

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: P849028

Luminaire Tested: **GLAN-SB5D-840-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45745 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

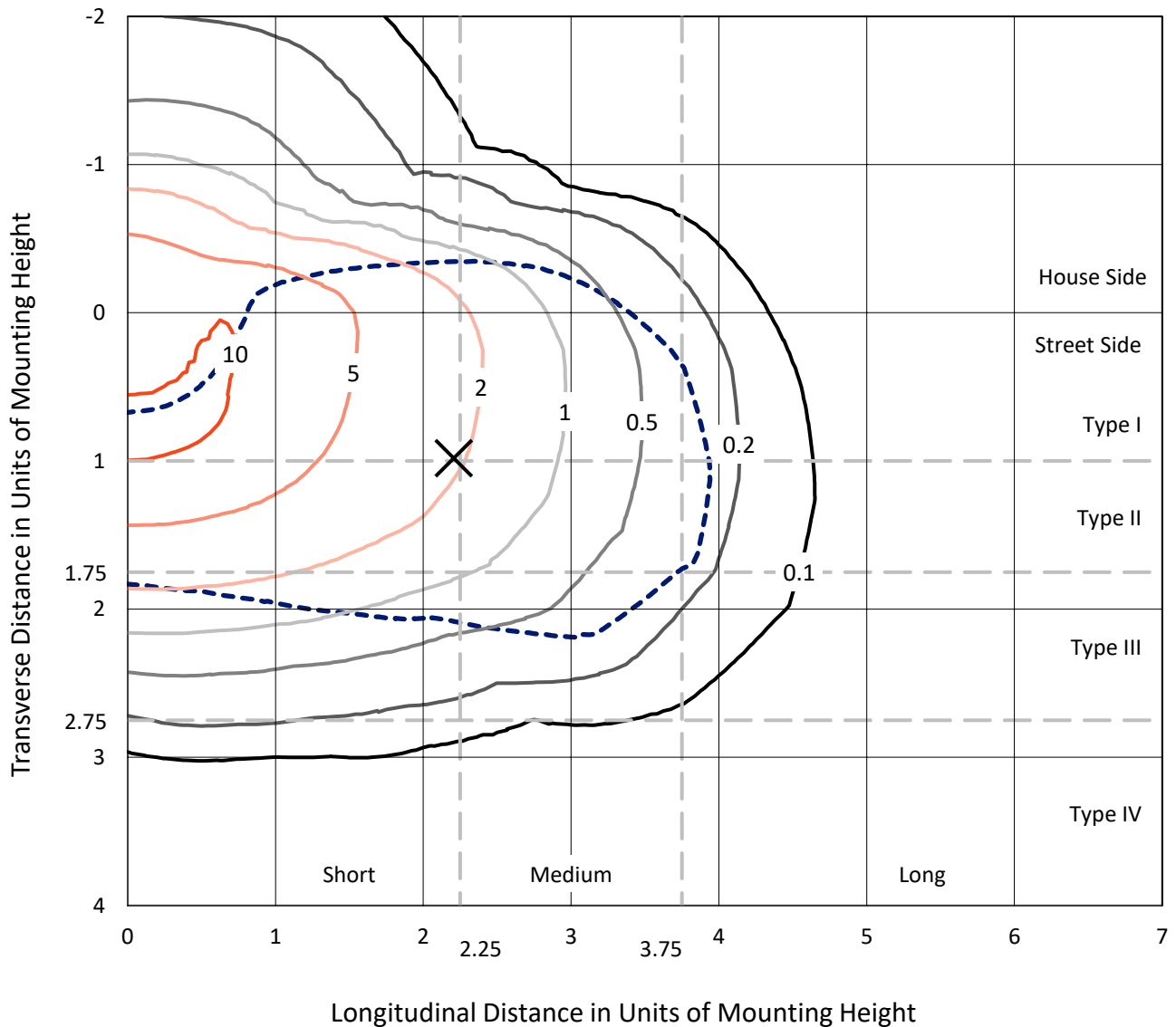
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

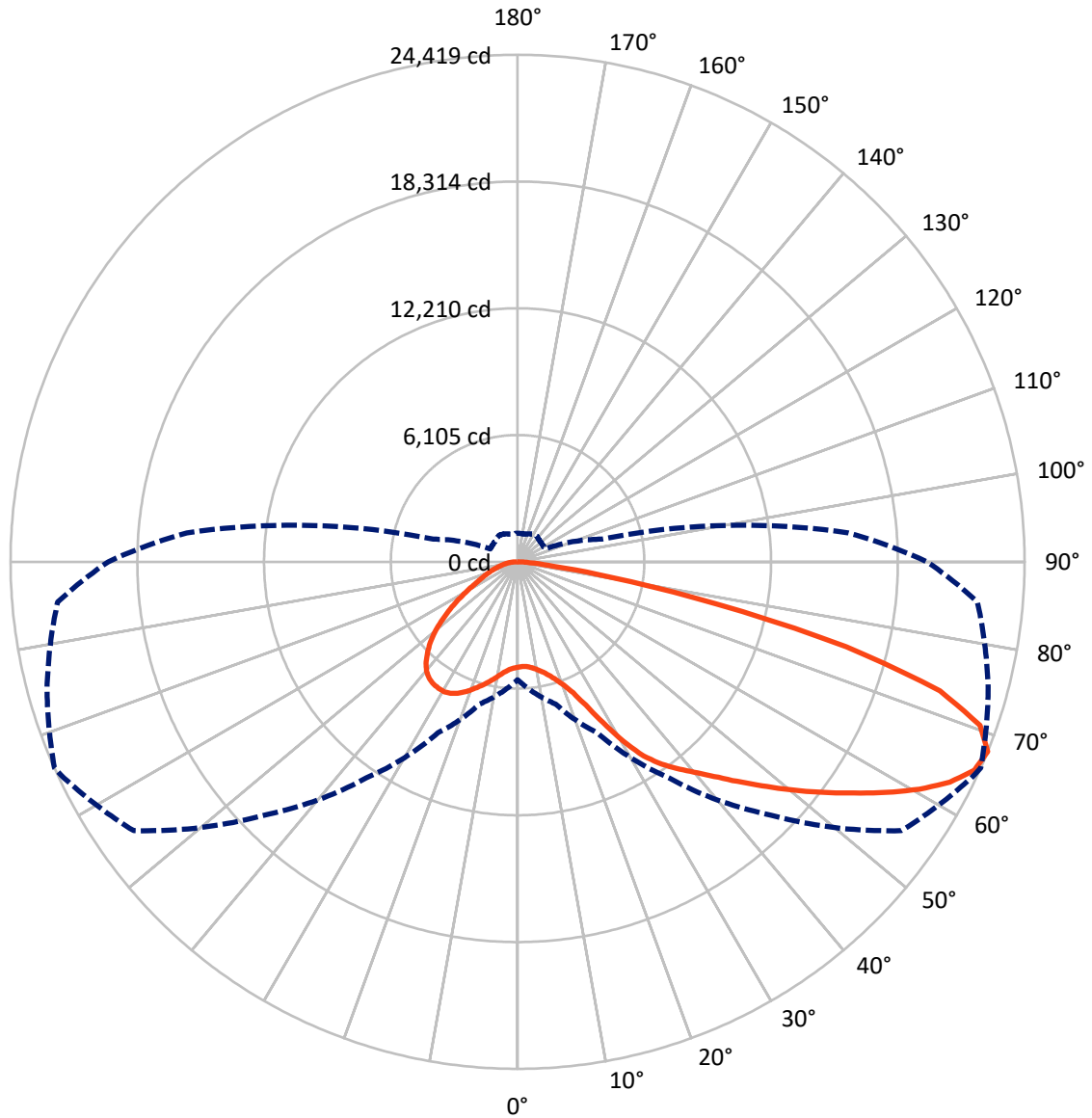
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11374.4	0.0	11374.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	34370.6	0.0	34370.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	45745.0	0.0	45745.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.0	1.1
10°-20°	1662.0	3.6
20°-30°	3203.4	7.0
30°-40°	5616.7	12.3
40°-50°	8350.2	18.3
50°-60°	10584.7	23.1
60°-70°	10356.8	22.6
70°-80°	4940.3	10.8
80°-90°	528.0	1.2
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°	45745.0	100.0
0°-180°	45745.0	100.0

**Coefficient of Utilization**

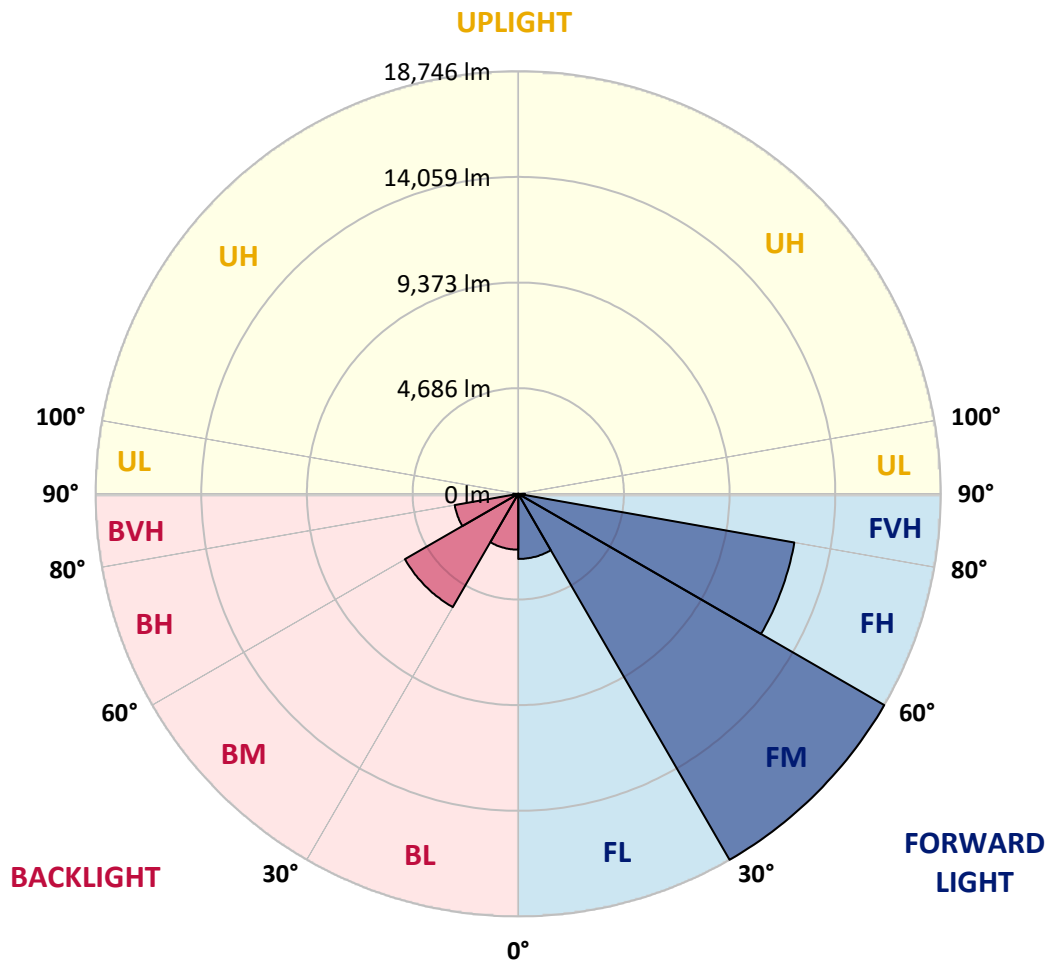


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.6	6.3			
FM (30°-60°)	18745.9	41.0			
FH (60°-80°)	12434.7	27.2			G5
FVH (80°-90°)	299.3	0.7			G3/500
BL (0°-30°)	2477.7	5.4	B3/2500		
BM (30°-60°)	5805.6	12.7	B4/8500		
BH (60°-80°)	2862.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	228.6	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7
2.5°	5020.8	5049.7	5042.5	5030.5	5028.1	5032.9	5040.1	5047.3	5044.9	5056.9
5°	5006.4	5035.3	5032.9	5032.9	5042.5	5061.7	5073.7	5085.7	5073.7	5088.1
7.5°	5016.0	5037.7	5047.3	5056.9	5080.9	5117.0	5145.8	5172.3	5157.8	5174.7
10°	5138.6	5155.4	5165.1	5165.1	5181.9	5222.7	5251.6	5299.7	5287.6	5314.1
12.5°	5362.1	5379.0	5379.0	5369.4	5381.4	5407.8	5417.4	5470.3	5448.7	5491.9
15°	5636.1	5669.8	5643.3	5626.5	5631.3	5657.8	5655.4	5696.2	5674.6	5710.6
17.5°	5939.0	5982.2	5939.0	5936.6	5927.0	5955.8	5958.2	5994.3	5955.8	5982.2
20°	6297.1	6357.2	6321.1	6333.1	6311.5	6323.5	6335.5	6388.4	6328.3	6347.6
22.5°	6801.8	6873.9	6835.5	6881.1	6866.7	6857.1	6854.7	6948.4	6854.7	6861.9
25°	7537.3	7623.8	7556.5	7619.0	7619.0	7650.2	7686.3	7806.5	7650.2	7604.6
27.5°	8623.7	8710.2	8578.0	8616.4	8604.4	8681.3	8642.9	8940.9	8772.7	8698.2
30°	9931.1	10085.0	9835.0	9825.4	9813.4	9935.9	9991.2	10188.3	10017.7	9943.2
32.5°	11344.4	11505.4	11207.4	11120.9	11075.2	11149.7	11104.0	11262.7	11144.9	11029.5
35°	12839.3	12998.0	12714.4	12546.1	12363.4	12207.2	12043.8	12084.6	11974.1	11798.6
37.5°	14252.6	14543.4	14243.0	14062.7	13726.2	13421.0	12964.3	12774.4	12671.1	12510.1
40°	15692.3	15858.1	15629.8	15475.9	15110.6	14632.3	13901.7	13500.3	13360.9	13204.7
42.5°	16752.2	16910.8	16788.2	16682.5	16396.5	15841.3	14896.7	14394.4	14192.5	14017.0
45°	17593.4	17711.2	17634.3	17672.7	17550.1	17011.8	15927.8	15353.4	15144.3	14930.4
47.5°	17932.3	18057.3	18179.8	18408.2	18617.3	18220.7	17035.8	16391.7	16170.5	15951.8
50°	17893.8	18021.2	18376.9	18862.4	19511.4	19379.2	18203.9	17497.3	17293.0	17043.0
52.5°	17586.2	17730.4	18187.1	18994.6	20028.1	20246.8	19393.6	18638.9	18446.6	18148.6
55°	16778.6	16865.1	17550.1	18694.2	20150.7	20852.5	20559.3	19855.1	19662.8	19247.0
57.5°	15281.3	15406.2	16403.7	17884.2	19843.0	21263.5	21583.2	21133.7	20948.6	20350.2
60°	13327.2	13526.7	14668.4	16523.9	19059.5	21261.1	22513.3	22390.7	22236.9	21436.5
62.5°	11116.0	11346.8	12445.2	14601.1	17689.5	20657.8	23094.9	23443.4	23364.1	22438.8
65°	8537.1	8695.8	9789.3	12113.5	15557.7	19362.4	23162.2	24162.1	24176.5	23200.7
67.5°	5684.2	6140.9	7090.2	9089.9	12702.3	17244.9	22571.0	24279.9	24419.3	23462.7
70°	2773.6	3374.5	4304.6	5907.7	9089.9	13997.8	21025.6	23313.7	23623.7	22698.4
72.5°	1151.3	1345.9	1853.1	2915.4	5217.9	9445.6	17920.3	20693.9	21268.3	20112.2
75°	776.3	841.2	1059.9	1495.0	2377.0	4657.9	12923.5	15430.3	16355.6	15189.9
77.5°	598.5	639.3	771.5	1045.5	1413.2	1761.7	6917.2	9299.0	9777.3	9051.5
80°	471.1	502.3	576.8	761.9	1002.2	942.2	2357.8	4213.3	4489.7	3766.2
82.5°	408.6	420.6	413.4	516.7	665.8	550.4	773.9	1555.0	1716.1	1245.0
85°	295.6	329.3	343.7	319.7	353.3	278.8	317.3	550.4	605.7	540.8
87.5°	120.2	177.9	218.7	206.7	129.8	79.3	98.5	161.0	185.1	201.9
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°
5073.7	0°	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7	5073.7
5076.1	2.5°	5078.5	5095.4	5107.4	5121.8	5131.4	5145.8	5174.7	5191.5	5193.9	5205.9
5114.6	5°	5124.2	5148.2	5174.7	5213.1	5256.4	5292.4	5347.7	5386.2	5400.6	5412.6
5208.3	7.5°	5222.7	5256.4	5304.5	5371.8	5434.2	5482.3	5549.6	5595.3	5640.9	5657.8
5357.3	10°	5369.4	5417.4	5487.1	5578.5	5645.8	5708.2	5777.9	5816.4	5862.1	5881.3
5535.2	12.5°	5552.0	5602.5	5693.8	5821.2	5883.7	5927.0	5951.0	5941.4	5951.0	5967.8
5749.1	15°	5761.1	5816.4	5919.7	6056.7	6100.0	6061.6	6008.7	5960.6	5953.4	5958.2
6008.7	17.5°	6008.7	6049.5	6169.7	6285.1	6253.8	6095.2	5979.8	5902.9	5864.5	5852.4
6340.4	20°	6354.8	6354.8	6453.3	6525.4	6316.3	6047.1	5866.9	5741.9	5662.6	5628.9
6792.2	22.5°	6775.4	6736.9	6799.4	6748.9	6304.3	5912.5	5662.6	5446.3	5326.1	5278.0
7424.3	25°	7309.0	7263.3	7246.5	6934.0	6217.8	5698.6	5292.4	5030.5	4924.7	4898.3
8335.2	27.5°	8114.1	7998.7	7780.0	7035.0	6059.1	5362.1	4859.8	4617.1	4557.0	4559.4
9505.7	30°	9186.1	8955.3	8419.4	7051.8	5799.6	4886.3	4417.6	4244.5	4215.7	4227.7
10488.7	32.5°	10178.7	9960.0	9073.1	6974.9	5400.6	4420.0	4021.0	3905.6	3862.4	3876.8
11238.6	35°	10957.4	10897.3	9678.8	6866.7	4910.3	3982.5	3665.3	3566.7	3482.6	3463.4
11945.2	37.5°	11692.9	11668.8	10133.0	6715.3	4424.8	3672.5	3379.3	3249.5	3126.9	3059.6
12726.4	40°	12500.4	12476.4	10431.1	6482.2	3994.6	3403.3	3122.1	2951.5	2800.0	2677.5
13610.9	42.5°	13409.0	13267.2	10572.9	6148.1	3629.2	3175.0	2913.0	2682.3	2482.8	2369.8
14610.7	45°	14401.6	14081.9	10570.5	5722.7	3321.6	2965.9	2689.5	2362.6	2177.5	2071.8
15637.0	47.5°	15454.3	14860.7	10440.7	5251.6	3023.6	2735.1	2343.4	2093.4	1970.8	1906.0
16752.2	50°	16540.7	15588.9	10219.6	4710.8	2718.3	2473.2	2127.1	1956.4	1862.7	1802.6
17857.8	52.5°	17562.2	16249.9	9952.8	4097.9	2408.3	2218.4	2030.9	1898.7	1800.2	1732.9
18929.7	55°	18511.5	16819.5	9575.4	3470.6	2155.9	2047.8	1985.3	1874.7	1761.7	1682.4
20018.5	57.5°	19355.1	17189.6	8924.1	2881.8	1975.7	1930.0	1937.2	1833.8	1704.1	1636.8
21090.4	60°	20057.0	17461.2	7960.3	2336.2	1829.0	1814.6	1862.7	1756.9	1605.5	1528.6
21996.6	62.5°	20477.6	17456.4	6777.8	1913.2	1704.1	1708.9	1764.1	1660.8	1507.0	1434.9
22470.0	65°	20441.5	17028.6	5479.9	1636.8	1583.9	1588.7	1660.8	1555.0	1425.3	1382.0
22232.1	67.5°	19718.1	15985.5	4203.7	1456.5	1451.7	1473.3	1557.4	1482.9	1374.8	1370.0
20814.0	70°	17759.2	13820.0	3028.4	1312.3	1314.7	1345.9	1456.5	1437.3	1348.3	1358.0
17499.7	72.5°	14240.6	10536.8	2033.3	1160.9	1163.3	1213.8	1360.4	1401.2	1321.9	1449.3
12416.3	75°	9484.1	6571.1	1307.5	999.8	1002.2	1067.1	1276.2	1331.5	1249.8	1444.5
6460.5	77.5°	4557.0	2953.9	947.0	841.2	841.2	901.3	1103.2	1192.1	1064.7	1122.4
2076.6	80°	1574.3	1110.4	745.1	677.8	663.4	704.2	930.1	1033.5	918.1	846.0
677.8	82.5°	620.1	576.8	598.5	526.4	478.3	504.7	723.4	853.2	675.4	610.5
382.2	85°	355.7	374.9	423.0	348.5	276.4	310.0	531.2	612.9	509.5	449.4
125.0	87.5°	96.1	132.2	194.7	180.3	125.0	132.2	252.4	338.9	293.2	225.9
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°  
5073.7  
5203.5  
5410.2  
5660.2  
5890.9  
5972.6  
5975.0  
5869.3  
5621.7  
5270.8  
4903.1  
4566.6  
4268.6  
3896.0  
3477.8  
3062.0  
2689.5  
2377.0  
2067.0  
1891.5  
1781.0  
1704.1  
1651.2  
1593.5  
1495.0  
1413.2  
1379.6  
**1377.2**  
1355.6  
1468.5  
1456.5  
1028.7  
793.1  
608.1  
459.1  
233.1  
0.0

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