

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: P852987

Luminaire Tested: **GLAN-SB7D-840-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852987  
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-SB7D-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63610 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

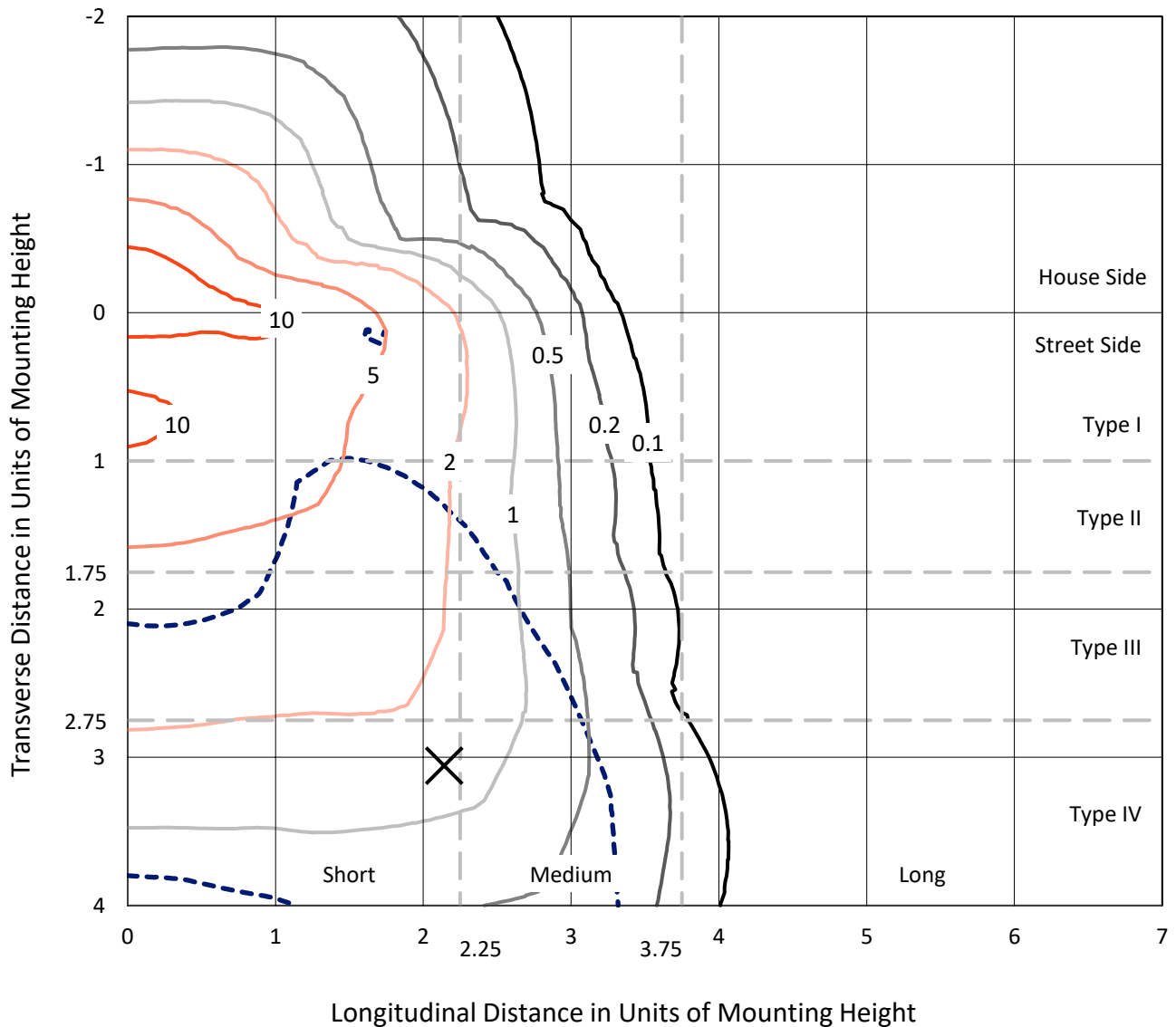
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

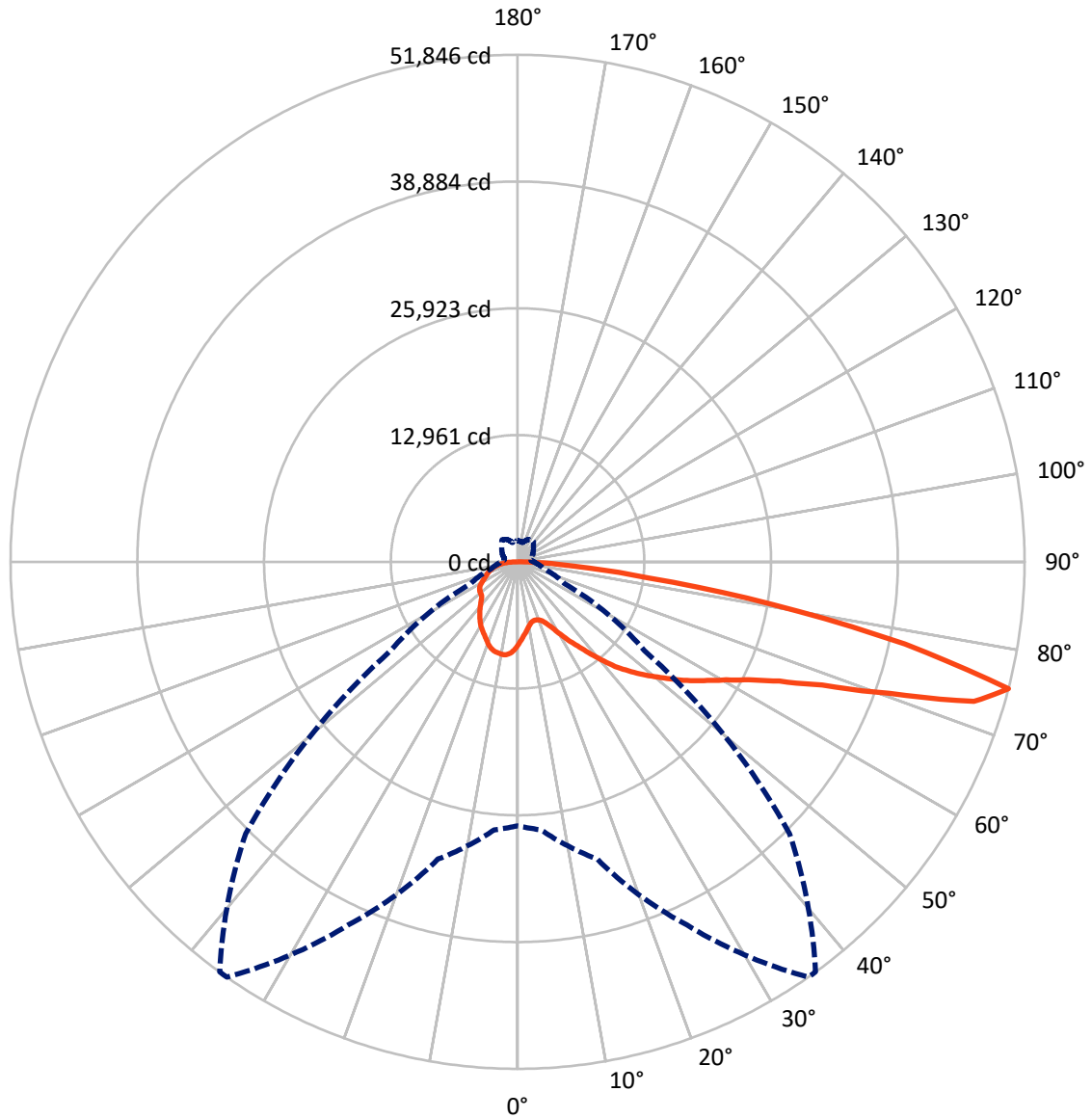
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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
<b>House Side</b>	Lumens	15137.6	0.0	15137.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	48472.4	0.0	48472.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	63610.0	0.0	63610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.5	1.3
10°-20°	2314.9	3.6
20°-30°	3887.3	6.1
30°-40°	6041.5	9.5
40°-50°	8967.1	14.1
50°-60°	12379.7	19.5
60°-70°	15019.3	23.6
70°-80°	12412.4	19.5
80°-90°	1785.3	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°	63610.0	100.0
0°-180°	63610.0	100.0

**Coefficient of Utilization**

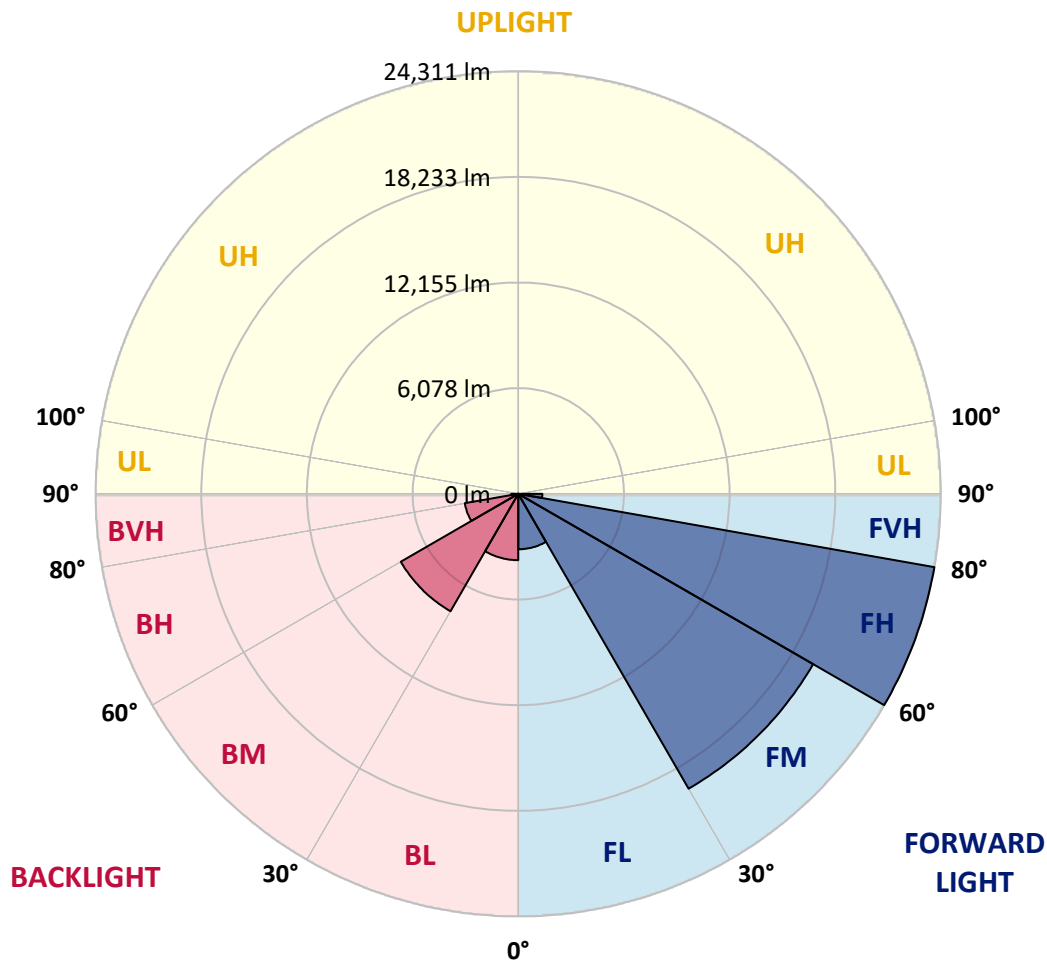


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3189.9	5.0			
FM (30°-60°)	19588.4	30.8			
FH (60°-80°)	24310.8	38.2			G5
FVH (80°-90°)	1383.3	2.2			G5
BL (0°-30°)	3814.9	6.0	B4/5000		
BM (30°-60°)	7799.8	12.3	B4/8500		
BH (60°-80°)	3120.9	4.9	B4/5000		G4/5000
BVH (80°-90°)	402.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5
2.5°	7816.2	7864.4	7885.0	7874.7	7926.3	7919.4	7991.6	8081.0	8204.8	8325.2
5°	7214.4	7266.0	7310.7	7352.0	7451.7	7482.7	7596.1	7768.1	7995.0	8225.4
7.5°	6653.9	6698.6	6767.4	6843.1	7011.6	7042.5	7231.6	7499.9	7816.2	8153.2
10°	6196.6	6241.3	6313.5	6399.5	6609.2	6647.1	6887.8	7245.4	7658.0	8084.4
12.5°	6000.6	6014.3	6055.6	6141.6	6323.8	6347.9	6612.7	7021.9	7503.3	8032.9
15°	5990.3	6017.8	6021.2	6065.9	6217.2	6227.5	6471.7	6877.5	7407.0	8022.6
17.5°	6093.4	6114.1	6083.1	6110.6	6237.9	6255.0	6447.6	6808.7	7376.1	8067.3
20°	6368.5	6385.7	6292.9	6255.0	6347.9	6361.6	6550.8	6853.4	7407.0	8160.1
22.5°	6953.1	6963.4	6736.5	6581.7	6588.6	6595.5	6760.5	7035.6	7527.4	8328.6
25°	7864.4	7857.5	7496.4	7197.3	7025.3	6987.5	7097.5	7331.4	7730.3	8552.1
27.5°	8930.4	8878.8	8517.7	8070.7	7695.9	7640.9	7616.8	7716.5	8019.1	8847.8
30°	10133.9	10085.8	9697.2	9112.6	8593.4	8504.0	8277.0	8225.4	8449.0	9250.2
32.5°	11454.4	11423.5	10959.2	10250.8	9556.2	9453.1	9071.4	8933.8	9109.2	9858.8
35°	12561.7	12534.2	12149.0	11420.0	10570.6	10443.4	10054.8	9900.1	9989.5	10639.4
37.5°	13562.3	13548.6	13218.5	12644.2	11767.3	11612.6	11175.9	11124.3	11107.1	11667.6
40°	14490.8	14456.4	14112.5	13809.9	13160.0	13019.0	12633.9	12589.2	12458.5	12933.1
42.5°	15519.0	15429.6	14931.0	14790.0	14614.6	14497.7	14267.3	14274.2	13985.3	14360.1
45°	16358.0	16306.4	15794.1	15711.5	15900.7	15852.5	16052.0	16103.6	15543.0	15856.0
47.5°	17259.0	17210.8	16777.6	16719.1	17231.5	17245.2	17950.2	17967.4	17063.0	17410.3
50°	18369.7	18300.9	17871.1	17943.3	18517.5	18569.1	19858.7	19741.7	18462.5	18988.7
52.5°	19102.1	19143.4	19050.5	19167.5	19951.5	19999.6	21736.2	21437.0	19848.3	20546.4
55°	19642.0	19724.5	20013.4	20281.6	21464.5	21512.7	23507.1	23049.8	20996.9	21990.7
57.5°	20336.6	20219.7	20759.6	21282.3	22901.9	23029.2	25229.9	24604.1	22014.7	23235.5
60°	21333.9	21251.3	21670.9	22444.6	24511.2	24714.1	27052.5	26003.7	22760.9	24222.4
62.5°	23355.8	23149.5	23214.8	23899.2	26540.1	26808.3	29108.8	27224.4	23132.3	24607.5
65°	26378.5	26024.3	25694.2	26168.7	29397.7	29662.5	31430.0	28183.8	22994.8	23861.3
67.5°	30185.1	29834.4	29428.6	29875.7	33606.7	33816.4	34294.4	28723.7	21911.6	20986.6
70°	33324.7	33194.0	33678.9	35518.6	40329.4	40336.3	37967.0	28276.7	18943.9	14879.4
72.5°	32908.6	32829.5	35384.5	41072.2	48802.4	48620.2	41443.5	24892.9	12761.1	6712.4
75°	26997.4	27509.8	31467.8	40972.4	51845.7	51821.6	39315.0	15825.0	5278.4	2781.9
77.5°	14477.0	15288.6	20429.5	30250.5	40473.8	41082.5	27640.5	5536.4	2266.1	1781.3
80°	4721.4	5429.8	8142.9	15402.1	26299.4	26185.9	11846.4	2173.3	1550.9	1262.0
82.5°	2004.8	2087.3	3638.2	7272.9	13497.0	13287.2	3772.3	1248.3	1090.1	863.1
85°	784.0	876.9	1605.9	3363.1	5845.8	5718.6	1361.7	619.0	698.1	564.0
87.5°	257.9	312.9	574.3	1152.0	1819.1	1753.8	333.6	213.2	302.6	257.9
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°
8476.5	0°	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5	8476.5
8500.5	2.5°	8548.7	8603.7	8669.0	8765.3	8847.8	8916.6	8988.8	9033.5	9050.7	9102.3
8514.3	5°	8610.6	8730.9	8892.5	9050.7	9205.5	9298.3	9380.8	9422.1	9459.9	9487.4
8552.1	7.5°	8713.7	8868.5	9122.9	9329.3	9459.9	9535.6	9590.6	9576.9	9590.6	9597.5
8593.4	10°	8803.1	9019.8	9322.4	9518.4	9618.1	9621.6	9607.8	9559.7	9535.6	9539.0
8655.3	12.5°	8909.7	9150.5	9477.1	9642.2	9669.7	9594.0	9535.6	9453.1	9422.1	9408.4
8748.1	15°	9054.2	9329.3	9645.6	9707.5	9638.8	9542.5	9442.7	9308.6	9239.9	9184.8
8906.3	17.5°	9229.5	9532.2	9776.3	9731.6	9583.7	9425.6	9263.9	9061.0	8920.1	8861.6
9122.9	20°	9473.7	9745.4	9876.0	9680.0	9456.5	9215.8	8940.7	8693.1	8562.4	8504.0
9398.0	22.5°	9769.4	10030.8	9972.3	9590.6	9274.2	8889.1	8545.2	8363.0	8297.6	8256.4
9752.2	25°	10123.6	10347.1	10041.1	9459.9	8975.1	8455.8	8191.0	8132.6	8101.6	8070.7
10185.5	27.5°	10584.4	10704.8	10092.7	9267.4	8507.4	7995.0	7898.8	7909.1	7898.8	7847.2
10787.3	30°	11193.1	11169.0	10140.8	8954.4	7971.0	7579.0	7585.8	7630.5	7637.4	7603.0
11626.3	32.5°	11994.3	11750.1	10164.9	8548.7	7458.6	7214.4	7221.3	7269.5	7303.9	7245.4
12723.3	35°	12964.0	12427.6	10127.1	8039.7	7063.1	6867.1	6815.6	6829.3	6839.6	6784.6
14054.1	37.5°	14095.3	13187.5	9958.6	7475.8	6736.5	6526.7	6416.7	6323.8	6268.8	6217.2
15560.2	40°	15336.7	14016.3	9649.1	6925.6	6372.0	6165.6	6000.6	5825.2	5639.5	5570.7
17155.8	42.5°	16636.6	14869.1	9274.2	6399.5	5952.4	5783.9	5608.6	5354.1	5075.6	4934.6
18813.3	45°	17984.5	15742.5	8906.3	5880.2	5522.6	5450.4	5247.5	4941.5	4638.8	4460.0
20474.2	47.5°	19305.0	16567.8	8366.4	5357.5	5120.3	5199.4	5041.2	4759.2	4422.2	4140.2
22121.3	50°	20567.0	17341.5	7482.7	4828.0	4793.6	5123.7	4972.4	4566.6	4181.5	3820.4
23737.5	52.5°	21818.7	17967.4	6351.3	4346.6	4618.2	5103.1	4883.0	4436.0	3964.9	3586.6
25257.5	55°	22881.3	18290.6	5261.3	3933.9	4363.7	4927.7	4776.4	4281.2	3658.8	3256.5
26299.4	57.5°	23486.5	18029.2	4353.4	3528.1	4013.0	4638.8	4594.1	3951.1	3294.3	2984.8
26502.3	60°	23225.2	16970.1	3610.7	3173.9	3679.4	4325.9	4277.8	3624.4	3015.8	2723.5
25415.6	62.5°	21784.3	14951.6	3022.6	2864.5	3376.8	4006.1	3961.4	3373.4	2802.6	2520.6
22530.5	65°	18882.1	12162.8	2565.3	2606.6	3070.8	3621.0	3686.3	3163.6	2634.1	2359.0
17430.9	67.5°	14401.4	8810.0	2207.7	2383.0	2771.6	3242.7	3431.8	3012.3	2493.1	2231.7
10085.8	70°	8208.2	5003.3	1905.1	2166.4	2506.8	2892.0	3235.8	2892.0	2341.8	2125.1
3779.2	72.5°	3112.0	2297.1	1647.2	1949.8	2252.4	2596.2	3019.2	2702.8	2166.4	2004.8
1953.2	75°	1660.9	1399.6	1385.8	1695.3	1960.1	2307.4	2747.5	2517.1	2035.7	2118.3
1351.4	77.5°	1131.3	990.4	1158.9	1451.1	1640.3	1987.6	2458.7	2235.2	1764.1	1757.2
935.3	80°	784.0	701.5	942.2	1169.2	1268.9	1671.2	2145.8	1918.8	1437.4	1341.1
577.7	82.5°	471.1	457.4	704.9	873.4	897.5	1289.5	1777.8	1609.3	1176.0	1024.7
343.9	85°	257.9	271.7	450.5	512.4	522.7	900.9	1392.7	1244.8	904.4	760.0
123.8	87.5°	72.2	92.8	165.1	202.9	251.0	467.7	828.7	739.3	453.9	316.4
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°
8476.5
9098.9
9494.3
9607.8
9545.9
9401.5
9202.0
8865.0
8497.1
8263.3
8070.7
7857.5
7620.2
7272.9
6822.4
6251.6
5601.7
4951.8
4446.3
4109.3
3789.5
3545.3
3222.1
2943.6
2682.2
2475.9
2314.3
2190.5
2097.6
1977.3
2187.0
1619.6
1282.6
1031.6
766.8
316.4
0.0

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