

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: P851076

Luminaire Tested: **GLAN-SB8D-850-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851076
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-SB8D-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 70007 lumens
Efficiency: N/A
Efficacy: 119.7 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

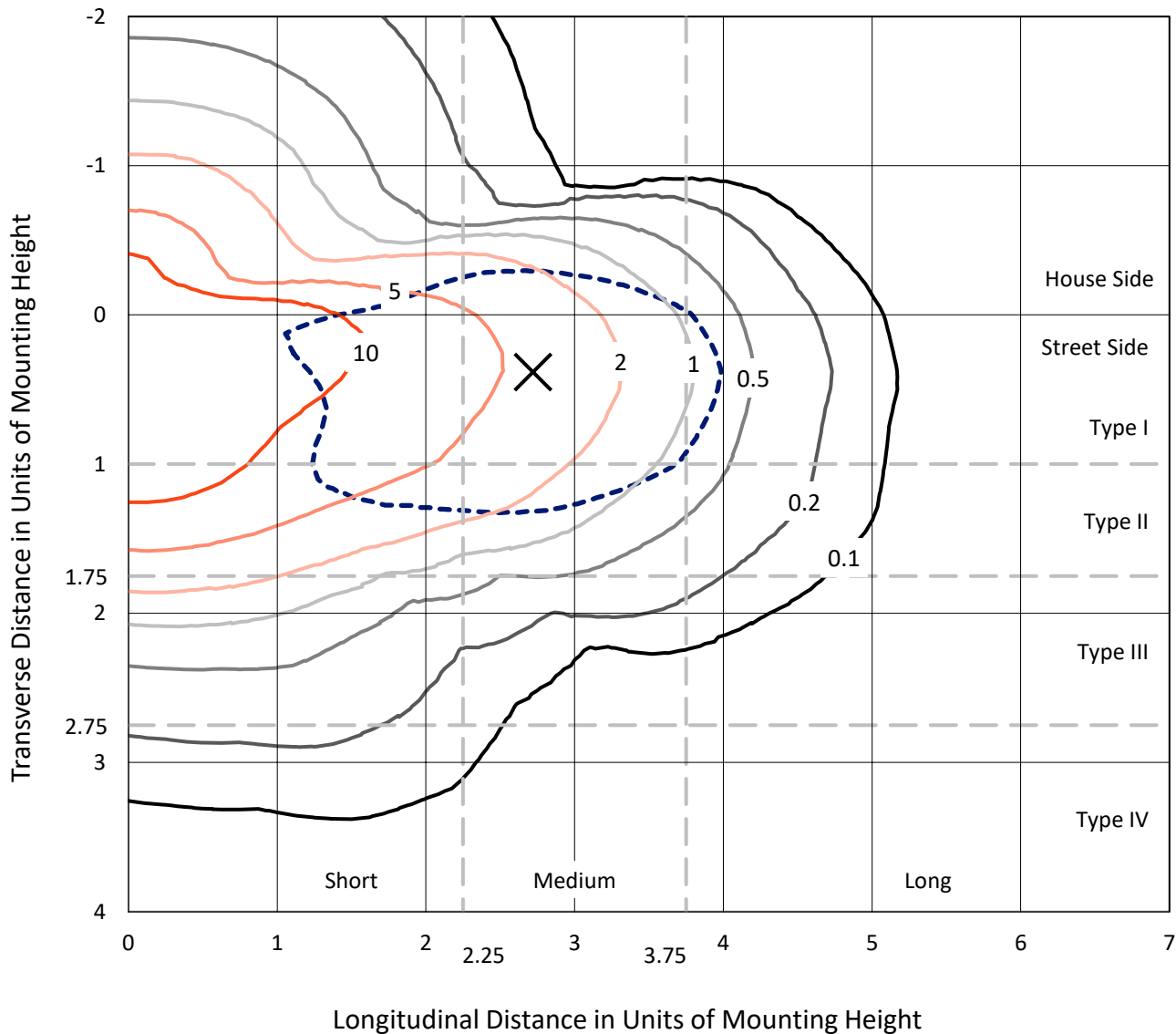
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

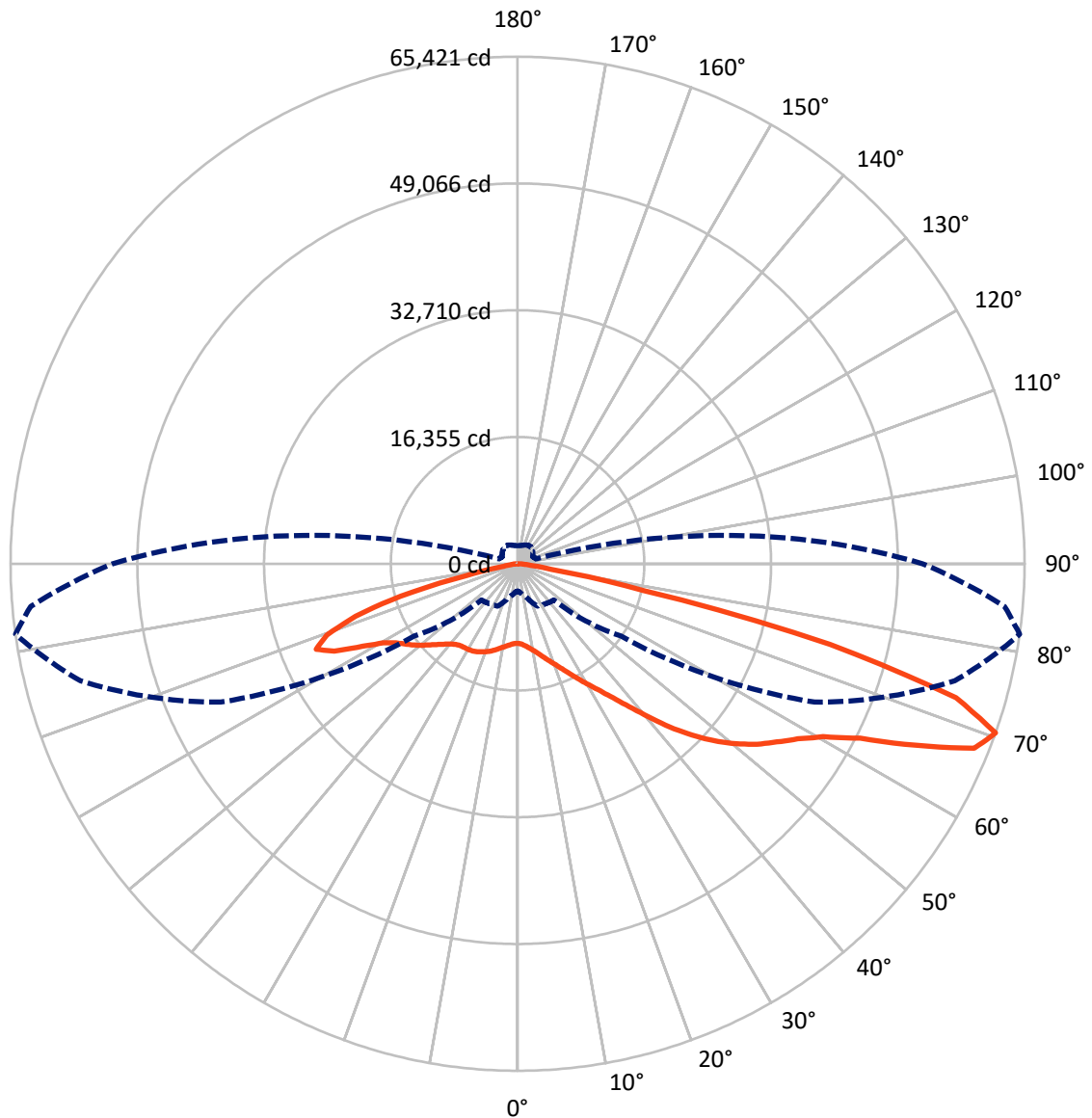
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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	17258.4	0.0	17258.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	52748.6	0.0	52748.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	70007.0	0.0	70007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.1	1.4
10°-20°	2784.3	4.0
20°-30°	4657.8	6.7
30°-40°	7276.7	10.4
40°-50°	11589.0	16.6
50°-60°	16127.4	23.0
60°-70°	16870.0	24.1
70°-80°	8817.2	12.6
80°-90°	915.6	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°	70007.0	100.0
0°-180°	70007.0	100.0

Coefficient of Utilization

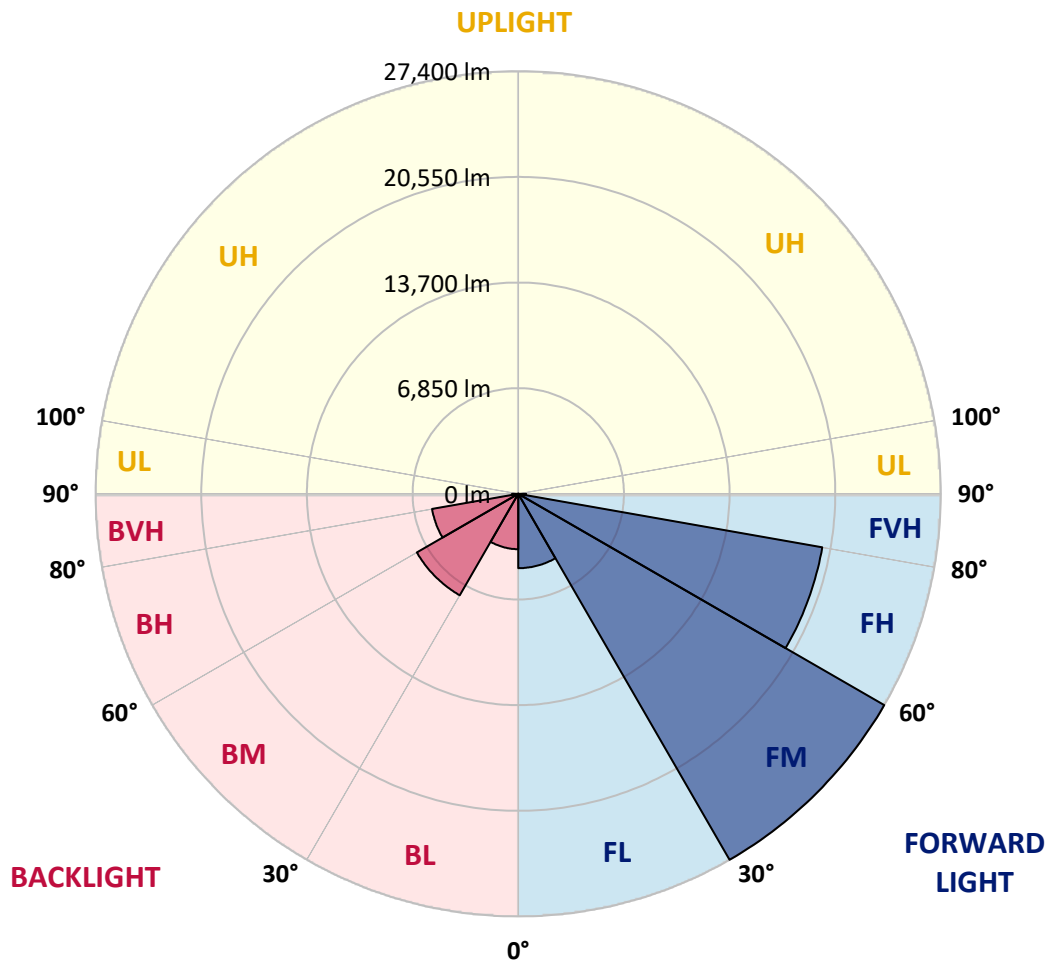


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4820.8	6.9			
FM (30°-60°)	27400.0	39.1			
FH (60°-80°)	20015.2	28.6			G5
FVH (80°-90°)	512.5	0.7			G4/750
BL (0°-30°)	3590.4	5.1	B4/5000		
BM (30°-60°)	7593.0	10.8	B4/8500		
BH (60°-80°)	5672.0	8.1	B5		G5
BVH (80°-90°)	403.0	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°	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9
2.5°	10509.1	10568.5	10549.9	10531.4	10531.4	10505.4	10501.6	10464.5	10434.8	10386.5
5°	10642.8	10706.0	10698.5	10713.4	10761.7	10772.8	10784.0	10761.7	10702.2	10642.8
7.5°	10523.9	10594.5	10616.8	10706.0	10854.5	10988.3	11088.6	11129.4	11073.7	10988.3
10°	10122.7	10200.8	10278.8	10490.5	10754.3	11070.0	11337.5	11497.2	11486.1	11404.3
12.5°	9309.2	9390.9	9558.1	9970.4	10453.4	11010.6	11508.3	11842.7	11957.8	11898.4
15°	8659.1	8729.7	8856.0	9279.5	9907.3	10754.3	11571.5	12221.6	12515.1	12481.6
17.5°	8640.5	8670.3	8748.3	8948.9	9431.8	10353.1	11504.6	12593.1	13154.0	13150.3
20°	8967.4	8978.6	9023.2	9064.0	9338.9	10048.4	11333.8	12901.4	13870.9	13870.9
22.5°	9420.6	9413.2	9457.8	9420.6	9554.4	10022.4	11226.0	13172.6	14669.6	14729.1
25°	10100.5	10063.3	10052.2	9966.7	9992.7	10263.9	11344.9	13480.9	15616.9	15739.5
27.5°	11006.9	10947.4	10906.6	10709.7	10642.8	10761.7	11708.9	13852.4	16671.9	16883.6
30°	12188.2	12080.4	12021.0	11679.2	11437.8	11456.3	12258.7	14346.4	17775.2	18116.9
32.5°	13800.4	13633.2	13473.5	12912.5	12470.5	12325.6	12968.3	15029.9	18971.3	19517.4
35°	15605.7	15472.0	15301.1	14435.6	13755.8	13421.5	13926.7	15984.6	20371.8	21237.3
37.5°	17344.2	17229.1	17310.8	16144.4	15267.7	14781.1	15182.3	17266.2	22099.1	23377.0
40°	19142.2	19053.0	19064.2	17949.8	16928.2	16382.1	16705.3	18874.7	24079.1	25921.6
42.5°	21096.2	21029.3	20806.4	19818.3	18670.4	18161.5	18458.7	20732.1	26204.0	28819.2
45°	23284.2	23243.3	23035.3	21902.3	20587.2	20015.2	20416.4	22782.7	28340.0	31545.8
47.5°	25175.0	25208.4	25182.4	24227.7	22864.4	22024.9	22504.1	24922.4	30327.4	34109.0
50°	26085.1	26259.7	26516.0	26218.8	25371.9	24517.5	24610.3	26987.8	32221.9	36512.4
52.5°	25609.6	25940.2	26638.6	27114.1	27441.0	27262.7	27013.8	29038.3	34005.0	38681.9
55°	23837.7	24302.0	25461.0	26608.9	28276.8	29573.3	29900.2	31311.8	35743.5	40591.3
57.5°	20609.5	21363.6	22403.8	24725.5	27533.9	30691.4	33265.7	34465.6	37586.0	42630.7
60°	15074.5	16084.9	17377.7	20832.4	24933.5	30093.3	36129.8	39309.7	40204.9	45271.9
62.5°	9647.3	10271.3	11460.1	14714.2	19428.2	27028.6	37006.5	45364.7	44644.1	49603.3
65°	6604.9	7006.1	8094.5	9922.1	12559.6	20119.2	34658.8	49904.2	51694.7	56468.2
67.5°	4799.5	5104.1	6032.8	7633.8	8183.6	11905.8	26894.9	49696.2	58548.4	63541.1
70°	3499.3	3714.8	4494.9	6032.8	6296.5	6623.4	16293.0	42244.3	58399.9	65420.8
72.5°	2592.9	2741.5	3265.3	4680.6	5096.7	4472.6	8064.8	30702.6	50182.8	59172.5
75°	1876.0	1987.4	2373.7	3581.0	4078.8	3406.4	4023.1	17942.3	35004.3	41624.0
77.5°	1433.9	1519.3	1771.9	2622.6	3265.3	2555.8	2496.3	8254.2	16597.6	16679.3
80°	1151.6	1207.3	1344.7	1846.2	2503.8	1913.1	1627.1	3332.1	5245.3	4439.1
82.5°	847.0	939.8	1136.7	1296.5	1790.5	1318.7	991.8	1682.8	1994.8	1716.2
85°	482.9	546.1	687.2	928.7	1144.1	806.1	568.4	746.7	928.7	761.5
87.5°	170.9	222.9	241.5	364.0	497.8	334.3	219.2	215.5	304.6	226.6
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°
10263.9	0°	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9	10263.9
10375.3	2.5°	10338.2	10319.6	10245.3	10145.0	10041.0	9940.7	9907.3	9836.7	9788.4	9762.4
10616.8	5°	10546.2	10486.8	10312.2	10089.3	9855.3	9602.7	9424.4	9260.9	9142.0	9030.6
10947.4	7.5°	10843.4	10739.4	10438.5	10048.4	9632.4	9212.6	8900.6	8662.8	8503.1	8399.1
11333.8	10°	11188.9	11029.1	10568.5	9985.3	9342.6	8740.8	8373.1	8168.8	8068.5	8012.8
11775.8	12.5°	11586.4	11359.8	10702.2	9840.4	8900.6	8213.4	7960.7	7901.3	7905.0	7908.7
12333.0	15°	12076.7	11761.0	10810.0	9524.7	8324.8	7808.4	7763.9	7860.4	7960.7	8009.0
12964.5	17.5°	12630.2	12184.4	10828.5	9004.6	7760.1	7548.4	7689.6	7897.6	8049.9	8116.8
13670.3	20°	13224.6	12615.3	10694.8	8269.1	7295.8	7336.7	7589.3	7856.7	8023.9	8109.3
14476.4	22.5°	13904.4	13076.0	10375.3	7496.4	6916.9	7106.3	7403.5	7663.6	7838.2	7923.6
15423.7	25°	14680.8	13592.3	9873.9	6846.3	6590.0	6846.3	7143.5	7359.0	7500.1	7578.1
16482.4	27.5°	15542.6	14131.0	9205.2	6330.0	6304.0	6578.9	6824.0	6991.2	7065.5	7124.9
17608.0	30°	16408.1	14621.3	8395.4	5939.9	6055.1	6315.1	6489.7	6564.0	6586.3	6597.4
18863.6	32.5°	17344.2	15044.8	7544.7	5616.7	5817.3	6058.8	6162.8	6196.2	6092.2	6021.6
20386.6	35°	18477.3	15498.0	6712.6	5360.4	5583.3	5791.3	5824.8	5795.0	5672.4	5527.6
22296.0	37.5°	19877.7	16062.7	6047.6	5178.4	5364.1	5501.6	5460.7	5453.3	5464.4	5293.5
24591.8	40°	21593.9	16798.2	5561.0	5037.2	5185.8	5215.5	5100.4	5163.5	5219.2	4959.2
27110.4	42.5°	23499.6	17686.0	5252.7	4940.6	5037.2	4966.6	4788.3	4858.9	4851.5	4509.7
29640.1	45°	25442.4	18651.8	5145.0	4870.1	4899.8	4758.6	4561.7	4580.3	4424.3	4116.0
32065.9	47.5°	27374.1	19688.3	5211.8	4810.6	4728.9	4569.2	4416.9	4335.1	4104.8	3874.5
34391.3	50°	29268.7	20776.7	5457.0	4691.8	4494.9	4402.0	4290.6	4145.7	3900.5	3703.6
36590.5	52.5°	31025.7	21872.5	5731.9	4494.9	4201.4	4257.1	4186.5	4019.4	3777.9	3577.3
38670.7	55°	32690.0	22968.4	5839.6	4223.7	3926.5	4130.8	4090.0	3781.6	3491.9	3328.4
40847.6	57.5°	34502.8	24287.1	5720.7	3878.2	3703.6	3985.9	3829.9	3488.2	3321.0	3198.4
43681.9	60°	37013.9	26356.3	5464.4	3451.0	3491.9	3770.5	3503.0	3361.9	3179.8	3042.4
47931.6	62.5°	41185.6	30215.9	5052.1	3027.5	3243.0	3451.0	3347.0	3205.8	3020.1	2886.4
55197.7	65°	47352.1	35580.0	4275.7	2696.9	2964.4	3139.0	3179.8	3038.7	2845.5	2704.4
61564.8	67.5°	52552.8	38945.6	3235.6	2422.0	2678.3	2886.4	3001.5	2864.1	2659.8	2522.3
63054.5	70°	52266.8	36501.3	2470.3	2150.9	2425.7	2637.5	2786.1	2678.3	2459.2	2329.2
57274.3	72.5°	46423.4	30535.4	1998.5	1876.0	2169.4	2377.5	2555.8	2474.0	2251.1	2124.8
41958.3	75°	34105.3	21675.7	1597.3	1597.3	1850.0	2106.3	2303.2	2251.1	2046.8	1957.7
17615.4	77.5°	14376.1	9093.7	1251.9	1326.2	1537.9	1809.1	2054.3	2072.8	1894.5	2006.0
4658.3	80°	3822.5	2507.5	954.7	1043.8	1207.3	1493.3	1786.8	1779.4	1586.2	1482.2
1731.1	82.5°	1456.2	988.1	679.8	735.5	873.0	1144.1	1415.3	1459.9	1266.7	1095.9
679.8	85°	560.9	423.5	419.8	442.1	508.9	757.8	1069.9	1107.0	954.7	809.8
189.5	87.5°	144.9	126.3	156.0	148.6	234.0	404.9	612.9	635.2	583.2	338.0
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°
10263.9
9792.1
9075.2
8421.4
8027.6
7916.2
8005.3
8131.6
8131.6
7945.9
7600.4
7147.2
6623.4
6043.9
5535.0
5304.7
4966.6
4506.0
4127.1
3874.5
3688.8
3581.0
3313.6
3187.3
3035.0
2886.4
2711.8
2526.0
2340.3
2124.8
1931.7
1820.2
1378.2
1095.9
835.8
482.9
0.0

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