

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: P850357

Luminaire Tested: **GLAN-SB7D-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850357
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-SB7D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 45253 lumens
Efficiency: N/A
Efficacy: 88.2 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

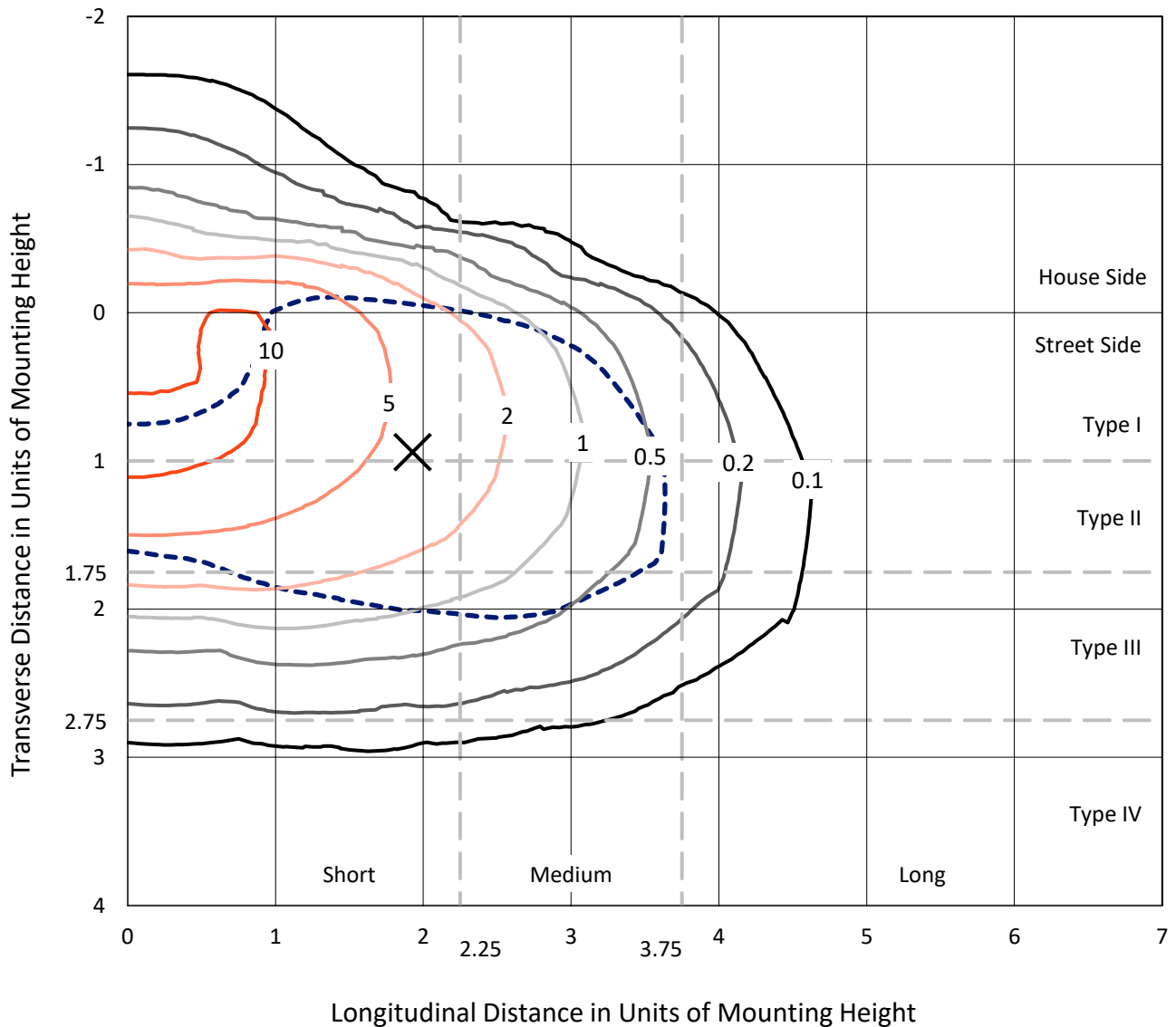
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

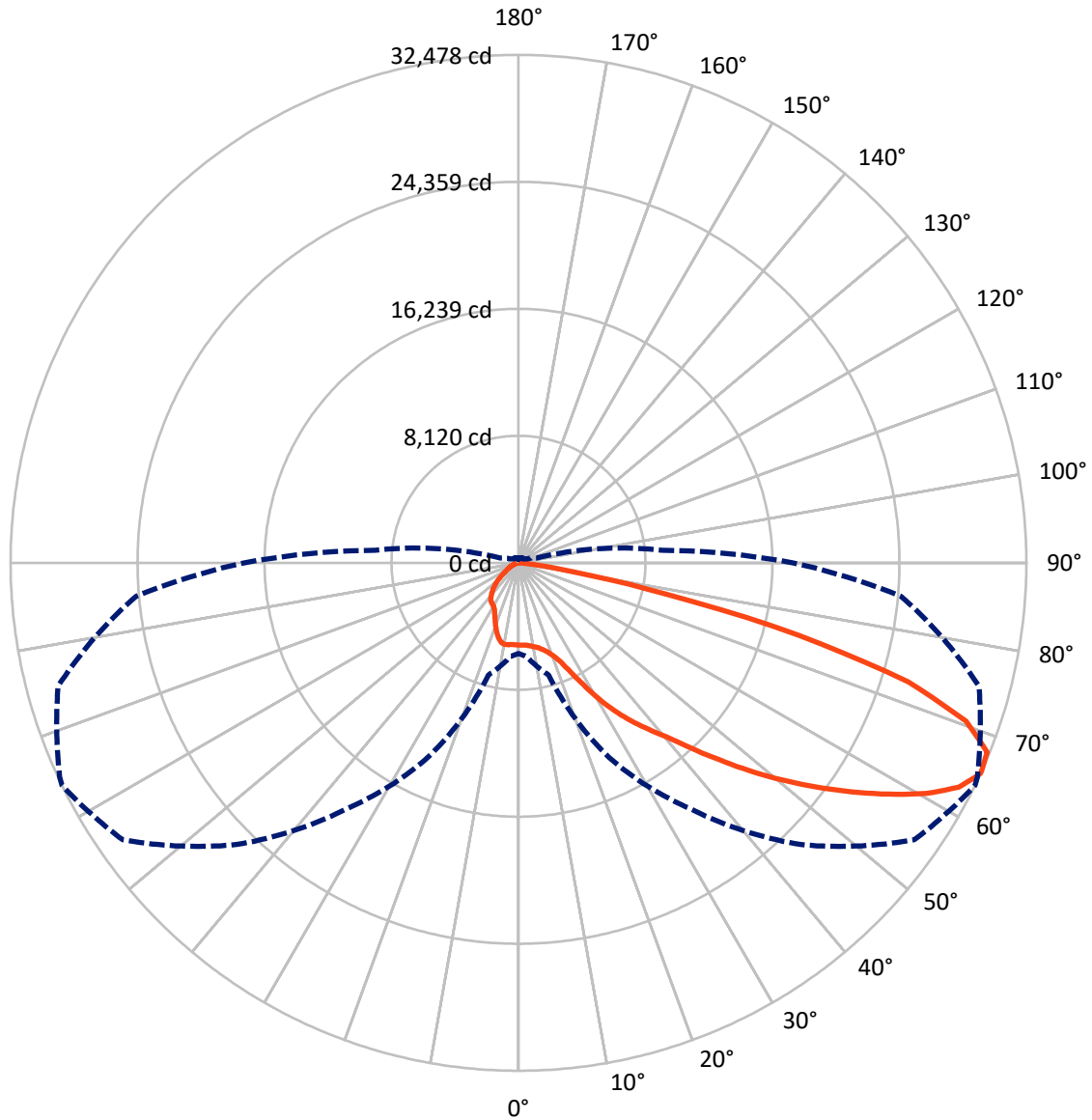
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	6051.7	0.0	6051.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	39201.3	0.0	39201.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	45253.0	0.0	45253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.6	1.1
10°-20°	1317.1	2.9
20°-30°	2495.8	5.5
30°-40°	5050.3	11.2
40°-50°	8603.2	19.0
50°-60°	11699.6	25.9
60°-70°	10986.6	24.3
70°-80°	4401.7	9.7
80°-90°	213.2	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°	45253.0	100.0
0°-180°	45253.0	100.0

Coefficient of Utilization



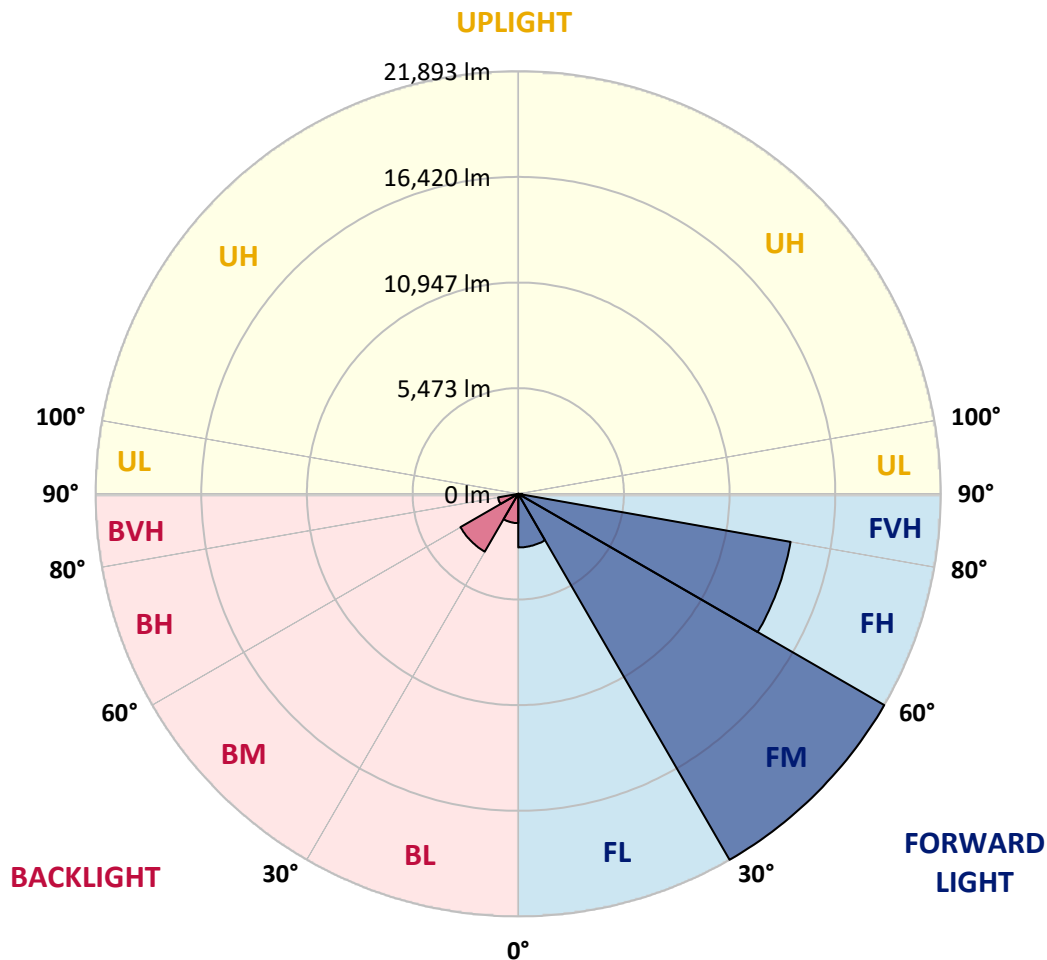
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.1	6.1			
FM (30°-60°)	21893.4	48.4			
FH (60°-80°)	14326.1	31.7			G5
FVH (80°-90°)	202.8	0.4			G2/225
BL (0°-30°)	1519.4	3.4	B3/2500		
BM (30°-60°)	3459.7	7.6	B3/5000		
BH (60°-80°)	1062.2	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.4	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°	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4
2.5°	5245.2	5281.6	5272.5	5263.4	5260.4	5266.4	5269.5	5266.4	5266.4	5266.4
5°	5145.1	5175.4	5175.4	5196.7	5227.0	5263.4	5290.7	5296.8	5302.8	5311.9
7.5°	4954.0	4978.2	4996.4	5066.2	5142.0	5239.1	5321.0	5363.5	5369.6	5402.9
10°	4823.5	4853.9	4884.2	4957.0	5066.2	5211.8	5351.4	5454.5	5469.7	5548.6
12.5°	4817.4	4847.8	4887.2	4966.1	5093.5	5248.2	5418.1	5566.8	5594.1	5709.3
15°	4881.2	4917.6	4954.0	5051.0	5187.6	5375.6	5557.7	5742.7	5770.0	5933.8
17.5°	5011.6	5060.1	5087.4	5184.5	5330.1	5539.5	5779.1	5991.5	6015.7	6206.9
20°	5269.5	5327.1	5336.2	5415.1	5557.7	5782.1	6067.3	6331.2	6361.6	6580.0
22.5°	5803.4	5885.3	5812.5	5851.9	5979.3	6203.8	6513.3	6847.0	6889.4	7138.2
25°	6743.8	6859.1	6671.0	6604.3	6658.9	6892.5	7280.8	7702.5	7751.0	7951.2
27.5°	8591.3	8442.7	8157.5	7878.4	7714.6	7848.1	8284.9	8806.7	8867.4	9061.5
30°	10620.8	10490.4	10105.1	9486.2	9097.9	9076.7	9480.2	10062.6	10132.4	10317.5
32.5°	12653.4	12529.0	12110.4	11348.9	10675.4	10341.7	10620.8	11267.0	11303.4	11421.7
35°	14652.6	14525.1	14106.5	13326.9	12498.7	11740.3	11685.6	12413.7	12425.9	12550.2
37.5°	16663.9	16557.7	16111.7	15347.3	14531.2	13484.6	12978.0	13499.8	13514.9	13636.3
40°	18098.8	18144.3	17837.9	17246.3	16545.6	15401.9	14428.1	14655.6	14564.6	14767.8
42.5°	19330.5	19421.5	19154.5	18857.2	18450.7	17443.5	16224.0	16184.6	16038.9	16148.2
45°	20395.3	20471.1	20231.5	20161.7	20152.6	19445.7	18186.8	17950.1	17746.9	17725.7
47.5°	20786.6	20932.2	21035.4	21269.0	21724.0	21426.7	20216.3	19849.2	19621.7	19454.8
50°	20935.3	21090.0	21441.9	22121.4	23198.4	23325.8	22236.7	21824.1	21545.0	21241.7
52.5°	20735.0	21011.1	21484.4	22628.0	24190.4	24848.7	24175.2	23814.2	23495.7	23001.2
55°	19554.9	19831.0	20798.7	22622.0	24684.9	25916.5	26007.5	25846.8	25488.8	24709.1
57.5°	17067.4	17476.9	19008.9	21851.4	24675.8	26835.7	27803.5	27918.7	27518.3	26401.9
60°	13621.1	14176.3	16045.0	20143.5	23914.3	27333.2	29377.9	29954.3	29529.6	28070.4
62.5°	9504.4	10147.6	11916.2	17467.8	22173.0	26975.3	30527.7	31592.5	31270.9	29563.0
65°	5797.3	6003.6	7429.4	13745.5	19212.1	25476.6	30882.6	32478.3	32372.1	30476.1
67.5°	3861.8	4034.8	4444.3	9425.6	14913.5	22482.4	30033.2	32323.6	32353.9	30327.5
70°	2326.8	2475.5	2742.4	5481.8	9665.2	17795.4	27403.0	30351.7	30527.7	28340.4
72.5°	958.6	1058.7	1301.4	2484.6	5005.5	11294.3	21821.1	26059.1	26468.7	23829.4
75°	543.0	594.6	764.5	1246.8	2172.1	5263.4	13217.6	18499.2	19102.9	16424.2
77.5°	361.0	385.3	494.5	807.0	1222.6	1795.9	5648.7	9637.9	10790.7	8970.5
80°	242.7	263.9	339.8	540.0	794.8	770.5	1799.0	3570.6	4392.7	3082.2
82.5°	163.8	166.9	242.7	354.9	503.6	373.1	530.9	1110.3	1395.5	891.9
85°	94.0	91.0	179.0	206.3	224.5	154.7	160.8	333.7	436.8	376.2
87.5°	12.1	18.2	69.8	54.6	30.3	33.4	33.4	57.6	84.9	91.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5263.4	0°	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4	5263.4
5269.5	2.5°	5269.5	5266.4	5257.3	5248.2	5227.0	5214.9	5220.9	5214.9	5211.8	5214.9
5308.9	5°	5308.9	5299.8	5275.5	5245.2	5202.7	5151.1	5117.8	5069.2	5023.7	4996.4
5415.1	7.5°	5415.1	5406.0	5372.6	5287.7	5151.1	4935.8	4738.6	4565.7	4435.2	4359.4
5585.0	10°	5585.0	5569.8	5518.2	5330.1	4972.2	4501.9	4110.6	3786.0	3573.6	3473.5
5785.2	12.5°	5785.2	5767.0	5676.0	5290.7	4632.4	3898.2	3358.3	2997.3	2800.1	2712.1
6015.7	15°	6021.8	5997.5	5818.6	5102.6	4137.9	3230.8	2736.4	2466.4	2338.9	2260.1
6310.0	17.5°	6316.1	6273.6	5924.7	4820.5	3601.0	2721.2	2354.1	2150.9	2038.6	1962.8
6695.3	20°	6698.3	6628.5	6009.7	4483.7	3106.5	2399.6	2096.3	1926.4	1841.4	1774.7
7241.3	22.5°	7232.2	7132.1	6112.8	4119.7	2757.6	2178.2	1905.1	1780.8	1711.0	1635.1
8002.8	25°	7893.6	7775.3	6240.2	3783.0	2517.9	1987.0	1765.6	1662.4	1580.5	1492.6
9000.9	27.5°	8818.8	8606.5	6391.9	3506.9	2311.6	1823.2	1638.2	1522.9	1428.9	1356.0
10132.4	30°	9850.3	9501.4	6525.4	3340.1	2123.6	1671.5	1471.3	1356.0	1268.1	1216.5
11148.7	32.5°	10827.1	10353.9	6613.4	3267.2	1953.7	1498.6	1289.3	1164.9	1098.2	1083.0
12143.7	35°	11749.4	11124.4	6604.3	3197.5	1802.0	1325.7	1110.3	982.9	931.3	940.4
13214.6	37.5°	12811.1	11946.5	6540.6	3088.3	1677.6	1168.0	955.6	843.4	797.9	800.9
14516.0	40°	14045.8	12896.1	6501.1	2882.0	1541.1	1022.3	828.2	737.2	703.8	691.7
15887.3	42.5°	15362.4	13815.3	6507.2	2648.4	1371.2	891.9	740.2	664.4	634.0	624.9
17413.2	45°	16685.1	14692.0	6516.3	2405.7	1192.2	791.8	676.5	612.8	594.6	582.5
18960.4	47.5°	17928.9	15438.3	6346.4	2144.8	1016.3	715.9	624.9	582.5	567.3	552.1
20513.6	50°	19087.8	15935.8	5936.9	1841.4	876.7	655.3	585.5	555.2	540.0	524.8
21921.2	52.5°	19988.8	16014.7	5260.4	1529.0	779.6	609.8	561.2	533.9	515.7	500.6
23058.8	55°	20389.2	15520.2	4298.7	1237.7	703.8	570.3	537.0	509.7	488.4	473.3
23953.8	57.5°	20286.1	14479.6	3352.2	995.0	631.0	530.9	506.6	488.4	464.1	439.9
24678.8	60°	19779.4	13087.2	2527.0	828.2	564.3	488.4	473.3	458.1	424.7	388.3
24957.9	62.5°	18902.7	11336.8	1802.0	685.6	491.5	439.9	433.8	421.7	373.1	306.4
24545.3	65°	17561.8	9210.2	1213.5	570.3	421.7	385.3	388.3	367.1	303.4	227.5
23034.6	67.5°	15602.1	6734.7	776.6	467.2	351.9	321.6	324.6	312.5	257.9	194.2
20170.8	70°	13105.4	4459.5	506.6	354.9	282.1	248.8	267.0	270.0	218.4	157.8
15480.7	72.5°	9607.6	2633.2	354.9	263.9	206.3	172.9	218.4	224.5	176.0	118.3
9313.3	75°	5475.7	1249.9	267.0	191.1	127.4	121.3	169.9	169.9	121.3	78.9
4031.7	77.5°	2299.5	521.8	188.1	124.4	72.8	69.8	115.3	106.2	60.7	36.4
982.9	80°	664.4	233.6	100.1	60.7	30.3	27.3	45.5	33.4	15.2	6.1
373.1	82.5°	260.9	103.1	39.4	24.3	12.1	12.1	6.1	0.0	0.0	0.0
212.4	85°	154.7	42.5	18.2	9.1	3.0	0.0	0.0	0.0	0.0	0.0
45.5	87.5°	39.4	9.1	6.1	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°
5263.4
5227.0
5002.5
4362.4
3464.4
2703.0
2263.1
1956.7
1762.6
1623.0
1483.5
1340.9
1207.4
1092.1
940.4
813.0
688.6
621.9
582.5
552.1
524.8
497.5
470.2
436.8
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