

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: P852697

Luminaire Tested: **GLAN-SB5D-727-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45182 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

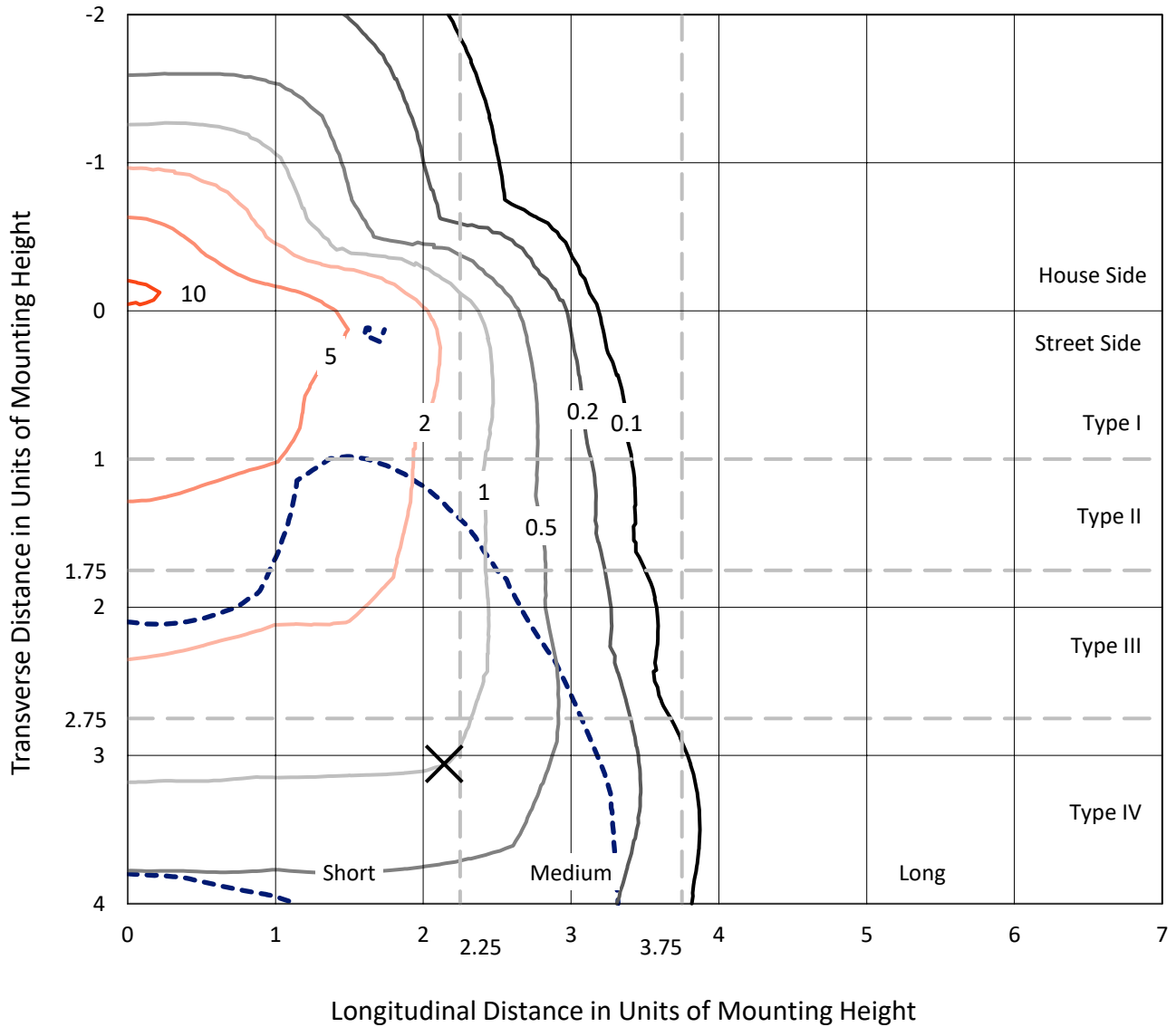
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

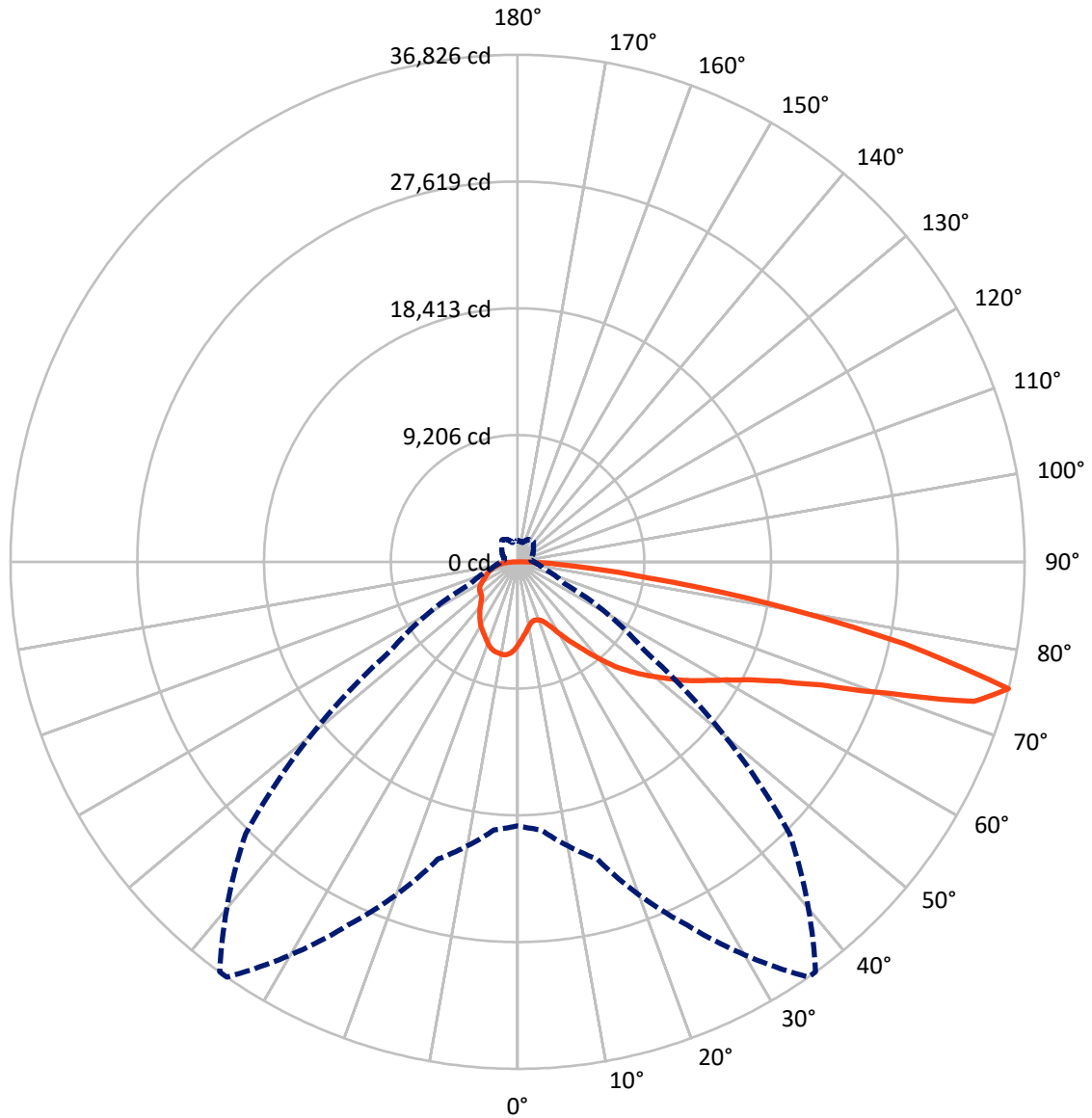
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10752.2	0.0	10752.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	34429.8	0.0	34429.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	45182.0	0.0	45182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	1.3
10°-20°	1644.3	3.6
20°-30°	2761.2	6.1
30°-40°	4291.2	9.5
40°-50°	6369.3	14.1
50°-60°	8793.2	19.5
60°-70°	10668.2	23.6
70°-80°	8816.5	19.5
80°-90°	1268.1	2.8
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°	45182.0	100.0
0°-180°	45182.0	100.0

Coefficient of Utilization

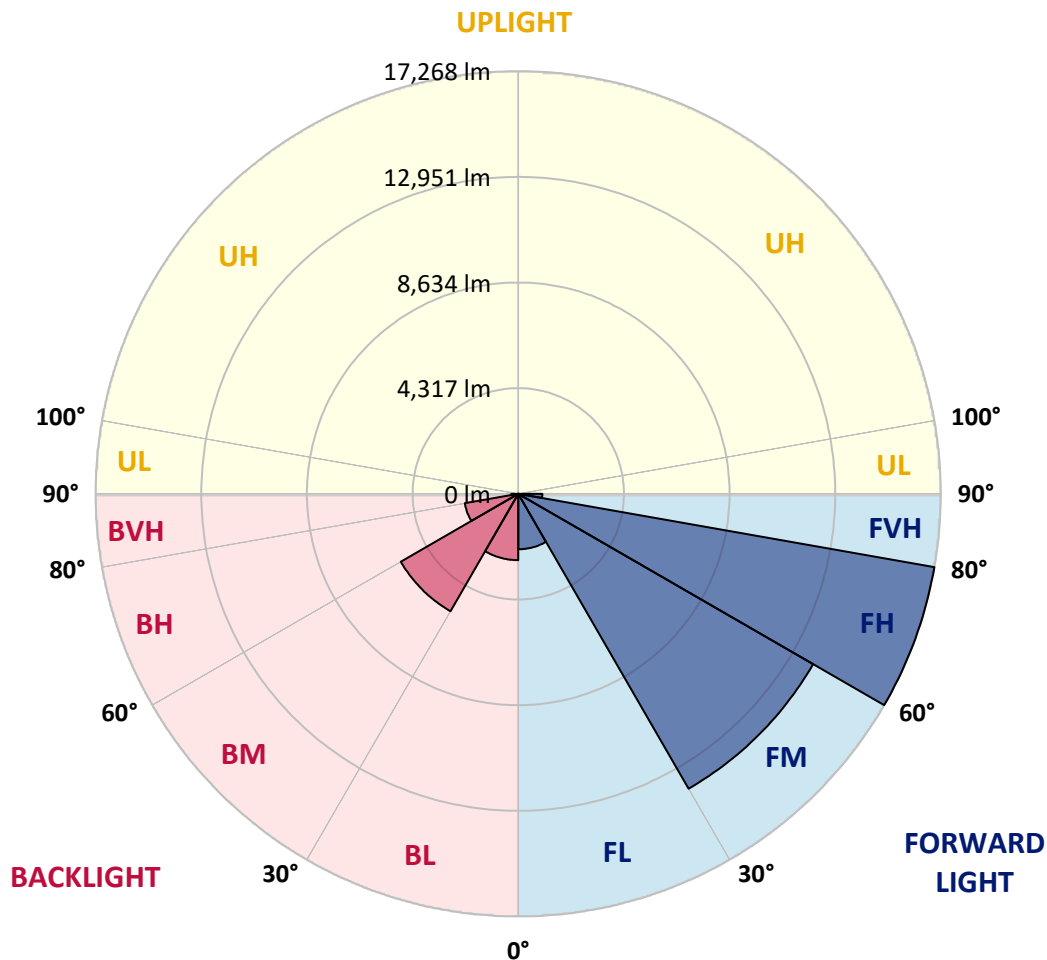


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.8	5.0			
FM (30°-60°)	13913.6	30.8			
FH (60°-80°)	17267.9	38.2			G5
FVH (80°-90°)	982.5	2.2			G5
BL (0°-30°)	2709.7	6.0	B4/5000		
BM (30°-60°)	5540.2	12.3	B4/8500		
BH (60°-80°)	2216.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	285.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8
2.5°	5551.8	5586.0	5600.7	5593.4	5630.0	5625.1	5676.4	5739.9	5827.8	5913.3
5°	5124.4	5161.0	5192.8	5222.1	5292.9	5314.9	5395.5	5517.6	5678.9	5842.5
7.5°	4726.3	4758.0	4806.9	4860.6	4980.3	5002.3	5136.6	5327.1	5551.8	5791.2
10°	4401.4	4433.2	4484.5	4545.5	4694.5	4721.4	4892.4	5146.4	5439.5	5742.4
12.5°	4262.2	4272.0	4301.3	4362.3	4491.8	4508.9	4697.0	4987.6	5329.6	5705.7
15°	4254.9	4274.4	4276.8	4308.6	4416.1	4423.4	4596.8	4885.0	5261.2	5698.4
17.5°	4328.1	4342.8	4320.8	4340.4	4430.7	4442.9	4579.7	4836.2	5239.2	5730.1
20°	4523.5	4535.8	4469.8	4442.9	4508.9	4518.7	4653.0	4867.9	5261.2	5796.1
22.5°	4938.8	4946.1	4784.9	4675.0	4679.9	4684.7	4802.0	4997.4	5346.7	5915.8
25°	5586.0	5581.2	5324.7	5112.2	4990.1	4963.2	5041.4	5207.4	5490.8	6074.5
27.5°	6343.2	6306.6	6050.1	5732.6	5466.4	5427.3	5410.2	5481.0	5696.0	6284.6
30°	7198.1	7163.9	6887.9	6472.7	6103.9	6040.3	5879.1	5842.5	6001.3	6570.4
32.5°	8136.0	8114.0	7784.3	7281.1	6787.8	6714.5	6443.4	6345.7	6470.2	7002.7
35°	8922.5	8903.0	8629.4	8111.6	7508.3	7417.9	7141.9	7032.0	7095.5	7557.2
37.5°	9633.3	9623.5	9389.0	8981.1	8358.3	8248.4	7938.2	7901.5	7889.3	8287.5
40°	10292.8	10268.3	10024.1	9809.2	9347.5	9247.4	8973.8	8942.1	8849.2	9186.3
42.5°	11023.1	10959.6	10605.4	10505.3	10380.7	10297.7	10134.0	10138.9	9933.7	10200.0
45°	11619.1	11582.4	11218.5	11159.9	11294.2	11260.0	11401.7	11438.3	11040.2	11262.5
47.5°	12259.0	12224.8	11917.0	11875.5	12239.5	12249.2	12749.9	12762.2	12119.8	12366.5
50°	13047.9	12999.1	12693.8	12745.1	13153.0	13189.6	14105.5	14022.5	13113.9	13487.6
52.5°	13568.2	13597.5	13531.6	13614.6	14171.5	14205.7	15439.2	15226.7	14098.2	14594.0
55°	13951.7	14010.3	14215.5	14406.0	15246.2	15280.4	16697.1	16372.2	14914.0	15619.9
57.5°	14445.1	14362.0	14745.5	15116.7	16267.2	16357.5	17920.8	17476.2	15637.0	16504.1
60°	15153.4	15094.8	15392.7	15942.3	17410.3	17554.4	19215.3	18470.3	16167.0	17205.1
62.5°	16589.6	16443.0	16489.4	16975.5	18851.4	19041.9	20675.9	19337.4	16430.8	17478.7
65°	18736.6	18485.0	18250.5	18587.6	20881.1	21069.2	22324.6	20018.9	16333.1	16948.6
67.5°	21440.4	21191.3	20903.1	21220.6	23870.7	24019.7	24359.2	20402.4	15563.7	14906.7
70°	23670.4	23577.6	23922.0	25228.8	28645.9	28650.7	26967.8	20084.8	13455.8	10568.8
72.5°	23374.9	23318.7	25133.5	29173.4	34664.2	34534.8	29437.2	17681.4	9064.2	4767.8
75°	19176.2	19540.1	22351.5	29102.6	36825.8	36808.7	27925.3	11240.5	3749.3	1976.0
77.5°	10283.0	10859.4	14511.0	21486.8	28748.4	29180.8	19633.0	3932.5	1609.6	1265.2
80°	3353.6	3856.7	5783.9	10940.0	18680.4	18599.8	8414.5	1543.7	1101.6	896.4
82.5°	1424.0	1482.6	2584.2	5165.9	9586.9	9437.9	2679.4	886.6	774.3	613.1
85°	556.9	622.8	1140.7	2388.8	4152.3	4061.9	967.2	439.7	495.8	400.6
87.5°	183.2	222.3	407.9	818.2	1292.1	1245.7	236.9	151.4	214.9	183.2
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°
6020.8	0°	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8	6020.8
6037.9	2.5°	6072.1	6111.2	6157.6	6226.0	6284.6	6333.4	6384.7	6416.5	6428.7	6465.3
6047.7	5°	6116.1	6201.6	6316.4	6428.7	6538.6	6604.6	6663.2	6692.5	6719.4	6738.9
6074.5	7.5°	6189.3	6299.3	6480.0	6626.6	6719.4	6773.1	6812.2	6802.4	6812.2	6817.1
6103.9	10°	6252.8	6406.7	6621.7	6760.9	6831.7	6834.2	6824.4	6790.2	6773.1	6775.5
6147.8	12.5°	6328.6	6499.5	6731.6	6848.8	6868.4	6814.6	6773.1	6714.5	6692.5	6682.7
6213.8	15°	6431.2	6626.6	6851.3	6895.2	6846.4	6778.0	6707.2	6611.9	6563.0	6524.0
6326.1	17.5°	6555.7	6770.7	6944.1	6912.3	6807.3	6694.9	6580.1	6436.0	6335.9	6294.4
6480.0	20°	6729.1	6922.1	7014.9	6875.7	6716.9	6545.9	6350.5	6174.7	6081.9	6040.3
6675.4	22.5°	6939.2	7124.8	7083.3	6812.2	6587.5	6313.9	6069.7	5940.2	5893.8	5864.5
6927.0	25°	7190.8	7349.5	7132.2	6719.4	6375.0	6006.2	5818.1	5776.6	5754.6	5732.6
7234.7	27.5°	7518.1	7603.6	7168.8	6582.6	6042.8	5678.9	5610.5	5617.8	5610.5	5573.8
7662.2	30°	7950.4	7933.3	7203.0	6360.3	5661.8	5383.3	5388.2	5419.9	5424.8	5400.4
8258.2	32.5°	8519.5	8346.1	7220.1	6072.1	5297.8	5124.4	5129.3	5163.5	5187.9	5146.4
9037.3	35°	9208.3	8827.3	7193.2	5710.6	5016.9	4877.7	4841.1	4850.8	4858.2	4819.1
9982.6	37.5°	10011.9	9367.1	7073.5	5310.0	4784.9	4635.9	4557.7	4491.8	4452.7	4416.1
11052.4	40°	10893.6	9955.7	6853.7	4919.2	4526.0	4379.4	4262.2	4137.6	4005.7	3956.9
12185.7	42.5°	11816.9	10561.4	6587.5	4545.5	4228.0	4108.3	3983.7	3803.0	3605.2	3505.0
13363.0	45°	12774.4	11181.8	6326.1	4176.7	3922.7	3871.4	3727.3	3509.9	3295.0	3167.9
14542.8	47.5°	13712.3	11768.1	5942.6	3805.4	3636.9	3693.1	3580.7	3380.4	3141.1	2940.8
15712.7	50°	14608.7	12317.6	5314.9	3429.3	3404.9	3639.4	3531.9	3243.7	2970.1	2713.6
16860.7	52.5°	15497.8	12762.2	4511.3	3087.3	3280.3	3624.7	3468.4	3150.8	2816.2	2547.5
17940.3	55°	16252.5	12991.8	3737.1	2794.2	3099.6	3500.1	3392.7	3040.9	2598.8	2313.1
18680.4	57.5°	16682.4	12806.1	3092.2	2506.0	2850.4	3295.0	3263.2	2806.5	2339.9	2120.1
18824.5	60°	16496.8	12053.8	2564.6	2254.4	2613.5	3072.7	3038.5	2574.4	2142.1	1934.5
18052.7	62.5°	15473.4	10620.1	2147.0	2034.6	2398.6	2845.5	2813.8	2396.1	1990.7	1790.4
16003.4	65°	13411.9	8639.2	1822.1	1851.4	2181.2	2572.0	2618.4	2247.1	1871.0	1675.6
12381.1	67.5°	10229.3	6257.7	1568.1	1692.7	1968.7	2303.3	2437.6	2139.6	1770.8	1585.2
7163.9	70°	5830.3	3553.9	1353.2	1538.8	1780.6	2054.2	2298.4	2054.2	1663.4	1509.5
2684.3	72.5°	2210.5	1631.6	1170.0	1384.9	1599.8	1844.1	2144.5	1919.8	1538.8	1424.0
1387.4	75°	1179.7	994.1	984.3	1204.2	1392.2	1638.9	1951.6	1787.9	1446.0	1504.6
959.9	77.5°	803.6	703.4	823.1	1030.7	1165.1	1411.8	1746.4	1587.6	1253.0	1248.1
664.4	80°	556.9	498.3	669.2	830.5	901.3	1187.1	1524.1	1362.9	1021.0	952.6
410.3	82.5°	334.6	324.9	500.7	620.4	637.5	915.9	1262.8	1143.1	835.3	727.9
244.3	85°	183.2	193.0	320.0	363.9	371.3	639.9	989.2	884.2	642.4	539.8
87.9	87.5°	51.3	65.9	117.2	144.1	178.3	332.2	588.6	525.1	322.4	224.7
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°
6020.8
6462.9
6743.8
6824.4
6780.4
6677.8
6536.2
6296.8
6035.5
5869.4
5732.6
5581.2
5412.6
5165.9
4846.0
4440.5
3978.9
3517.2
3158.2
2918.8
2691.7
2518.2
2288.6
2090.8
1905.2
1758.6
1643.8
1555.9
1489.9
1404.4
1553.4
1150.4
911.1
732.8
544.7
224.7
0.0

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