

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: P849026

Luminaire Tested: **GLAN-SB5D-840-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849026  
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-SB5D-840-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45295 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

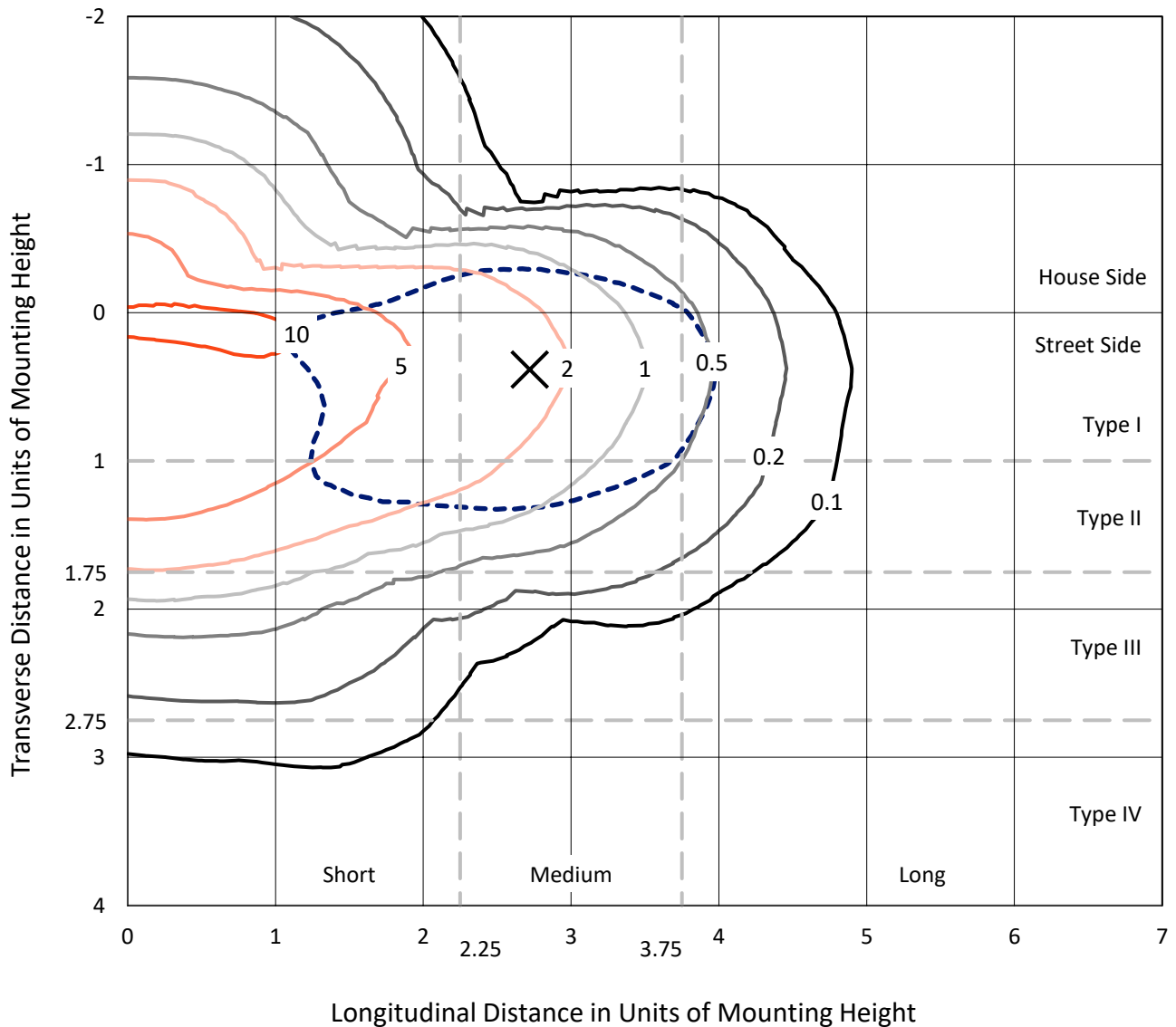
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

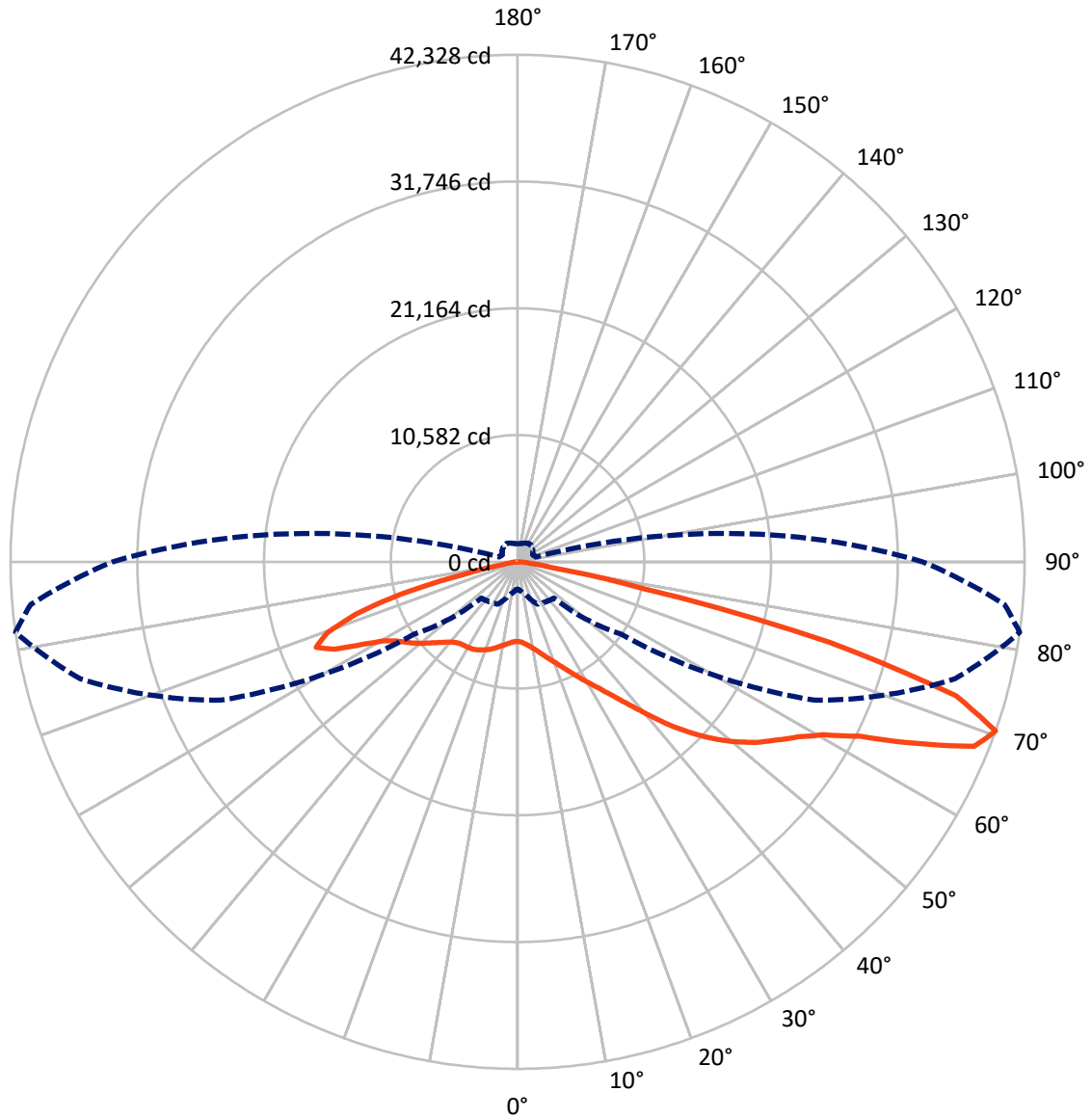
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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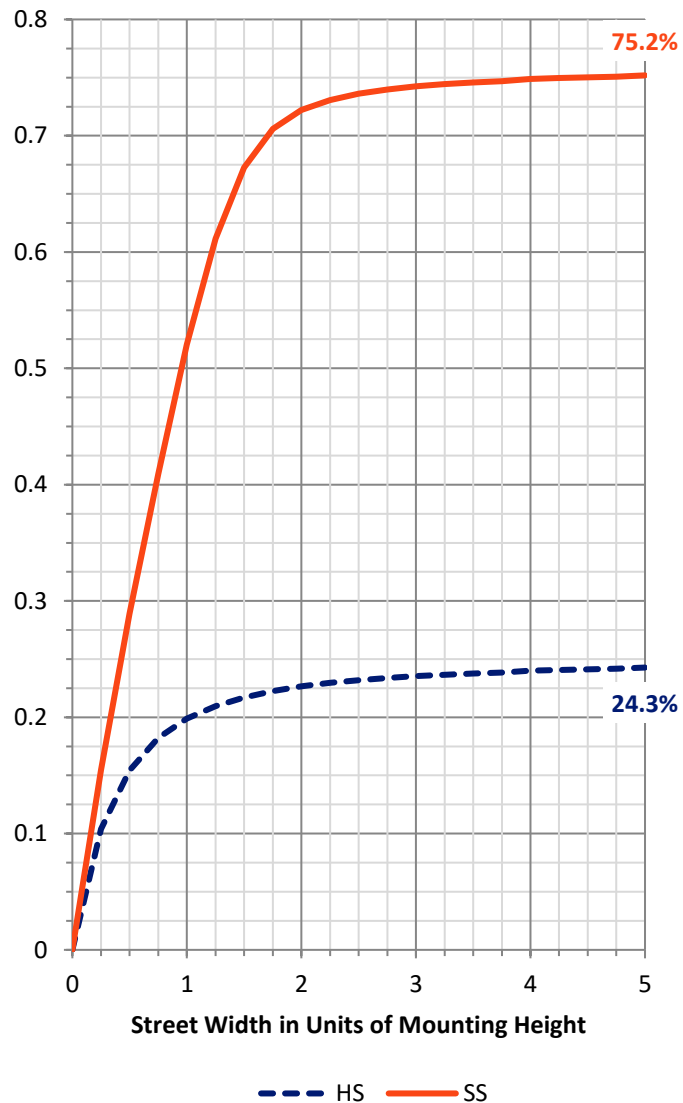
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11166.3	0.0	11166.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	34128.7	0.0	34128.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	45295.0	0.0	45295.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.0	1.4
10°-20°	1801.4	4.0
20°-30°	3013.6	6.7
30°-40°	4708.1	10.4
40°-50°	7498.1	16.6
50°-60°	10434.6	23.0
60°-70°	10915.0	24.1
70°-80°	5704.8	12.6
80°-90°	592.4	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°	45295.0	100.0
0°-180°	45295.0	100.0

**Coefficient of Utilization**

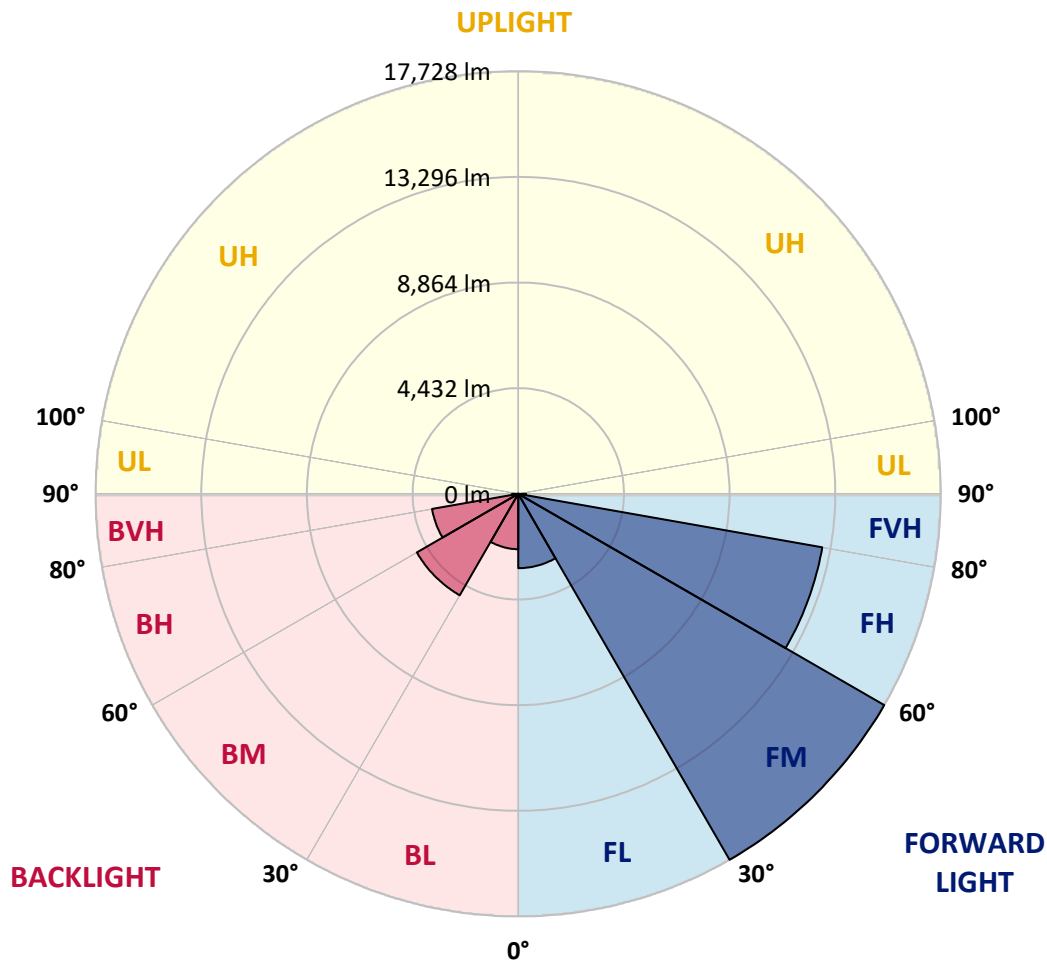


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.1	6.9			
FM (30°-60°)	17728.0	39.1			
FH (60°-80°)	12950.0	28.6			G5
FVH (80°-90°)	331.6	0.7			G3/500
BL (0°-30°)	2323.0	5.1	B3/2500		
BM (30°-60°)	4912.7	10.8	B3/5000		
BH (60°-80°)	3669.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	260.8	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°	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8
2.5°	6799.4	6837.9	6825.9	6813.9	6813.9	6797.0	6794.6	6770.6	6751.4	6720.1
5°	6886.0	6926.8	6922.0	6931.6	6962.9	6970.1	6977.3	6962.9	6924.4	6886.0
7.5°	6809.1	6854.7	6869.1	6926.8	7023.0	7109.5	7174.4	7200.8	7164.8	7109.5
10°	6549.5	6600.0	6650.4	6787.4	6958.1	7162.4	7335.4	7438.8	7431.6	7378.7
12.5°	6023.1	6076.0	6184.2	6450.9	6763.4	7123.9	7446.0	7662.3	7736.8	7698.3
15°	5602.5	5648.2	5729.9	6003.9	6410.1	6958.1	7486.8	7907.4	8097.3	8075.7
17.5°	5590.5	5609.7	5660.2	5790.0	6102.4	6698.5	7443.6	8147.8	8510.7	8508.3
20°	5802.0	5809.2	5838.1	5864.5	6042.3	6501.4	7333.0	8347.3	8974.6	8974.6
22.5°	6095.2	6090.4	6119.3	6095.2	6181.7	6484.6	7263.3	8522.7	9491.3	9529.8
25°	6535.1	6511.0	6503.8	6448.5	6465.4	6640.8	7340.2	8722.2	10104.2	10183.5
27.5°	7121.5	7083.1	7056.6	6929.2	6886.0	6962.9	7575.8	8962.6	10786.8	10923.8
30°	7885.8	7816.1	7777.7	7556.5	7400.3	7412.3	7931.5	9282.2	11500.6	11721.8
32.5°	8928.9	8820.8	8717.4	8354.5	8068.5	7974.7	8390.5	9724.5	12274.6	12627.9
35°	10097.0	10010.5	9899.9	9339.9	8900.1	8683.8	9010.6	10342.2	13180.7	13740.7
37.5°	11221.8	11147.3	11200.2	10445.5	9878.3	9563.4	9823.0	11171.4	14298.3	15125.1
40°	12385.1	12327.4	12334.7	11613.6	10952.7	10599.3	10808.4	12212.1	15579.4	16771.5
42.5°	13649.4	13606.1	13461.9	12822.6	12079.9	11750.6	11942.9	13413.8	16954.1	18646.2
45°	15065.0	15038.6	14904.0	14170.9	13320.1	12949.9	13209.5	14740.5	18336.1	20410.3
47.5°	16288.4	16310.0	16293.2	15675.5	14793.4	14250.2	14560.3	16124.9	19622.0	22068.7
50°	16877.2	16990.2	17156.0	16963.8	16415.8	15863.0	15923.1	17461.3	20847.8	23623.8
52.5°	16569.6	16783.5	17235.4	17543.0	17754.5	17639.1	17478.1	18788.0	22001.4	25027.4
55°	15423.1	15723.6	16473.4	17216.1	18295.3	19134.1	19345.6	20258.9	23126.3	26262.8
57.5°	13334.5	13822.4	14495.4	15997.6	17814.6	19857.5	21523.2	22299.5	24318.4	27582.3
60°	9753.3	10407.1	11243.5	13478.7	16132.2	19470.6	23376.2	25433.6	26012.9	29291.2
62.5°	6241.8	6645.6	7414.7	9520.2	12570.2	17487.7	23943.5	29351.3	28885.0	32093.7
65°	4273.4	4533.0	5237.2	6419.7	8126.2	13017.2	22424.5	32288.3	33446.8	36535.3
67.5°	3105.3	3302.4	3903.3	4939.2	5294.9	7703.2	17401.2	32153.7	37881.2	41111.5
70°	2264.1	2403.5	2908.2	3903.3	4073.9	4285.4	10541.7	27332.4	37785.1	42327.7
72.5°	1677.6	1773.8	2112.7	3028.4	3297.6	2893.8	5218.0	19864.8	32468.6	38285.0
75°	1213.8	1285.9	1535.8	2317.0	2639.0	2204.0	2603.0	11608.8	22648.0	26931.0
77.5°	927.7	983.0	1146.5	1696.9	2112.7	1653.6	1615.1	5340.5	10738.7	10791.6
80°	745.1	781.1	870.1	1194.5	1619.9	1237.8	1052.7	2155.9	3393.7	2872.2
82.5°	548.0	608.1	735.5	838.8	1158.5	853.2	641.7	1088.8	1290.7	1110.4
85°	312.5	353.3	444.6	600.9	740.3	521.6	367.7	483.1	600.9	492.7
87.5°	110.6	144.2	156.2	235.5	322.1	216.3	141.8	139.4	197.1	146.6
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°
6640.8	0°	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8	6640.8
6712.9	2.5°	6688.9	6676.9	6628.8	6563.9	6496.6	6431.7	6410.1	6364.4	6333.2	6316.3
6869.1	5°	6823.5	6785.0	6672.1	6527.8	6376.4	6213.0	6097.6	5991.9	5915.0	5842.9
7083.1	7.5°	7015.8	6948.5	6753.8	6501.4	6232.2	5960.6	5758.7	5604.9	5501.6	5434.3
7333.0	10°	7239.3	7135.9	6837.9	6460.6	6044.8	5655.4	5417.4	5285.3	5220.4	5184.3
7619.0	12.5°	7496.5	7349.8	6924.4	6366.8	5758.7	5314.1	5150.7	5112.2	5114.6	5117.0
7979.6	15°	7813.7	7609.4	6994.1	6162.5	5386.2	5052.1	5023.3	5085.8	5150.7	5181.9
8388.1	17.5°	8171.8	7883.4	7006.1	5826.0	5020.9	4883.9	4975.2	5109.8	5208.3	5251.6
8844.8	20°	8556.4	8162.2	6919.6	5350.1	4720.4	4746.9	4910.3	5083.4	5191.5	5246.8
9366.4	22.5°	8996.2	8460.2	6712.9	4850.2	4475.3	4597.9	4790.1	4958.4	5071.3	5126.6
9979.2	25°	9498.6	8794.3	6388.4	4429.6	4263.8	4429.6	4621.9	4761.3	4852.6	4903.1
10664.2	27.5°	10056.2	9142.8	5955.8	4095.5	4078.7	4256.6	4415.2	4523.3	4571.4	4609.9
11392.5	30°	10616.2	9460.1	5431.9	3843.2	3917.7	4085.9	4198.9	4246.9	4261.4	4268.6
12204.9	32.5°	11221.8	9734.1	4881.5	3634.1	3763.8	3920.1	3987.4	4009.0	3941.7	3896.0
13190.3	35°	11954.9	10027.3	4343.1	3468.2	3612.4	3747.0	3768.7	3749.4	3670.1	3576.4
14425.7	37.5°	12861.0	10392.6	3912.9	3350.5	3470.6	3559.6	3533.1	3528.3	3535.5	3425.0
15911.0	40°	13971.4	10868.5	3598.0	3259.1	3355.3	3374.5	3300.0	3340.8	3376.9	3208.6
17540.6	42.5°	15204.4	11443.0	3398.5	3196.6	3259.1	3213.5	3098.1	3143.8	3138.9	2917.8
19177.4	45°	16461.4	12067.9	3328.8	3151.0	3170.2	3078.9	2951.5	2963.5	2862.5	2663.1
20746.8	47.5°	17711.2	12738.4	3372.1	3112.5	3059.6	2956.3	2857.7	2804.9	2655.8	2506.8
22251.4	50°	18937.0	13442.7	3530.7	3035.6	2908.2	2848.1	2776.0	2682.3	2523.7	2396.3
23674.3	52.5°	20073.9	14151.7	3708.6	2908.2	2718.3	2754.4	2708.7	2600.6	2444.3	2314.6
25020.2	55°	21150.6	14860.7	3778.3	2732.8	2540.5	2672.7	2646.2	2446.7	2259.3	2153.5
26428.7	57.5°	22323.5	15713.9	3701.4	2509.2	2396.3	2578.9	2478.0	2256.9	2148.7	2069.4
28262.5	60°	23948.3	17052.7	3535.5	2232.8	2259.3	2439.5	2266.5	2175.1	2057.4	1968.4
31012.1	62.5°	26647.4	19549.9	3268.7	1958.8	2098.2	2232.8	2165.5	2074.2	1954.0	1867.5
35713.3	65°	30637.2	23020.5	2766.4	1744.9	1918.0	2030.9	2057.4	1966.0	1841.1	1749.7
39832.9	67.5°	34002.0	25198.1	2093.4	1567.1	1732.9	1867.5	1942.0	1853.1	1720.9	1632.0
40796.7	70°	33817.0	23616.6	1598.3	1391.6	1569.5	1706.5	1802.6	1732.9	1591.1	1507.0
37056.8	72.5°	30036.3	19756.6	1293.1	1213.8	1403.6	1538.2	1653.6	1600.7	1456.5	1374.8
27147.3	75°	22066.3	14024.3	1033.5	1033.5	1196.9	1362.8	1490.2	1456.5	1324.3	1266.6
11397.3	77.5°	9301.5	5883.7	810.0	858.0	995.0	1170.5	1329.1	1341.1	1225.8	1297.9
3014.0	80°	2473.2	1622.3	617.7	675.4	781.1	966.2	1156.1	1151.3	1026.3	959.0
1120.0	82.5°	942.2	639.3	439.8	475.9	564.8	740.3	915.7	944.6	819.6	709.0
439.8	85°	362.9	274.0	271.6	286.0	329.3	490.3	692.2	716.2	617.7	524.0
122.6	87.5°	93.7	81.7	100.9	96.1	151.4	262.0	396.6	411.0	377.3	218.7
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°
6640.8
6335.6
5871.7
5448.7
5193.9
5121.8
5179.5
5261.2
5261.2
5141.0
4917.5
4624.3
4285.4
3910.5
3581.2
3432.2
3213.5
2915.4
2670.3
2506.8
2386.7
2317.0
2143.9
2062.2
1963.6
1867.5
1754.5
1634.4
1514.2
1374.8
1249.8
1177.7
891.7
709.0
540.8
312.5
0.0

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