

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: P850186

Luminaire Tested: **GLAN-SB7C-827-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850186
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-SB7C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42076 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

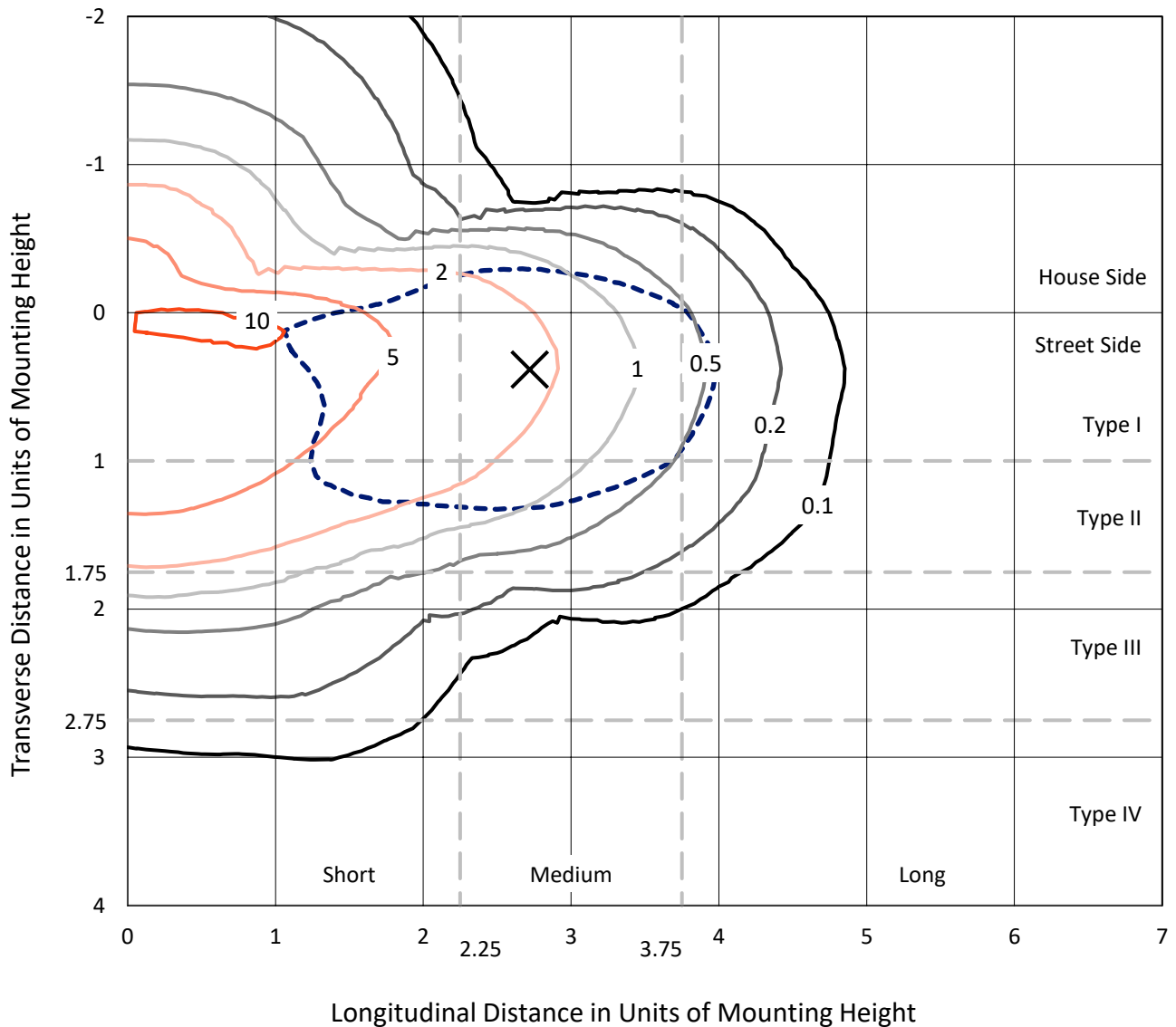
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

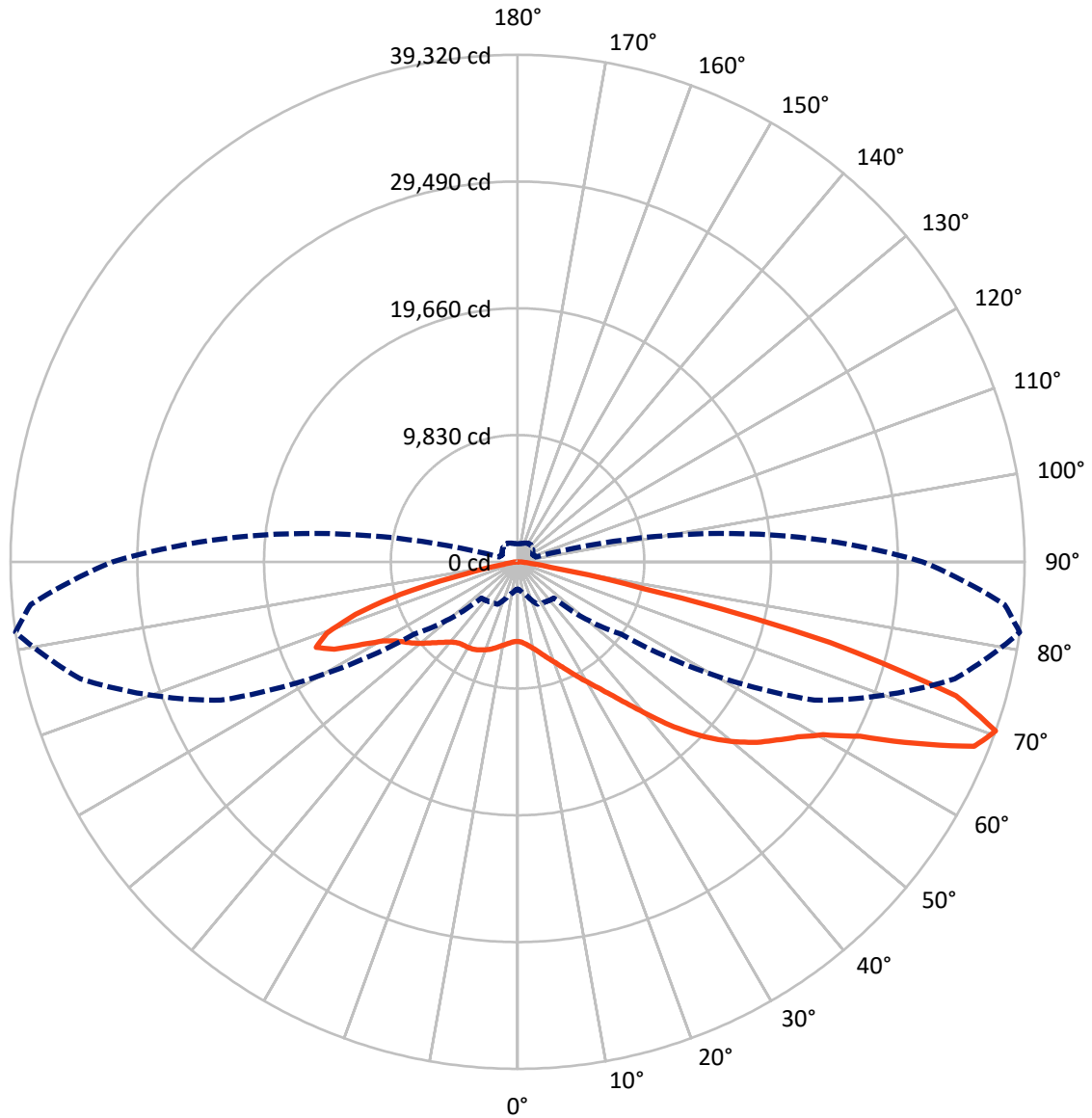
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	10372.8	0.0	10372.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31703.2	0.0	31703.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	42076.0	0.0	42076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.5	1.4
10°-20°	1673.4	4.0
20°-30°	2799.5	6.7
30°-40°	4373.5	10.4
40°-50°	6965.3	16.6
50°-60°	9693.0	23.0
60°-70°	10139.3	24.1
70°-80°	5299.4	12.6
80°-90°	550.3	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°	42076.0	100.0
0°-180°	42076.0	100.0

Coefficient of Utilization

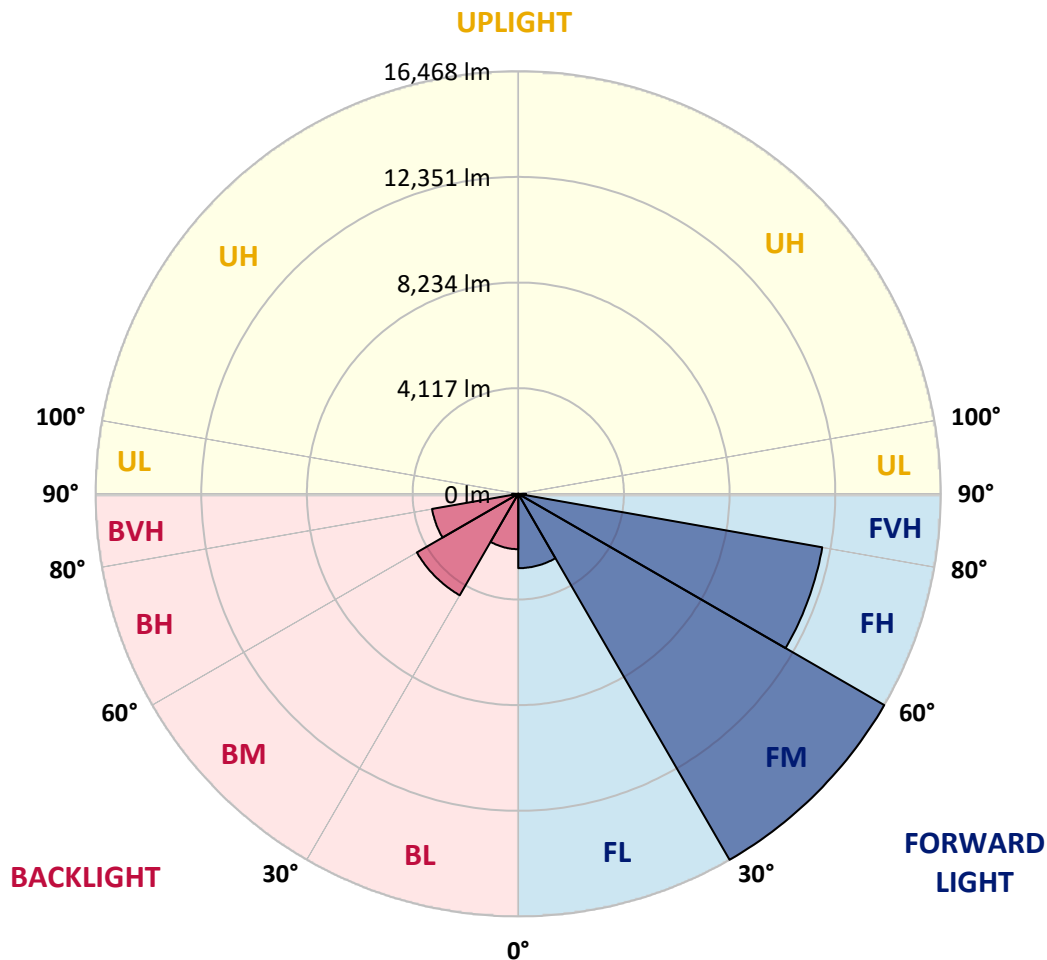


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2897.4	6.9			
FM (30°-60°)	16468.1	39.1			
FH (60°-80°)	12029.7	28.6			G5
FVH (80°-90°)	308.0	0.7			G3/500
BL (0°-30°)	2157.9	5.1	B3/2500		
BM (30°-60°)	4563.6	10.8	B3/5000		
BH (60°-80°)	3409.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	242.2	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°	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9
2.5°	6316.2	6351.9	6340.8	6329.6	6329.6	6314.0	6311.8	6289.4	6271.6	6242.5
5°	6396.6	6434.6	6430.1	6439.0	6468.0	6474.7	6481.4	6468.0	6432.3	6396.6
7.5°	6325.2	6367.6	6381.0	6434.6	6523.9	6604.2	6664.5	6689.1	6655.6	6604.2
10°	6084.0	6130.9	6177.8	6305.1	6463.6	6653.4	6814.1	6910.1	6903.4	6854.3
12.5°	5595.1	5644.2	5744.7	5992.5	6282.7	6617.6	6916.8	7117.8	7187.0	7151.2
15°	5204.4	5246.8	5322.7	5577.2	5954.5	6463.6	6954.8	7345.5	7521.9	7501.8
17.5°	5193.2	5211.1	5257.9	5378.5	5668.7	6222.5	6914.6	7568.8	7905.9	7903.7
20°	5389.7	5396.4	5423.2	5447.7	5612.9	6039.4	6811.9	7754.1	8336.8	8336.8
22.5°	5662.1	5657.6	5684.4	5662.1	5742.4	6023.7	6747.1	7917.0	8816.8	8852.5
25°	6070.6	6048.3	6041.6	5990.3	6005.9	6168.9	6818.6	8102.4	9386.1	9459.8
27.5°	6615.4	6579.7	6555.1	6436.8	6396.6	6468.0	7037.4	8325.6	10020.2	10147.5
30°	7325.4	7260.6	7224.9	7019.5	6874.4	6885.6	7367.8	8622.6	10683.3	10888.7
32.5°	8294.4	8193.9	8097.9	7760.8	7495.1	7408.0	7794.3	9033.4	11402.2	11730.4
35°	9379.4	9299.1	9196.4	8676.2	8267.6	8066.6	8370.3	9607.2	12244.0	12764.2
37.5°	10424.3	10355.1	10404.2	9703.2	9176.3	8883.8	9124.9	10377.5	13282.2	14050.2
40°	11504.9	11451.4	11458.1	10788.3	10174.3	9846.1	10040.3	11344.2	14472.2	15579.6
42.5°	12679.3	12639.1	12505.2	11911.3	11221.4	10915.5	11094.1	12460.5	15749.3	17321.1
45°	13994.4	13969.8	13844.8	13163.8	12373.5	12029.6	12270.8	13693.0	17033.0	18959.8
47.5°	15130.8	15150.9	15135.3	14561.5	13742.1	13237.5	13525.5	14979.0	18227.5	20500.4
50°	15677.8	15782.7	15936.8	15758.2	15249.1	14735.6	14791.4	16220.3	19366.2	21944.9
52.5°	15392.0	15590.7	16010.5	16296.3	16492.7	16385.6	16236.0	17452.8	20437.9	23248.8
55°	14327.0	14606.1	15302.7	15992.6	16995.1	17774.3	17970.8	18819.2	21482.8	24396.4
57.5°	12386.9	12840.1	13465.2	14860.7	16548.6	18446.3	19993.6	20714.7	22590.2	25622.1
60°	9060.2	9667.5	10444.4	12520.8	14985.7	18086.9	21715.0	23626.1	24164.2	27209.6
62.5°	5798.2	6173.3	6887.8	8843.6	11676.9	16244.9	22241.9	27265.4	26832.2	29812.8
65°	3969.7	4210.8	4865.0	5963.5	7548.7	12092.1	20830.8	29993.7	31069.8	33938.8
67.5°	2884.6	3067.7	3625.9	4588.1	4918.6	7155.7	16164.5	29868.7	35189.1	38189.8
70°	2103.2	2232.7	2701.5	3625.9	3784.4	3980.9	9792.5	25389.9	35099.8	39319.6
72.5°	1558.4	1647.7	1962.5	2813.2	3063.2	2688.1	4847.1	18453.0	30161.1	35564.2
75°	1127.5	1194.5	1426.7	2152.3	2451.5	2047.4	2418.0	10783.8	21038.5	25017.1
77.5°	861.8	913.2	1065.0	1576.3	1962.5	1536.1	1500.4	4961.0	9975.6	10024.7
80°	692.1	725.6	808.2	1109.6	1504.8	1149.8	977.9	2002.7	3152.5	2668.0
82.5°	509.0	564.9	683.2	779.2	1076.1	792.6	596.1	1011.4	1198.9	1031.5
85°	290.2	328.2	413.0	558.2	687.7	484.5	341.6	448.8	558.2	457.7
87.5°	102.7	134.0	145.1	218.8	299.2	200.9	131.7	129.5	183.1	136.2
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°
6168.9	0°	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9	6168.9
6235.8	2.5°	6213.5	6202.4	6157.7	6097.4	6034.9	5974.6	5954.5	5912.1	5883.1	5867.5
6381.0	5°	6338.6	6302.8	6197.9	6063.9	5923.3	5771.5	5664.3	5566.0	5494.6	5427.6
6579.7	7.5°	6517.2	6454.6	6273.8	6039.4	5789.3	5537.0	5349.5	5206.6	5110.6	5048.1
6811.9	10°	6724.8	6628.8	6351.9	6001.4	5615.2	5253.5	5032.4	4909.6	4849.4	4815.9
7077.6	12.5°	6963.7	6827.5	6432.3	5914.3	5349.5	4936.4	4784.6	4748.9	4751.1	4753.4
7412.5	15°	7258.4	7068.6	6497.1	5724.6	5003.4	4693.1	4666.3	4724.3	4784.6	4813.6
7792.0	17.5°	7591.1	7323.2	6508.2	5412.0	4664.0	4536.8	4621.6	4746.7	4838.2	4878.4
8216.2	20°	7948.3	7582.1	6427.9	4969.9	4385.0	4409.5	4561.3	4722.1	4822.6	4873.9
8700.7	22.5°	8356.9	7859.0	6235.8	4505.5	4157.2	4271.1	4449.7	4606.0	4710.9	4762.3
9270.0	25°	8823.5	8169.3	5934.4	4114.8	3960.8	4114.8	4293.4	4422.9	4507.8	4554.6
9906.4	27.5°	9341.5	8493.1	5532.6	3804.5	3788.8	3954.1	4101.4	4201.9	4246.5	4282.3
10582.9	30°	9861.7	8787.8	5045.8	3570.0	3639.3	3795.5	3900.5	3945.1	3958.5	3965.2
11337.5	32.5°	10424.3	9042.3	4534.6	3375.8	3496.4	3641.5	3704.0	3724.1	3661.6	3619.2
12252.9	35°	11105.3	9314.7	4034.4	3221.7	3355.7	3480.7	3500.8	3483.0	3409.3	3322.2
13400.5	37.5°	11947.0	9654.1	3634.8	3112.3	3224.0	3306.6	3282.0	3277.6	3284.3	3181.6
14780.3	40°	12978.5	10096.1	3342.3	3027.5	3116.8	3134.7	3065.5	3103.4	3136.9	2980.6
16294.0	42.5°	14123.9	10629.7	3157.0	2969.5	3027.5	2985.1	2877.9	2920.3	2915.9	2710.5
17814.5	45°	15291.6	11210.2	3092.2	2927.0	2944.9	2860.1	2741.7	2752.9	2659.1	2473.8
19272.4	47.5°	16452.5	11833.2	3132.4	2891.3	2842.2	2746.2	2654.6	2605.5	2467.1	2328.7
20670.1	50°	17591.2	12487.3	3279.8	2819.9	2701.5	2645.7	2578.7	2491.7	2344.3	2226.0
21991.8	52.5°	18647.3	13146.0	3445.0	2701.5	2525.1	2558.6	2516.2	2415.7	2270.6	2150.1
23242.1	55°	19647.5	13804.6	3509.8	2538.5	2359.9	2482.7	2458.2	2272.9	2098.7	2000.5
24550.4	57.5°	20737.0	14597.2	3438.3	2330.9	2226.0	2395.7	2301.9	2096.5	1996.0	1922.3
26254.0	60°	22246.3	15840.8	3284.3	2074.2	2098.7	2266.2	2105.4	2020.6	1911.2	1828.6
28808.1	62.5°	24753.6	18160.5	3036.4	1819.6	1949.1	2074.2	2011.6	1926.8	1815.2	1734.8
33175.2	65°	28459.8	21384.5	2569.8	1620.9	1781.7	1886.6	1911.2	1826.3	1710.2	1625.4
37002.0	67.5°	31585.6	23407.3	1944.7	1455.7	1609.8	1734.8	1804.0	1721.4	1598.6	1516.0
37897.3	70°	31413.7	21938.2	1484.7	1292.7	1457.9	1585.2	1674.5	1609.8	1478.0	1399.9
34423.3	72.5°	27901.7	18352.5	1201.2	1127.5	1303.9	1428.9	1536.1	1487.0	1353.0	1277.1
25218.0	75°	20498.1	13027.6	960.0	960.0	1111.9	1265.9	1384.3	1353.0	1230.2	1176.6
10587.3	77.5°	8640.4	5465.6	752.4	797.1	924.3	1087.3	1234.7	1245.8	1138.7	1205.6
2799.8	80°	2297.4	1507.1	573.8	627.4	725.6	897.5	1073.9	1069.4	953.4	890.8
1040.4	82.5°	875.2	593.9	408.6	442.1	524.7	687.7	850.6	877.4	761.3	658.6
408.6	85°	337.1	254.5	252.3	265.7	305.9	455.5	643.0	665.3	573.8	486.7
113.9	87.5°	87.1	75.9	93.8	89.3	140.7	243.4	368.4	381.8	350.5	203.2
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°
6168.9
5885.3
5454.4
5061.5
4824.8
4757.8
4811.4
4887.3
4887.3
4775.7
4568.0
4295.7
3980.9
3632.6
3326.7
3188.3
2985.1
2708.2
2480.5
2328.7
2217.0
2152.3
1991.5
1915.6
1824.1
1734.8
1629.8
1518.2
1406.6
1277.1
1161.0
1094.0
828.3
658.6
502.4
290.2
0.0

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