

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: P848316

Luminaire Tested: **GLAN-SB4D-827-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848316
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-SB4D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32219 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

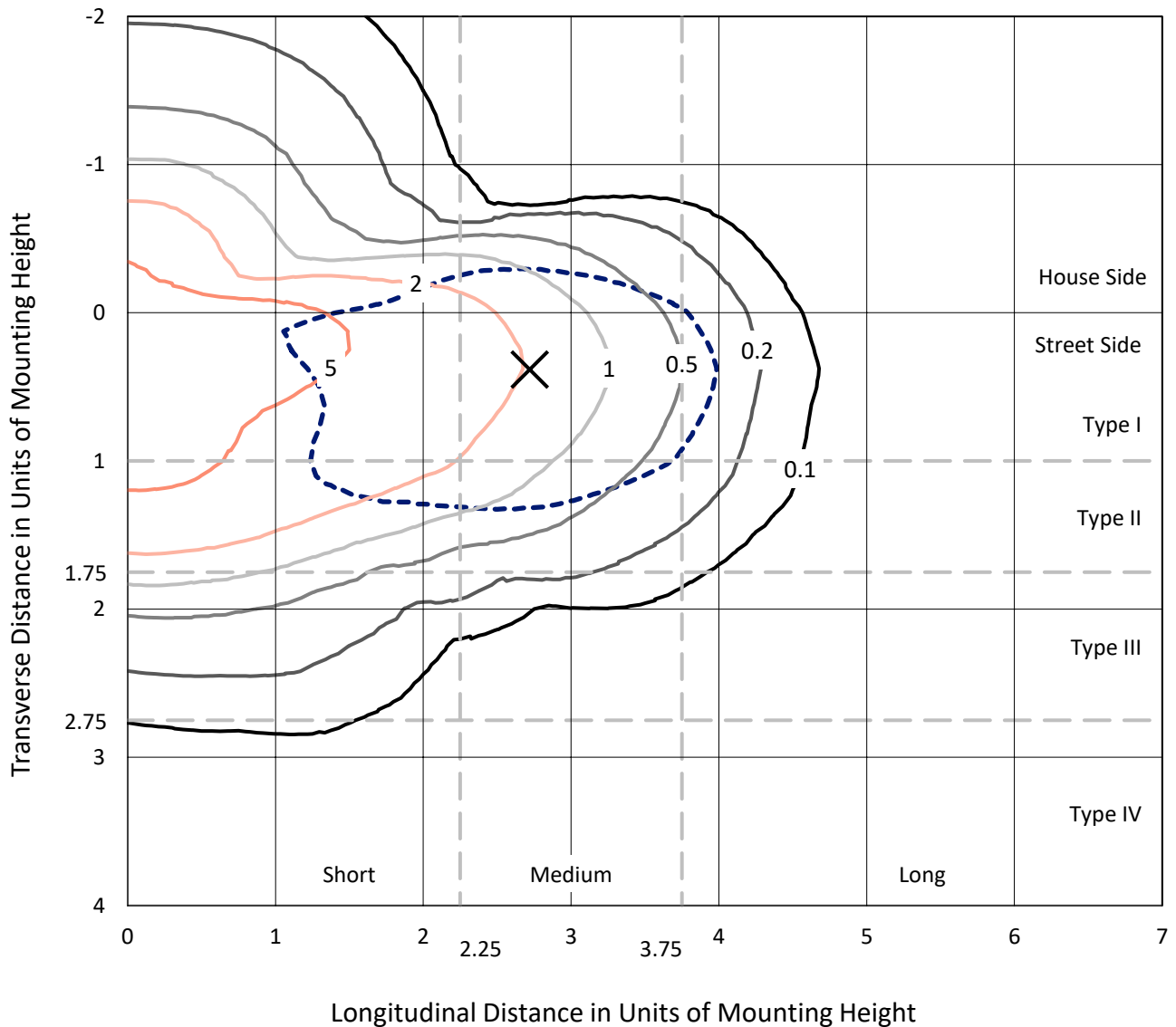
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

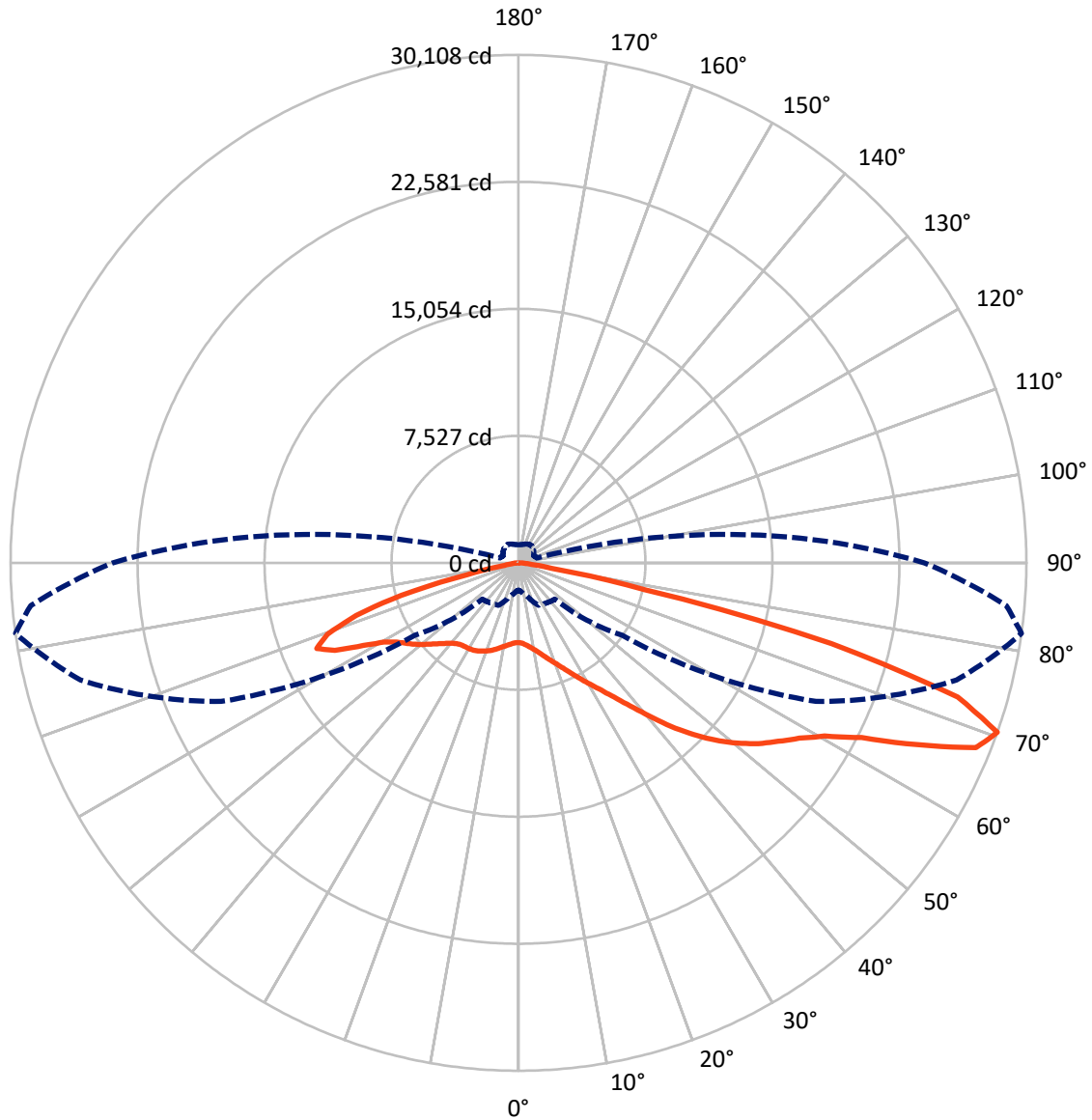
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	7942.8	0.0	7942.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24276.2	0.0	24276.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	32219.0	0.0	32219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.0	1.4
10°-20°	1281.4	4.0
20°-30°	2143.6	6.7
30°-40°	3348.9	10.4
40°-50°	5333.5	16.6
50°-60°	7422.3	23.0
60°-70°	7764.0	24.1
70°-80°	4057.9	12.6
80°-90°	421.4	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°	32219.0	100.0
0°-180°	32219.0	100.0

Coefficient of Utilization

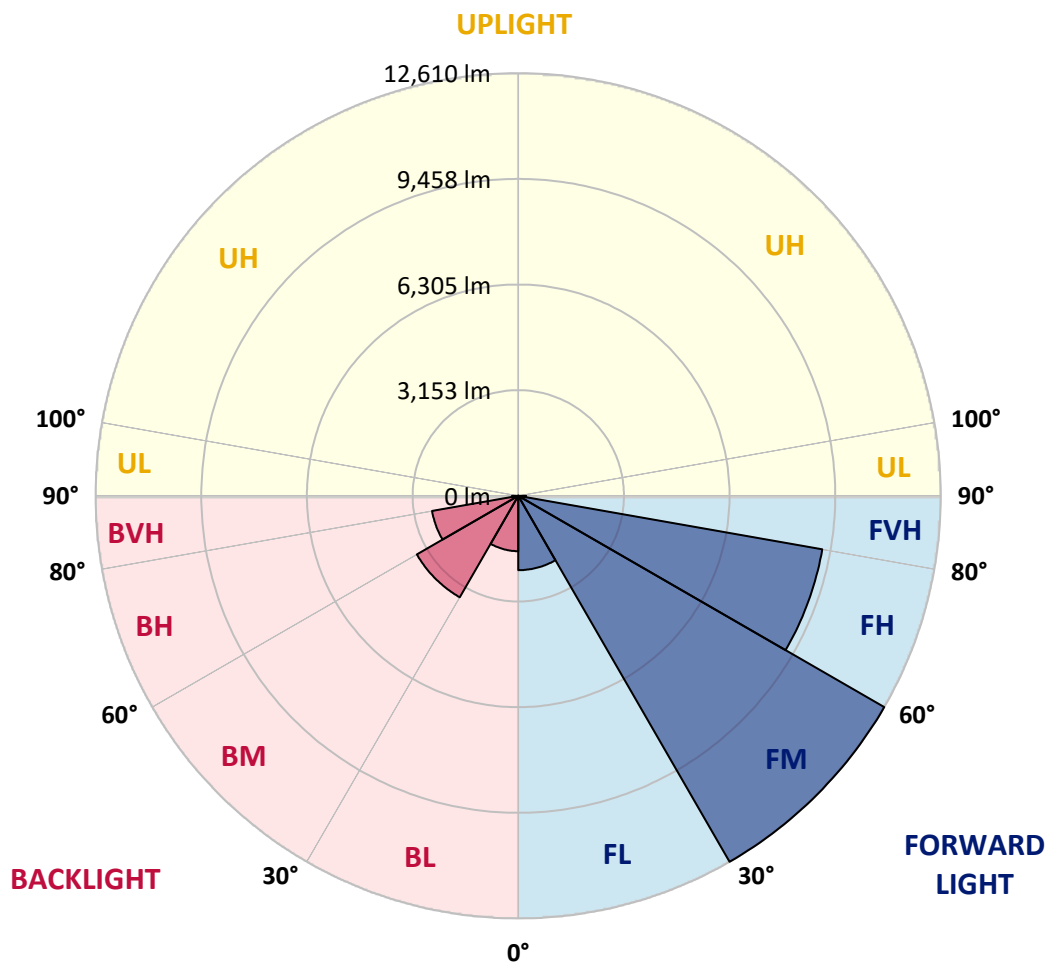


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.6	6.9			
FM (30°-60°)	12610.2	39.1			
FH (60°-80°)	9211.5	28.6			G4/12000
FVH (80°-90°)	235.9	0.7			G3/500
BL (0°-30°)	1652.4	5.1	B3/2500		
BM (30°-60°)	3494.5	10.8	B3/5000		
BH (60°-80°)	2610.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	185.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	4836.5	4863.9	4855.3	4846.8	4846.8	4834.8	4833.1	4816.0	4802.4	4780.1
5°	4898.1	4927.2	4923.7	4930.6	4952.8	4957.9	4963.1	4952.8	4925.4	4898.1
7.5°	4843.4	4875.9	4886.1	4927.2	4995.5	5057.1	5103.2	5122.1	5096.4	5057.1
10°	4658.7	4694.6	4730.5	4828.0	4949.4	5094.7	5217.8	5291.3	5286.2	5248.6
12.5°	4284.3	4321.9	4398.9	4588.6	4810.9	5067.3	5296.4	5450.3	5503.3	5475.9
15°	3985.1	4017.6	4075.8	4270.7	4559.6	4949.4	5325.5	5624.7	5759.7	5744.4
17.5°	3976.6	3990.3	4026.2	4118.5	4340.8	4764.7	5294.7	5795.6	6053.8	6052.1
20°	4127.0	4132.2	4152.7	4171.5	4298.0	4624.5	5216.1	5937.5	6383.8	6383.8
22.5°	4335.6	4332.2	4352.7	4335.6	4397.2	4612.6	5166.5	6062.3	6751.3	6778.7
25°	4648.5	4631.4	4626.3	4586.9	4598.9	4723.7	5221.2	6204.2	7187.3	7243.7
27.5°	5065.6	5038.3	5019.5	4928.9	4898.1	4952.8	5388.8	6375.2	7672.8	7770.3
30°	5609.3	5559.7	5532.4	5375.1	5264.0	5272.5	5641.8	6602.6	8180.6	8337.9
32.5°	6351.3	6274.3	6200.8	5942.7	5739.2	5672.6	5968.3	6917.2	8731.1	8982.4
35°	7182.2	7120.6	7042.0	6643.6	6330.8	6176.9	6409.4	7356.5	9375.6	9774.0
37.5°	7982.3	7929.3	7966.9	7430.1	7026.6	6802.6	6987.3	7946.4	10170.6	10758.7
40°	8809.7	8768.7	8773.8	8260.9	7790.8	7539.5	7688.2	8686.6	11081.8	11929.8
42.5°	9709.0	9678.2	9575.6	9120.9	8592.6	8358.4	8495.2	9541.4	12059.7	13263.3
45°	10716.0	10697.2	10601.4	10080.0	9474.8	9211.5	9396.1	10485.2	13042.8	14518.2
47.5°	11586.2	11601.6	11589.6	11150.2	10522.8	10136.4	10356.9	11469.9	13957.4	15697.8
50°	12005.0	12085.4	12203.3	12066.6	11676.8	11283.6	11326.3	12420.5	14829.3	16804.0
52.5°	11786.2	11938.3	12259.8	12478.6	12629.0	12547.0	12432.4	13364.2	15650.0	17802.4
55°	10970.7	11184.4	11717.8	12246.1	13013.7	13610.4	13760.8	14410.5	16450.1	18681.1
57.5°	9485.0	9832.1	10310.8	11379.3	12671.8	14125.0	15309.7	15861.9	17298.0	19619.7
60°	6937.7	7402.7	7997.7	9587.6	11475.0	13849.7	16627.9	18091.3	18503.3	20835.3
62.5°	4439.9	4727.1	5274.2	6771.8	8941.4	12439.3	17031.3	20878.0	20546.3	22828.7
65°	3039.7	3224.4	3725.3	4566.4	5780.3	9259.4	15950.8	22967.2	23791.2	25988.1
67.5°	2208.8	2349.0	2776.4	3513.3	3766.3	5479.4	12377.7	22871.4	26945.5	29243.2
70°	1610.5	1709.6	2068.7	2776.4	2897.8	3048.3	7498.4	19441.9	26877.1	30108.3
72.5°	1193.3	1261.7	1502.8	2154.1	2345.6	2058.4	3711.6	14130.1	23095.4	27232.7
75°	863.4	914.7	1092.5	1648.1	1877.2	1567.7	1851.5	8257.5	16109.8	19156.4
77.5°	659.9	699.2	815.5	1207.0	1502.8	1176.2	1148.9	3798.8	7638.6	7676.2
80°	530.0	555.6	618.9	849.7	1152.3	880.5	748.8	1533.5	2414.0	2043.0
82.5°	389.8	432.5	523.1	596.7	824.0	606.9	456.5	774.5	918.1	789.8
85°	222.3	251.3	316.3	427.4	526.6	371.0	261.6	343.6	427.4	350.5
87.5°	78.6	102.6	111.1	167.5	229.1	153.9	100.9	99.2	140.2	104.3
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°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
4775.0	2.5°	4757.9	4749.4	4715.2	4669.0	4621.1	4575.0	4559.6	4527.1	4504.9	4492.9
4886.1	5°	4853.6	4826.3	4745.9	4643.4	4535.6	4419.4	4337.3	4262.1	4207.4	4156.1
5038.3	7.5°	4990.4	4942.5	4804.1	4624.5	4433.1	4239.9	4096.3	3986.9	3913.3	3865.5
5216.1	10°	5149.4	5075.9	4863.9	4595.5	4299.7	4022.8	3853.5	3759.5	3713.3	3687.7
5419.5	12.5°	5332.3	5228.0	4925.4	4528.8	4096.3	3780.0	3663.7	3636.4	3638.1	3639.8
5676.0	15°	5558.0	5412.7	4975.0	4383.5	3831.3	3593.6	3573.1	3617.6	3663.7	3686.0
5966.6	17.5°	5812.7	5607.6	4983.6	4144.1	3571.4	3474.0	3538.9	3634.7	3704.8	3735.5
6291.4	20°	6086.3	5805.9	4922.0	3805.6	3357.7	3376.5	3492.8	3615.9	3692.8	3732.1
6662.4	22.5°	6399.1	6017.9	4775.0	3450.0	3183.3	3270.5	3407.3	3527.0	3607.3	3646.6
7098.4	25°	6756.5	6255.5	4544.2	3150.8	3032.9	3150.8	3287.6	3386.8	3451.7	3487.6
7585.6	27.5°	7153.1	6503.4	4236.5	2913.2	2901.2	3027.8	3140.6	3217.5	3251.7	3279.1
8103.6	30°	7551.4	6729.1	3863.8	2733.7	2786.7	2906.4	2986.7	3020.9	3031.2	3036.3
8681.5	32.5°	7982.3	6924.0	3472.3	2585.0	2677.3	2788.4	2836.3	2851.7	2803.8	2771.3
9382.5	35°	8503.7	7132.6	3089.3	2467.0	2569.6	2665.3	2680.7	2667.0	2610.6	2543.9
10261.2	37.5°	9148.2	7392.4	2783.3	2383.2	2468.7	2532.0	2513.2	2509.7	2514.9	2436.2
11317.8	40°	9938.1	7730.9	2559.3	2318.3	2386.6	2400.3	2347.3	2376.4	2402.0	2282.4
12476.9	42.5°	10815.1	8139.5	2417.4	2273.8	2318.3	2285.8	2203.7	2236.2	2232.8	2075.5
13641.1	45°	11709.3	8584.1	2367.8	2241.3	2255.0	2190.0	2099.4	2108.0	2036.2	1894.3
14757.5	47.5°	12598.3	9061.0	2398.6	2214.0	2176.4	2102.8	2032.8	1995.1	1889.1	1783.1
15827.8	50°	13470.2	9562.0	2511.4	2159.3	2068.7	2025.9	1974.6	1907.9	1795.1	1704.5
16839.9	52.5°	14278.8	10066.3	2638.0	2068.7	1933.6	1959.2	1926.8	1849.8	1738.7	1646.4
17797.3	55°	15044.7	10570.6	2687.5	1943.8	1807.1	1901.1	1882.3	1740.4	1607.1	1531.8
18799.1	57.5°	15879.0	11177.6	2632.8	1784.9	1704.5	1834.4	1762.6	1605.3	1528.4	1472.0
20103.5	60°	17034.8	12129.8	2514.9	1588.2	1607.1	1735.3	1612.2	1547.2	1463.4	1400.2
22059.4	62.5°	18954.7	13906.1	2325.1	1393.3	1492.5	1588.2	1540.4	1475.4	1389.9	1328.4
25403.4	65°	21792.7	16374.8	1967.8	1241.2	1364.3	1444.6	1463.4	1398.5	1309.6	1244.6
28333.7	67.5°	24186.1	17923.8	1489.1	1114.7	1232.6	1328.4	1381.4	1318.1	1224.1	1160.8
29019.3	70°	24054.5	16798.8	1136.9	989.9	1116.4	1213.8	1282.2	1232.6	1131.8	1071.9
26359.1	72.5°	21365.2	14053.2	919.8	863.4	998.4	1094.2	1176.2	1138.6	1036.0	977.9
19310.3	75°	15696.1	9975.7	735.1	735.1	851.4	969.4	1060.0	1036.0	942.0	901.0
8107.1	77.5°	6616.3	4185.2	576.1	610.3	707.8	832.6	945.4	954.0	871.9	923.2
2143.9	80°	1759.2	1154.0	439.4	480.4	555.6	687.3	822.3	818.9	730.0	682.1
796.7	82.5°	670.2	454.8	312.9	338.5	401.8	526.6	651.4	671.9	583.0	504.3
312.9	85°	258.2	194.9	193.2	203.4	234.2	348.8	492.4	509.5	439.4	372.7
87.2	87.5°	66.7	58.1	71.8	68.4	107.7	186.3	282.1	292.3	268.4	155.6
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°
4723.7
4506.6
4176.6
3875.7
3694.5
3643.2
3684.3
3742.4
3742.4
3656.9
3497.9
3289.3
3048.3
2781.6
2547.3
2441.4
2285.8
2073.8
1899.4
1783.1
1697.7
1648.1
1525.0
1466.9
1396.8
1328.4
1248.0
1162.5
1077.1
977.9
889.0
837.7
634.3
504.3
384.7
222.3
0.0

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