

Luminaire Tested: **GLAN-SB9D-850-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851756  
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-SB9D-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 78857 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

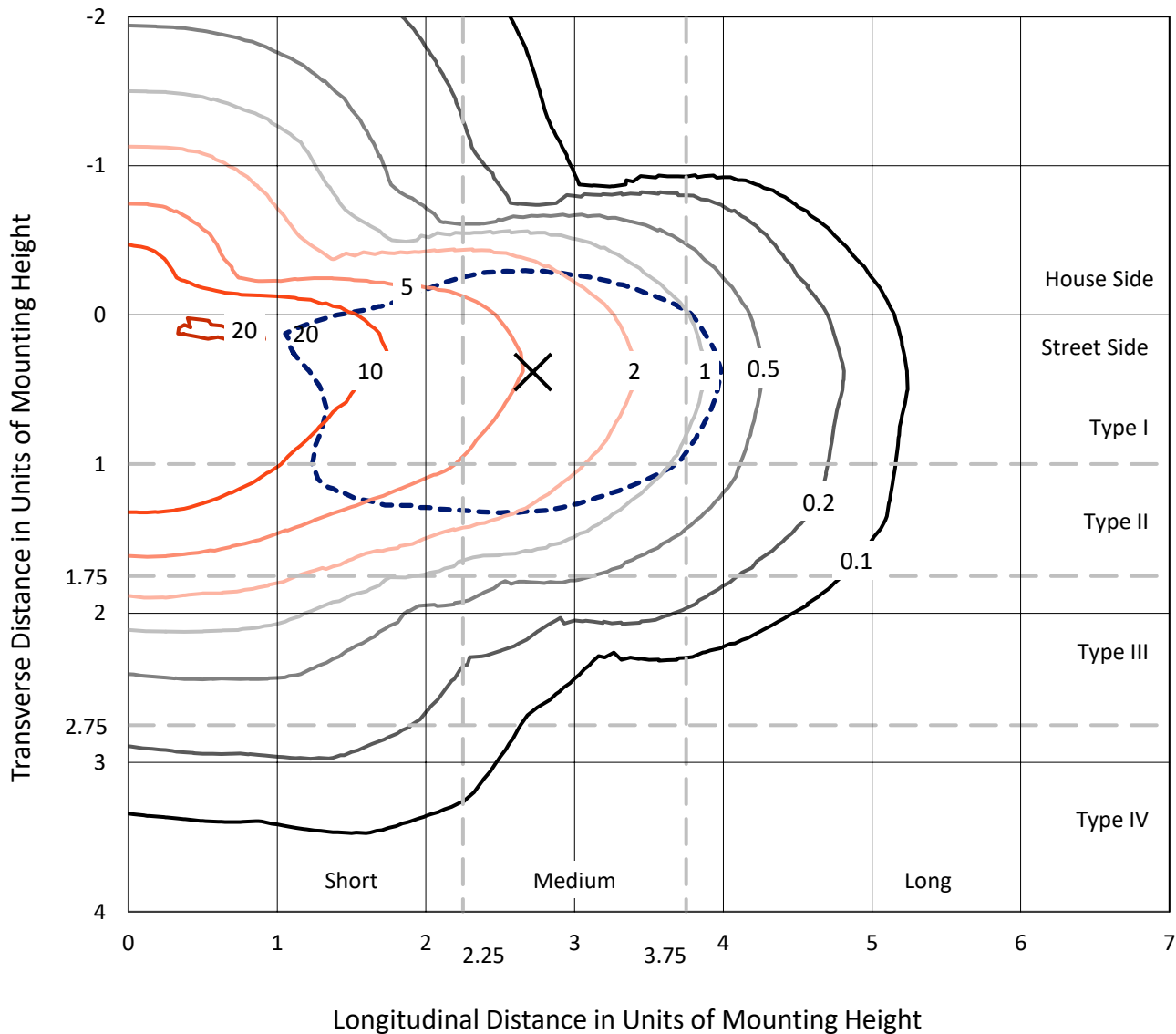
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

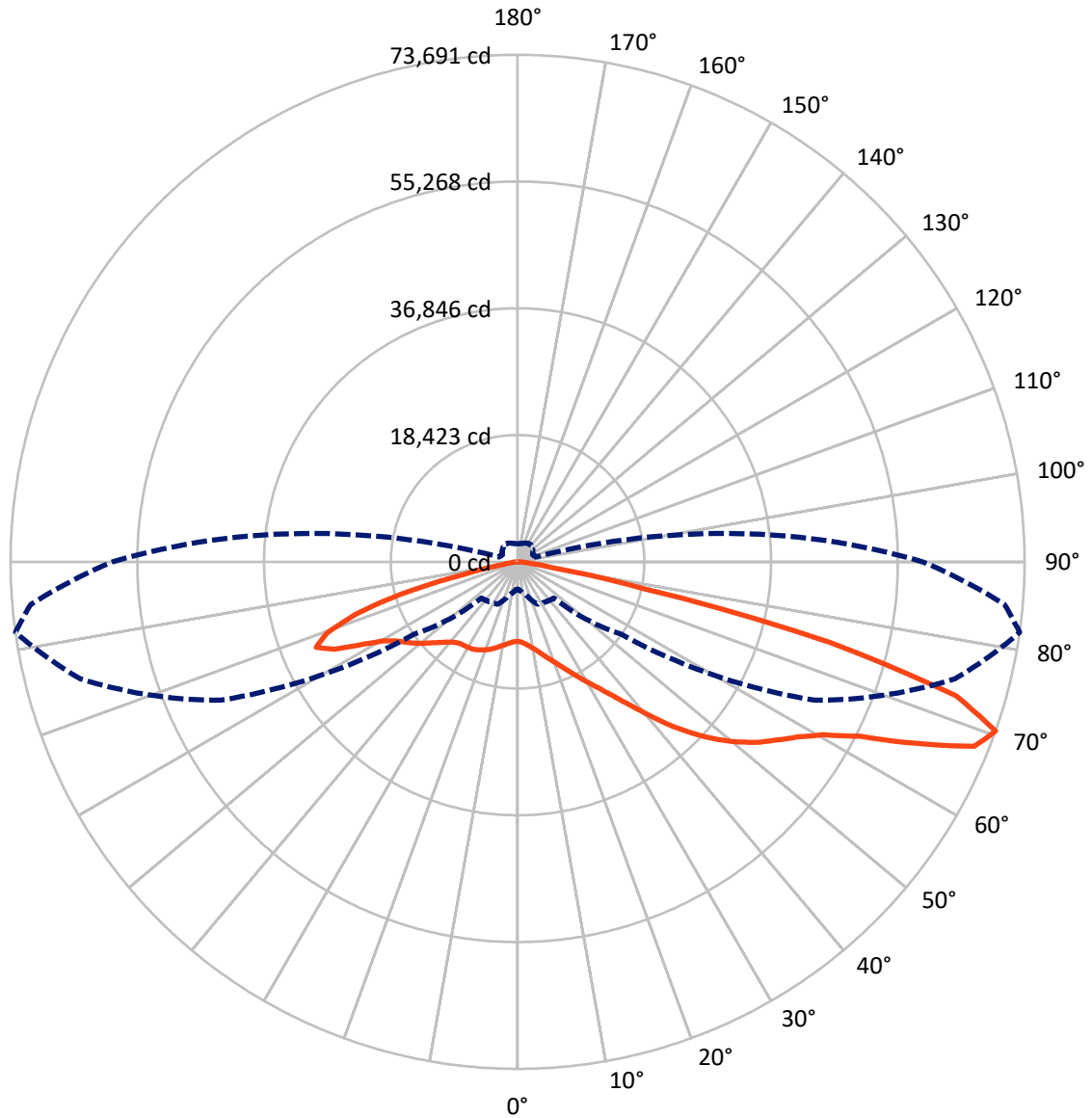
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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
<b>House Side</b>	Lumens	19440.2	0.0	19440.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	59416.8	0.0	59416.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	78857.0	0.0	78857.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1091.6	1.4
10°-20°	3136.2	4.0
20°-30°	5246.6	6.7
30°-40°	8196.6	10.4
40°-50°	13054.0	16.6
50°-60°	18166.2	23.0
60°-70°	19002.7	24.1
70°-80°	9931.8	12.6
80°-90°	1031.3	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°	78857.0	100.0
0°-180°	78857.0	100.0

**Coefficient of Utilization**

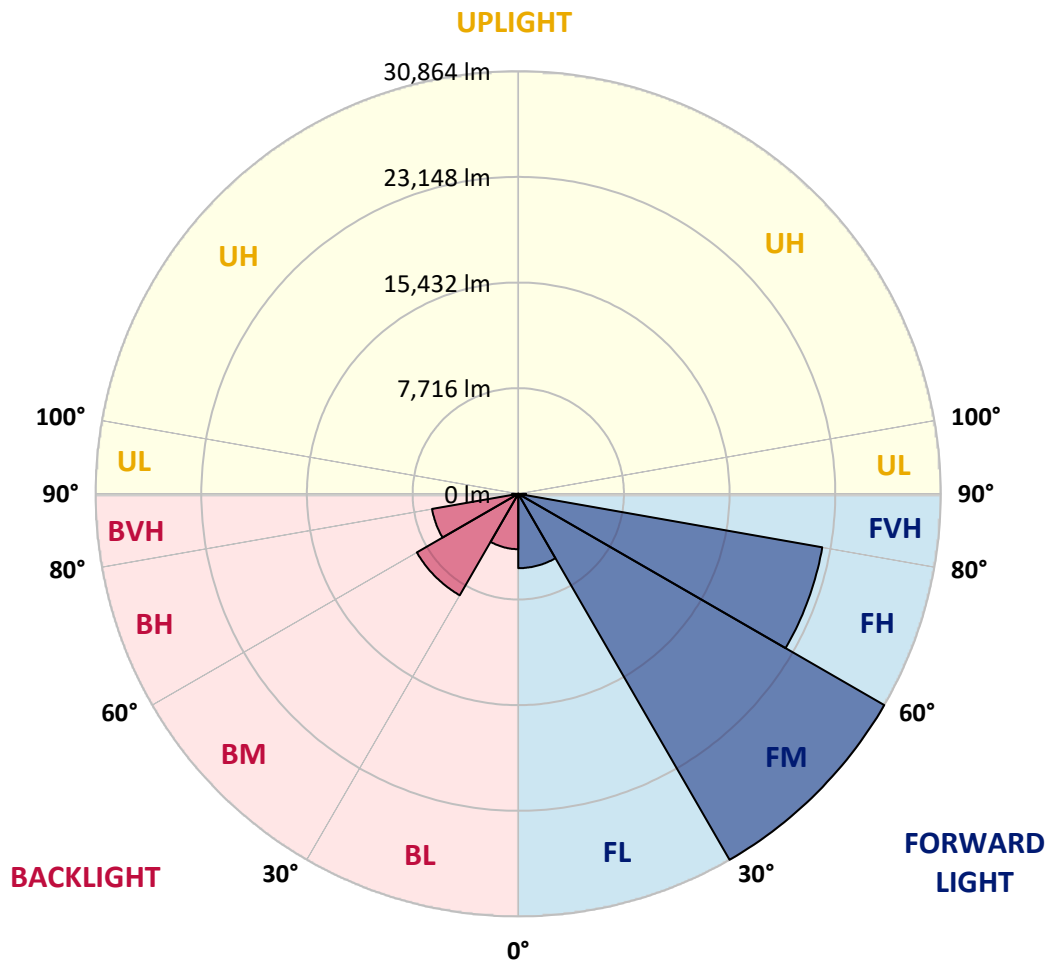


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5430.2	6.9			
FM (30°-60°)	30863.8	39.1			
FH (60°-80°)	22545.5	28.6			G5
FVH (80°-90°)	577.3	0.7			G4/750
BL (0°-30°)	4044.3	5.1	B4/5000		
BM (30°-60°)	8552.9	10.8	B5		
BH (60°-80°)	6389.0	8.1	B5		G5
BVH (80°-90°)	454.0	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4
2.5°	11837.6	11904.5	11883.6	11862.7	11862.7	11833.4	11829.2	11787.4	11753.9	11699.5
5°	11988.2	12059.4	12051.0	12067.7	12122.1	12134.7	12147.2	12122.1	12055.2	11988.2
7.5°	11854.3	11933.8	11958.9	12059.4	12226.7	12377.4	12490.4	12536.4	12473.6	12377.4
10°	11402.4	11490.3	11578.2	11816.7	12113.8	12469.4	12770.7	12950.6	12938.1	12846.0
12.5°	10486.0	10578.1	10766.4	11230.9	11774.8	12402.5	12963.2	13339.8	13469.5	13402.5
15°	9753.8	9833.3	9975.5	10452.6	11159.7	12113.8	13034.3	13766.6	14097.2	14059.5
17.5°	9732.9	9766.3	9854.2	10080.2	10624.1	11661.8	12959.0	14185.0	14816.9	14812.7
20°	10101.1	10113.6	10163.8	10209.9	10519.5	11318.7	12766.5	14532.3	15624.4	15624.4
22.5°	10611.6	10603.2	10653.4	10611.6	10762.2	11289.4	12645.2	14837.8	16524.1	16591.0
25°	11377.3	11335.5	11322.9	11226.7	11256.0	11561.4	12779.1	15185.1	17591.1	17729.2
27.5°	12398.3	12331.3	12285.3	12063.5	11988.2	12122.1	13189.1	15603.5	18779.5	19018.0
30°	13728.9	13607.6	13540.6	13155.7	12883.7	12904.6	13808.4	16160.0	20022.2	20407.2
32.5°	15544.9	15356.6	15176.7	14544.9	14046.9	13883.7	14607.6	16930.0	21369.6	21984.7
35°	17578.6	17427.9	17235.4	16260.5	15494.7	15118.1	15687.2	18005.4	22947.1	23922.1
37.5°	19536.8	19407.1	19499.2	18185.3	17197.8	16649.6	17101.5	19449.0	24892.8	26332.3
40°	21562.1	21461.6	21474.2	20218.9	19068.2	18453.1	18817.1	21260.8	27123.1	29198.6
42.5°	23763.1	23687.7	23436.7	22323.6	21030.7	20457.4	20792.1	23353.0	29516.6	32462.4
45°	26227.6	26181.6	25947.3	24671.1	23189.8	22545.4	22997.3	25662.8	31922.6	35533.7
47.5°	28357.5	28395.2	28365.9	27290.5	25754.8	24809.1	25348.9	28073.0	34161.2	38420.9
50°	29382.7	29579.3	29868.1	29533.3	28579.3	27616.9	27721.5	30399.5	36295.3	41128.2
52.5°	28847.1	29219.5	30006.1	30541.7	30910.0	30709.1	30428.8	32709.2	38303.7	43571.9
55°	26851.1	27374.2	28679.7	29972.7	31851.4	33311.8	33680.0	35270.1	40262.0	45722.6
57.5°	23214.9	24064.3	25236.0	27851.2	31014.6	34571.3	37471.1	38822.6	42337.5	48019.9
60°	16980.2	18118.3	19574.5	23466.0	28085.5	33897.6	40697.2	44279.0	45287.5	50995.0
62.5°	10866.8	11569.8	12908.8	16574.3	21884.3	30445.5	41684.7	51099.6	50287.8	55873.9
65°	7439.8	7891.7	9117.7	11176.5	14147.4	22662.6	39040.2	56212.9	58229.7	63606.7
67.5°	5406.2	5749.3	6795.4	8598.9	9218.2	13410.9	30294.9	55978.5	65949.9	71573.7
70°	3941.7	4184.4	5063.1	6795.4	7092.5	7460.7	18352.7	47584.7	65782.5	73691.0
72.5°	2920.7	3088.1	3678.1	5272.3	5741.0	5038.0	9084.3	34583.8	56526.7	66652.9
75°	2113.1	2238.6	2673.8	4033.7	4594.4	3837.1	4531.7	20210.5	39429.3	46885.9
77.5°	1615.2	1711.4	1995.9	2954.2	3678.1	2878.8	2811.9	9297.7	18695.8	18787.8
80°	1297.2	1359.9	1514.7	2079.6	2820.3	2155.0	1832.8	3753.4	5908.3	5000.3
82.5°	954.0	1058.6	1280.4	1460.3	2016.9	1485.5	1117.2	1895.5	2247.0	1933.2
85°	544.0	615.1	774.1	1046.1	1288.8	908.0	640.2	841.1	1046.1	857.8
87.5°	192.5	251.1	272.0	410.1	560.7	376.6	246.9	242.7	343.1	255.2
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°
11561.4	0°	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4	11561.4
11687.0	2.5°	11645.1	11624.2	11540.5	11427.5	11310.4	11197.4	11159.7	11080.2	11025.8	10996.5
11958.9	5°	11879.4	11812.5	11615.8	11364.8	11101.1	10816.6	10615.8	10431.6	10297.7	10172.2
12331.3	7.5°	12214.2	12097.0	11758.1	11318.7	10850.1	10377.2	10025.8	9758.0	9578.0	9460.9
12766.5	10°	12603.3	12423.4	11904.5	11247.6	10523.7	9845.8	9431.6	9201.4	9088.5	9025.7
13264.5	12.5°	13051.1	12795.8	12055.2	11084.4	10025.8	9251.6	8967.1	8900.2	8904.3	8908.5
13892.1	15°	13603.4	13247.7	12176.5	10728.7	9377.2	8795.6	8745.3	8854.1	8967.1	9021.5
14603.5	17.5°	14226.9	13724.7	12197.4	10142.9	8741.2	8502.6	8661.7	8896.0	9067.5	9142.9
15398.5	20°	14896.4	14210.1	12046.8	9314.4	8218.1	8264.1	8548.7	8849.9	9038.2	9134.5
16306.5	22.5°	15662.1	14729.0	11687.0	8444.1	7791.3	8004.7	8339.5	8632.4	8829.0	8925.3
17373.5	25°	16536.6	15310.6	11122.1	7711.8	7423.1	7711.8	8046.5	8289.2	8448.2	8536.1
18566.1	27.5°	17507.4	15917.4	10368.9	7130.2	7100.9	7410.5	7686.7	7875.0	7958.7	8025.6
19833.9	30°	18482.4	16469.7	9456.7	6690.8	6820.5	7113.4	7310.1	7393.8	7418.9	7431.4
21248.2	32.5°	19536.8	16946.7	8498.5	6326.8	6552.7	6824.7	6941.9	6979.5	6862.4	6782.9
22963.8	35°	20813.1	17457.2	7561.2	6038.1	6289.1	6523.4	6561.1	6527.6	6389.5	6226.3
25114.6	37.5°	22390.6	18093.2	6812.2	5833.0	6042.2	6197.1	6151.0	6142.7	6155.2	5962.7
27700.5	40°	24323.8	18921.7	6264.0	5674.0	5841.4	5874.9	5745.1	5816.3	5879.0	5586.1
30537.6	42.5°	26470.3	19921.8	5916.7	5565.2	5674.0	5594.5	5393.7	5473.2	5464.8	5079.8
33387.1	45°	28658.8	21009.7	5795.4	5485.7	5519.2	5360.2	5138.4	5159.3	4983.6	4636.3
36119.5	47.5°	30834.6	22177.2	5870.7	5418.8	5326.7	5146.8	4975.2	4883.2	4623.7	4364.3
38738.9	50°	32968.7	23403.2	6146.8	5284.9	5063.1	4958.5	4833.0	4669.8	4393.6	4171.8
41216.1	52.5°	34947.9	24637.6	6456.5	5063.1	4732.5	4795.3	4715.8	4527.5	4255.5	4029.6
43559.3	55°	36822.5	25872.0	6577.8	4757.6	4422.9	4653.0	4607.0	4259.7	3933.3	3749.2
46011.4	57.5°	38864.5	27357.4	6443.9	4368.5	4171.8	4489.8	4314.1	3929.1	3740.8	3602.7
49204.0	60°	41693.1	29688.1	6155.2	3887.3	3933.3	4247.1	3945.9	3786.9	3581.8	3427.0
53991.0	62.5°	46392.1	34035.7	5690.7	3410.3	3653.0	3887.3	3770.1	3611.1	3401.9	3251.3
62175.6	65°	53338.2	40077.9	4816.2	3037.9	3339.1	3535.8	3581.8	3422.8	3205.2	3046.2
69347.6	67.5°	59196.3	43869.0	3644.6	2728.2	3016.9	3251.3	3381.0	3226.2	2996.0	2841.2
71025.5	70°	58874.1	41115.6	2782.6	2422.8	2732.4	2970.9	3138.3	3016.9	2770.1	2623.6
64514.7	72.5°	52292.1	34395.5	2251.2	2113.1	2443.7	2678.0	2878.8	2786.8	2535.7	2393.5
47262.5	75°	38416.7	24415.8	1799.3	1799.3	2083.8	2372.5	2594.3	2535.7	2305.6	2205.2
19842.3	77.5°	16193.5	10243.3	1410.1	1493.8	1732.3	2037.8	2314.0	2334.9	2134.0	2259.6
5247.2	80°	4305.7	2824.5	1075.4	1175.8	1359.9	1682.1	2012.7	2004.3	1786.7	1669.6
1949.9	82.5°	1640.3	1113.0	765.7	828.5	983.3	1288.8	1594.2	1644.5	1426.9	1234.4
765.7	85°	631.8	477.0	472.8	497.9	573.3	853.6	1205.1	1246.9	1075.4	912.2
213.4	87.5°	163.2	142.3	175.7	167.4	263.6	456.1	690.4	715.5	656.9	380.8
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°
11561.4
11030.0
10222.4
9486.0
9042.4
8916.9
9017.3
9159.6
9159.6
8950.4
8561.2
8050.7
7460.7
6808.0
6234.7
5975.3
5594.5
5075.6
4648.8
4364.3
4155.1
4033.7
3732.5
3590.2
3418.6
3251.3
3054.6
2845.4
2636.2
2393.5
2175.9
2050.3
1552.4
1234.4
941.5
544.0
0.0

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