

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: P849036

Luminaire Tested: **GLAN-SB5D-850-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849036
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-SB5D-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 43733 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

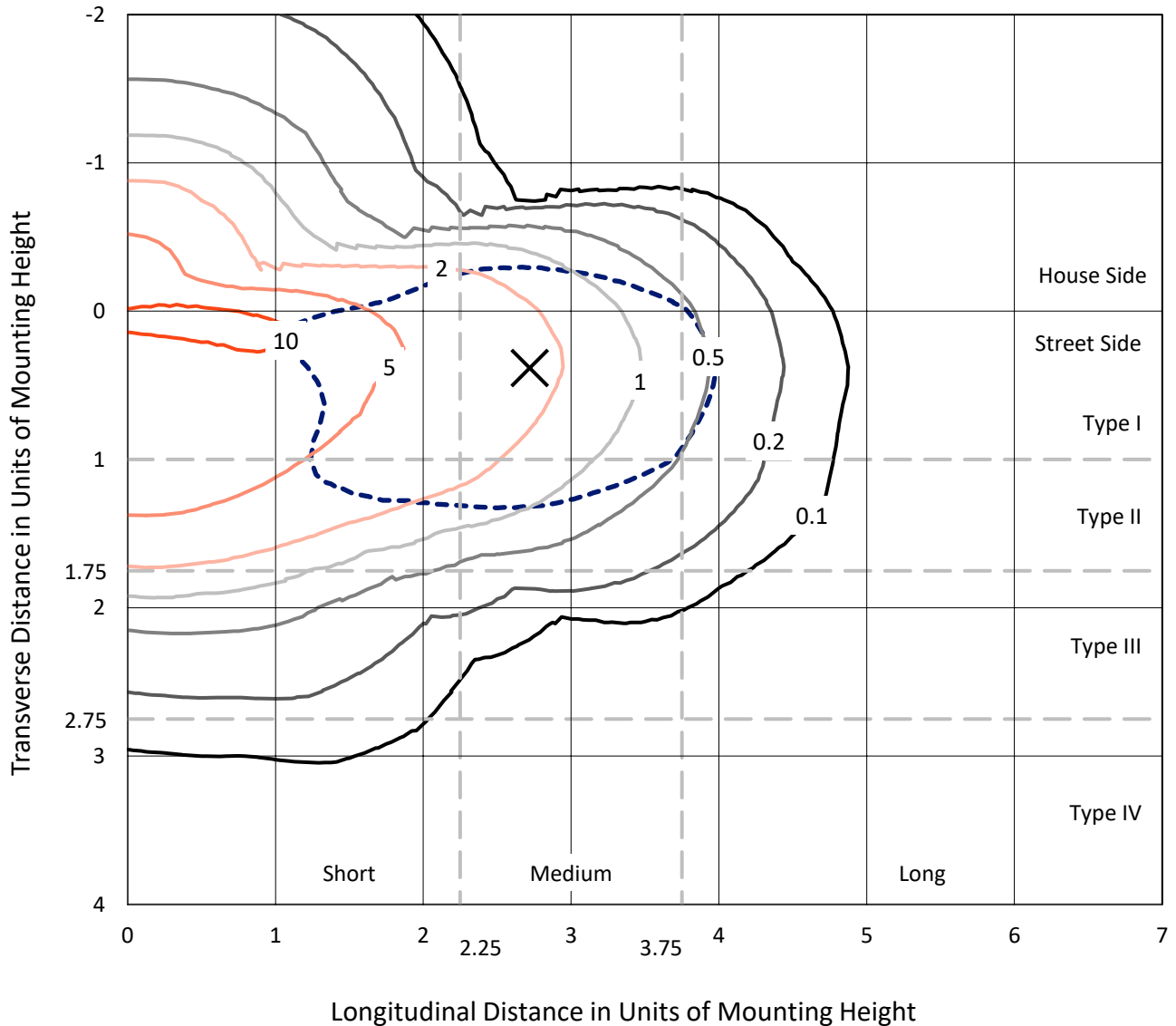
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

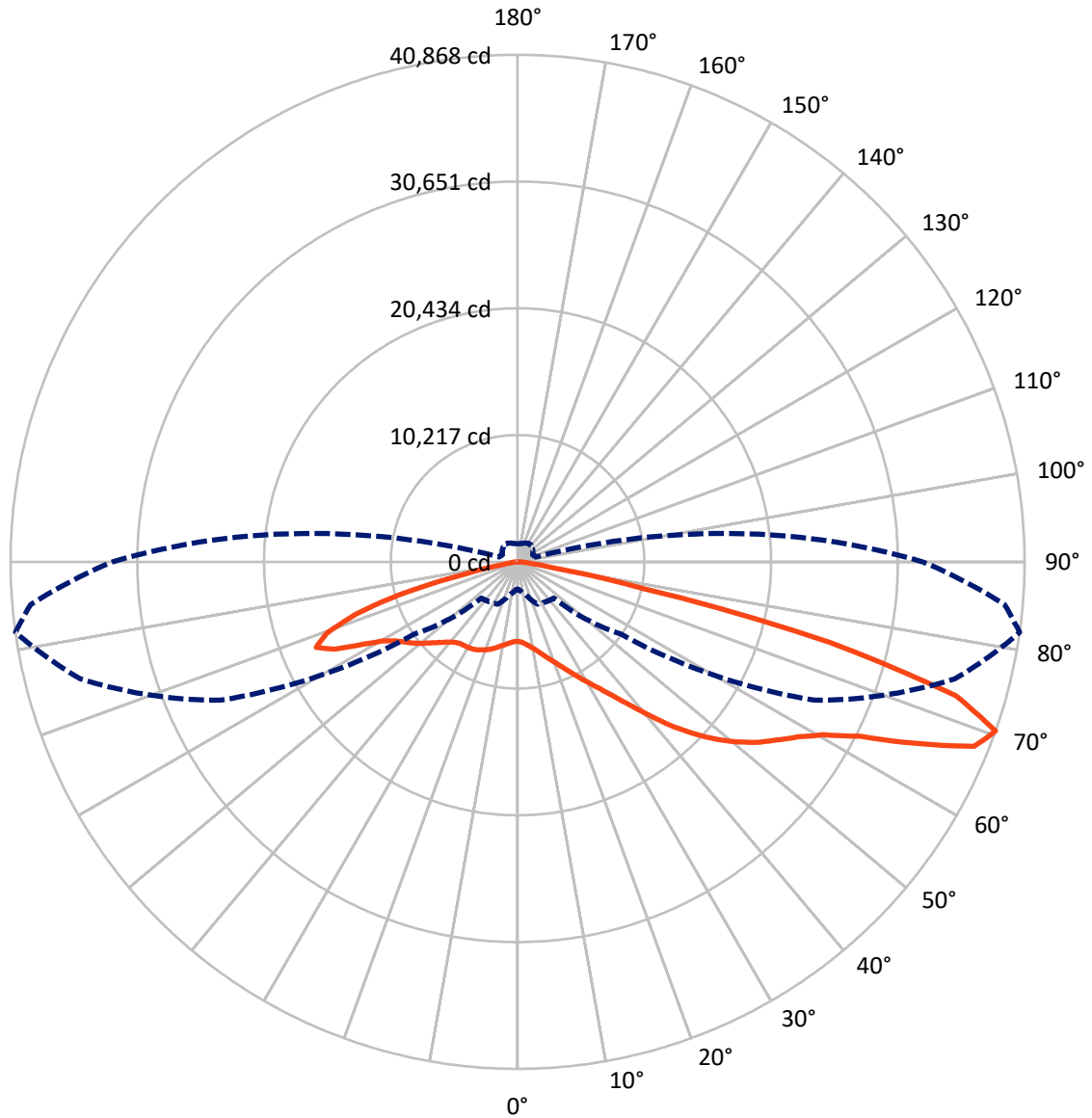
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	10781.2	0.0	10781.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32951.7	0.0	32951.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	43733.0	0.0	43733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	1.4
10°-20°	1739.3	4.0
20°-30°	2909.7	6.7
30°-40°	4545.7	10.4
40°-50°	7239.6	16.6
50°-60°	10074.7	23.0
60°-70°	10538.6	24.1
70°-80°	5508.1	12.6
80°-90°	571.9	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°	43733.0	100.0
0°-180°	43733.0	100.0

Coefficient of Utilization



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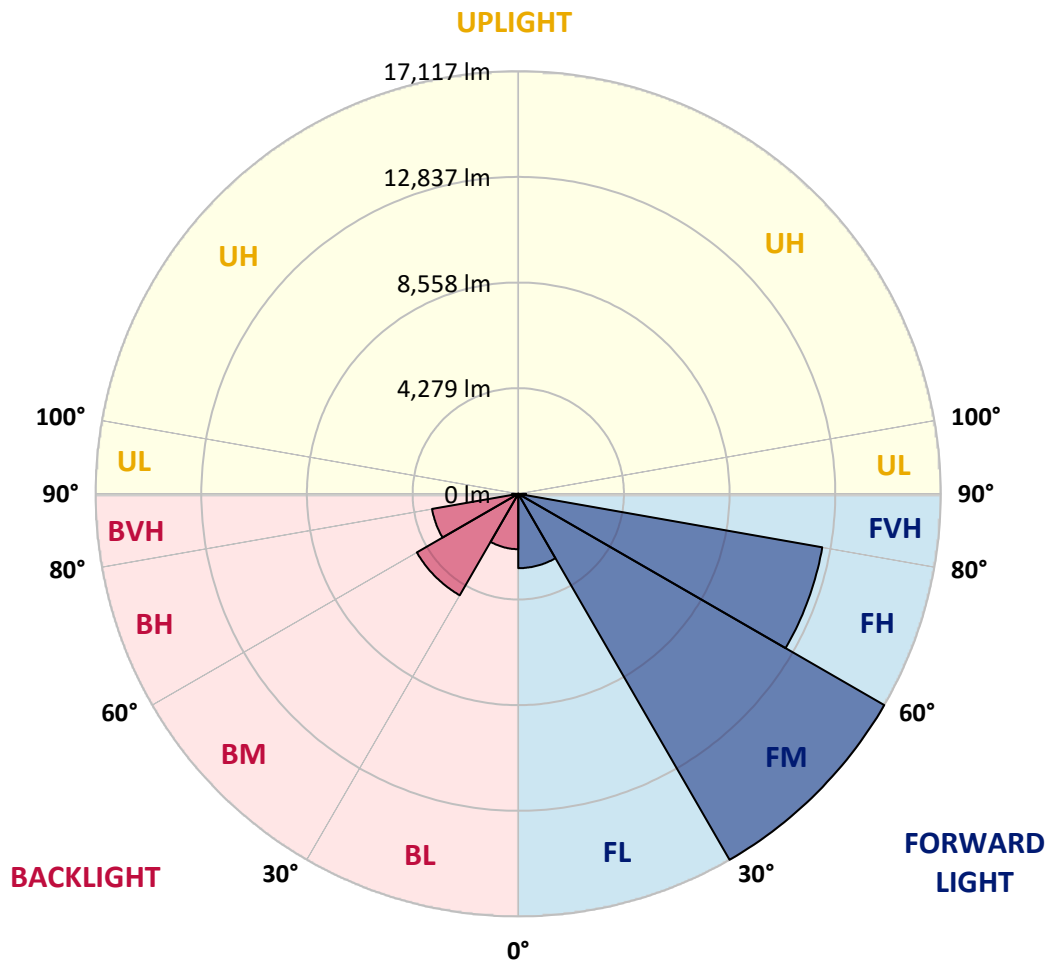
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3011.5	6.9			
FM (30°-60°)	17116.7	39.1			
FH (60°-80°)	12503.4	28.6			G5
FVH (80°-90°)	320.2	0.7			G3/500
BL (0°-30°)	2242.9	5.1	B3/2500		
BM (30°-60°)	4743.3	10.8	B3/5000		
BH (60°-80°)	3543.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	251.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8
2.5°	6565.0	6602.1	6590.5	6578.9	6578.9	6562.6	6560.3	6537.1	6518.6	6488.4
5°	6648.5	6688.0	6683.3	6692.6	6722.8	6729.7	6736.7	6722.8	6685.6	6648.5
7.5°	6574.2	6618.3	6632.3	6688.0	6780.8	6864.3	6927.0	6952.5	6917.7	6864.3
10°	6323.6	6372.4	6421.1	6553.4	6718.1	6915.4	7082.5	7182.2	7175.3	7124.2
12.5°	5815.4	5866.5	5970.9	6228.5	6530.2	6878.2	7189.2	7398.1	7470.0	7432.9
15°	5409.3	5453.4	5532.3	5796.8	6189.0	6718.1	7228.7	7634.8	7818.1	7797.2
17.5°	5397.7	5416.3	5465.0	5590.3	5892.0	6467.5	7186.9	7866.8	8217.2	8214.9
20°	5601.9	5608.9	5636.7	5662.3	5834.0	6277.2	7080.1	8059.4	8665.1	8665.1
22.5°	5885.0	5880.4	5908.2	5885.0	5968.6	6261.0	7012.8	8228.8	9164.0	9201.2
25°	6309.7	6286.5	6279.5	6226.2	6242.4	6411.8	7087.1	8421.4	9755.8	9832.4
27.5°	6875.9	6838.8	6813.3	6690.3	6648.5	6722.8	7314.5	8653.5	10414.8	10547.1
30°	7613.9	7546.6	7509.4	7296.0	7145.1	7156.7	7658.0	8962.1	11104.0	11317.5
32.5°	8621.0	8516.6	8416.8	8066.4	7790.2	7699.7	8101.2	9389.1	11851.3	12192.4
35°	9748.8	9665.3	9558.5	9017.8	8593.2	8384.3	8699.9	9985.5	12726.1	13266.8
37.5°	10834.9	10762.9	10814.0	10085.3	9537.6	9233.6	9484.3	10786.1	13805.2	14603.5
40°	11958.0	11902.3	11909.3	11213.1	10575.0	10233.8	10435.7	11790.9	15042.1	16193.1
42.5°	13178.7	13136.9	12997.7	12380.4	11663.3	11345.4	11531.0	12951.2	16369.5	18003.2
45°	14545.5	14520.0	14390.0	13682.2	12860.7	12503.4	12754.0	14232.2	17703.8	19706.5
47.5°	15726.7	15747.6	15731.3	15134.9	14283.3	13758.8	14058.2	15568.9	18945.3	21307.7
50°	16295.2	16404.3	16564.4	16378.8	15849.7	15315.9	15373.9	16859.1	20128.8	22809.1
52.5°	15998.2	16204.7	16641.0	16938.0	17142.2	17030.8	16875.4	18140.1	21242.7	24164.4
55°	14891.3	15181.3	15905.4	16622.4	17664.4	18474.3	18678.5	19560.3	22328.8	25357.1
57.5°	12874.7	13345.7	13995.5	15445.9	17200.3	19172.8	20780.9	21530.5	23479.8	26631.2
60°	9417.0	10048.2	10855.7	13013.9	15575.8	18799.1	22570.1	24556.5	25115.8	28281.1
62.5°	6026.6	6416.4	7159.0	9191.9	12136.7	16884.7	23117.8	28339.1	27888.9	30986.9
65°	4126.0	4376.6	5056.6	6198.3	7845.9	12568.3	21651.2	31174.9	32293.4	35275.4
67.5°	2998.2	3188.5	3768.6	4768.8	5112.3	7437.5	16801.1	31044.9	36574.9	39693.8
70°	2186.0	2320.6	2807.9	3768.6	3933.4	4137.6	10178.1	26389.8	36482.1	40868.0
72.5°	1619.8	1712.6	2039.8	2924.0	3183.9	2794.0	5038.0	19179.7	31348.9	36964.8
75°	1171.9	1241.5	1482.9	2237.1	2548.0	2128.0	2513.2	11208.5	21867.0	26002.3
77.5°	895.7	949.1	1106.9	1638.3	2039.8	1596.6	1559.4	5156.4	10368.4	10419.5
80°	719.4	754.2	840.1	1153.3	1564.1	1195.1	1016.4	2081.6	3276.7	2773.1
82.5°	529.1	587.1	710.1	809.9	1118.5	823.8	619.6	1051.2	1246.2	1072.1
85°	301.7	341.1	429.3	580.1	714.7	503.6	355.1	466.4	580.1	475.7
87.5°	106.7	139.2	150.8	227.4	311.0	208.9	136.9	134.6	190.3	141.6
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°
6411.8	0°	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8	6411.8
6481.4	2.5°	6458.2	6446.6	6400.2	6337.5	6272.6	6209.9	6189.0	6144.9	6114.8	6098.5
6632.3	5°	6588.2	6551.0	6442.0	6302.7	6156.5	5998.7	5887.4	5785.2	5711.0	5641.4
6838.8	7.5°	6773.8	6708.8	6520.9	6277.2	6017.3	5755.1	5560.1	5411.6	5311.8	5246.9
7080.1	10°	6989.6	6889.8	6602.1	6237.8	5836.3	5460.4	5230.6	5103.0	5040.3	5005.5
7356.3	12.5°	7237.9	7096.4	6685.6	6147.3	5560.1	5130.8	4973.0	4935.9	4938.2	4940.5
7704.4	15°	7544.3	7347.0	6752.9	5950.0	5200.5	4877.9	4850.0	4910.4	4973.0	5003.2
8098.9	17.5°	7890.0	7611.6	6764.5	5625.1	4847.7	4715.4	4803.6	4933.6	5028.7	5070.5
8539.8	20°	8261.3	7880.7	6681.0	5165.6	4557.6	4583.2	4741.0	4908.1	5012.5	5065.9
9043.4	22.5°	8686.0	8168.5	6481.4	4683.0	4320.9	4439.3	4624.9	4787.4	4896.5	4949.8
9635.1	25°	9171.0	8491.1	6168.1	4276.9	4116.7	4276.9	4462.5	4597.1	4685.3	4734.0
10296.5	27.5°	9709.4	8827.5	5750.4	3954.3	3938.1	4109.8	4262.9	4367.4	4413.8	4450.9
10999.6	30°	10250.1	9133.9	5244.5	3710.6	3782.6	3945.0	4054.1	4100.5	4114.4	4121.4
11784.0	32.5°	10834.9	9398.4	4713.1	3508.7	3634.1	3784.9	3849.9	3870.8	3805.8	3761.7
12735.4	35°	11542.6	9681.5	4193.3	3348.6	3487.9	3617.8	3638.7	3620.1	3543.5	3453.0
13928.2	37.5°	12417.5	10034.3	3777.9	3234.9	3350.9	3436.8	3411.3	3406.6	3413.6	3306.8
15362.3	40°	13489.6	10493.7	3473.9	3146.7	3239.6	3258.1	3186.2	3225.6	3260.4	3098.0
16935.7	42.5°	14680.1	11048.4	3281.3	3086.4	3146.7	3102.6	2991.2	3035.3	3030.7	2817.2
18516.0	45°	15893.8	11651.7	3214.0	3042.3	3060.9	2972.7	2849.7	2861.3	2763.8	2571.2
20031.4	47.5°	17100.5	12299.2	3255.8	3005.2	2954.1	2854.3	2759.2	2708.1	2564.3	2420.4
21484.1	50°	18284.0	12979.1	3409.0	2930.9	2807.9	2749.9	2680.3	2589.8	2436.6	2313.6
22857.9	52.5°	19381.6	13663.7	3580.7	2807.9	2624.6	2659.4	2615.3	2510.9	2360.0	2234.7
24157.4	55°	20421.2	14348.2	3648.0	2638.5	2452.9	2580.5	2555.0	2362.4	2181.4	2079.3
25517.3	57.5°	21553.7	15172.1	3573.7	2422.7	2313.6	2490.0	2392.5	2179.0	2074.6	1998.0
27287.9	60°	23122.4	16464.6	3413.6	2155.8	2181.4	2355.4	2188.3	2100.1	1986.4	1900.6
29942.6	62.5°	25728.4	18875.7	3156.0	1891.3	2025.9	2155.8	2090.9	2002.7	1886.6	1803.1
34481.7	65°	29580.6	22226.7	2671.0	1684.8	1851.8	1960.9	1986.4	1898.2	1777.6	1689.4
38459.2	67.5°	32829.5	24329.1	2021.2	1513.0	1673.1	1803.1	1875.0	1789.2	1661.5	1575.7
39389.8	70°	32650.8	22802.2	1543.2	1343.6	1515.3	1647.6	1740.4	1673.1	1536.2	1455.0
35778.9	72.5°	29000.5	19075.3	1248.5	1171.9	1355.2	1485.2	1596.6	1545.5	1406.3	1327.4
26211.1	75°	21305.4	13540.7	997.9	997.9	1155.7	1315.8	1438.8	1406.3	1278.6	1223.0
11004.3	77.5°	8980.7	5680.8	782.0	828.5	960.7	1130.1	1283.3	1294.9	1183.5	1253.1
2910.0	80°	2387.9	1566.4	596.4	652.1	754.2	932.9	1116.2	1111.6	990.9	925.9
1081.4	82.5°	909.7	617.3	424.7	459.5	545.3	714.7	884.1	912.0	791.3	684.6
424.7	85°	350.4	264.5	262.2	276.2	317.9	473.4	668.3	691.5	596.4	505.9
118.4	87.5°	90.5	78.9	97.5	92.8	146.2	252.9	382.9	396.8	364.3	211.2
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°
6411.8
6117.1
5669.2
5260.8
5014.8
4945.2
5000.9
5079.8
5079.8
4963.8
4747.9
4464.8
4137.6
3775.6
3457.7
3313.8
3102.6
2814.9
2578.2
2420.4
2304.4
2237.1
2070.0
1991.1
1895.9
1803.1
1694.0
1578.0
1462.0
1327.4
1206.7
1137.1
860.9
684.6
522.1
301.7
0.0

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