

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: P849023

Luminaire Tested: **GLAN-SB5D-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45314 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

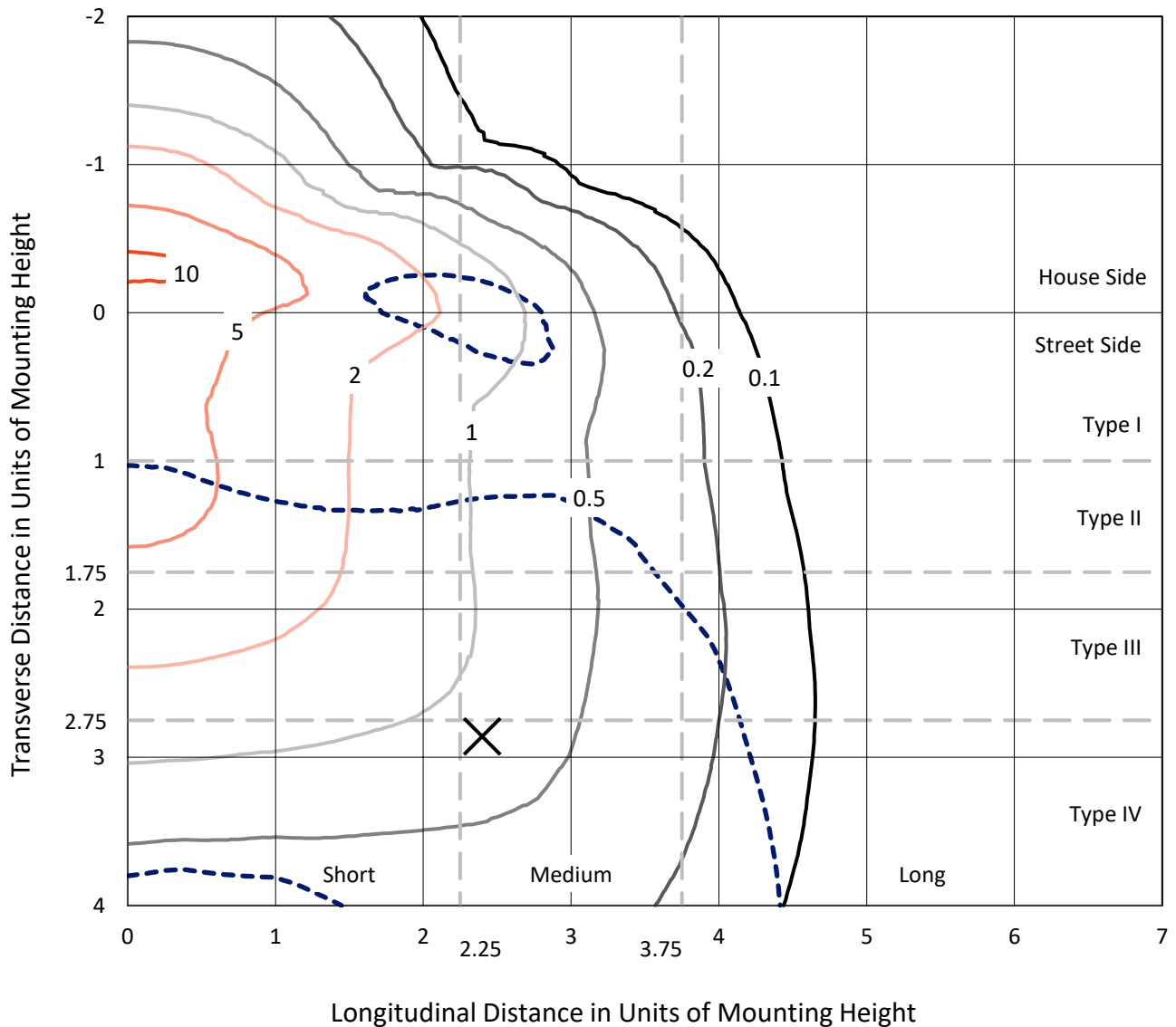
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

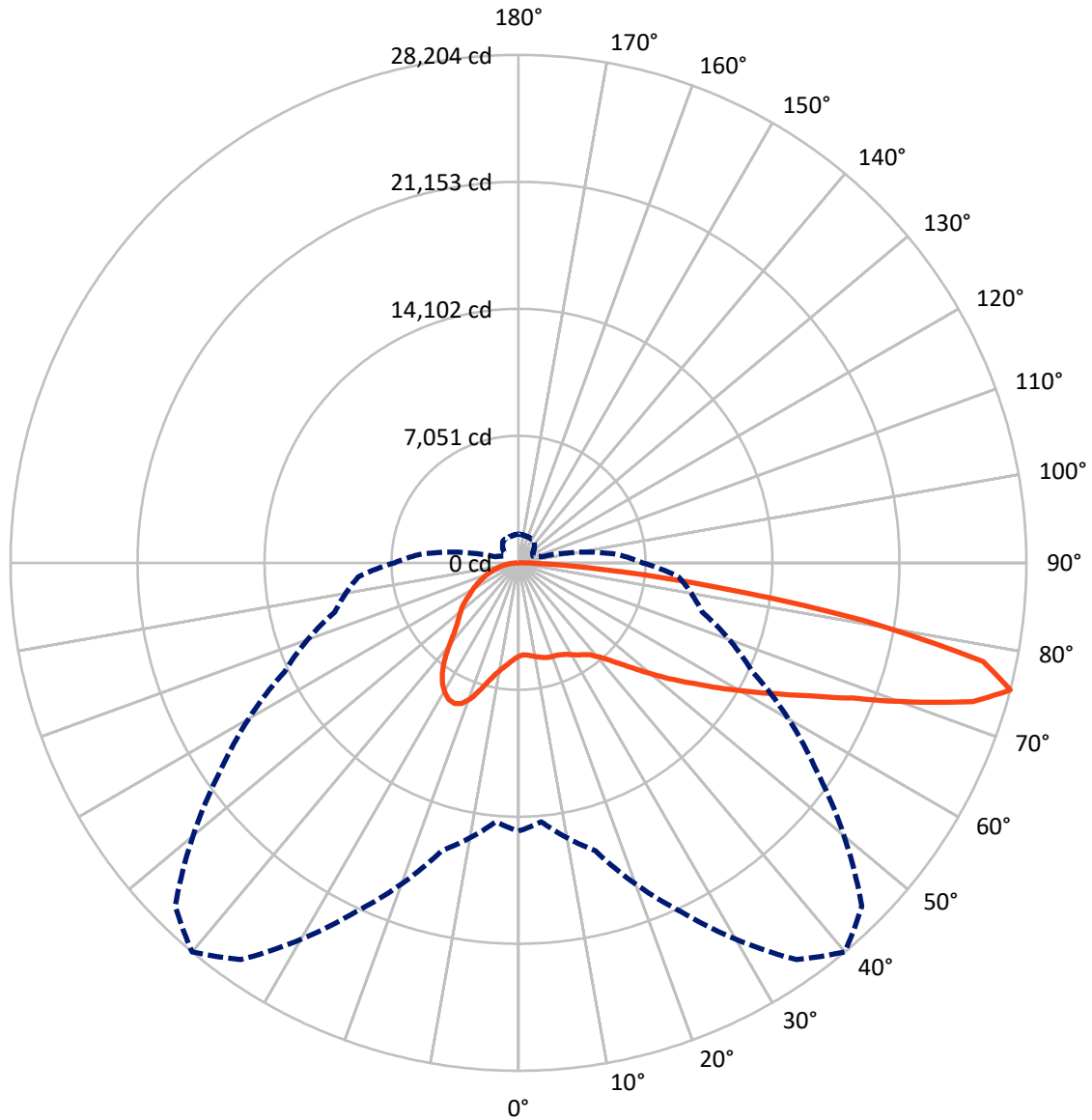
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14039.8	0.0	14039.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	31274.2	0.0	31274.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	45314.0	0.0	45314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	1.1
10°-20°	1736.6	3.8
20°-30°	3170.9	7.0
30°-40°	4497.2	9.9
40°-50°	6072.5	13.4
50°-60°	8169.2	18.0
60°-70°	10368.6	22.9
70°-80°	9410.1	20.8
80°-90°	1371.7	3.0
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°	45314.0	100.0
0°-180°	45314.0	100.0

Coefficient of Utilization

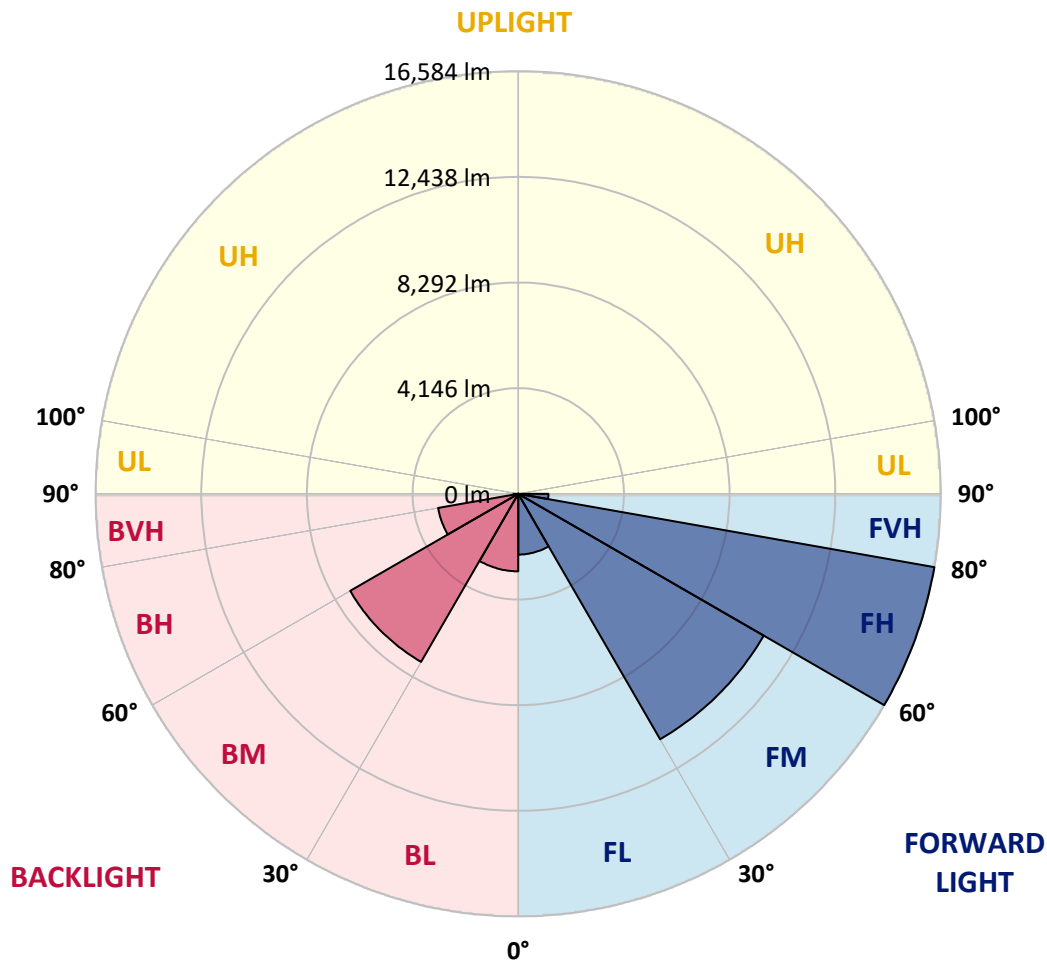


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2383.6	5.3			
FM (30°-60°)	11123.6	24.5			
FH (60°-80°)	16584.2	36.6			G5
FVH (80°-90°)	1182.8	2.6			G5
BL (0°-30°)	3041.1	6.7	B4/5000		
BM (30°-60°)	7615.3	16.8	B4/8500		
BH (60°-80°)	3194.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	188.8	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7
2.5°	5102.4	5131.2	5124.0	5114.4	5114.4	5116.8	5114.4	5131.2	5148.1	5164.9
5°	5155.3	5184.1	5169.7	5157.7	5148.1	5145.7	5138.5	5136.1	5145.7	5167.3
7.5°	5258.6	5287.5	5265.8	5244.2	5225.0	5215.4	5205.8	5191.3	5184.1	5196.1
10°	5374.0	5402.8	5376.4	5337.9	5306.7	5294.7	5285.1	5270.6	5261.0	5268.2
12.5°	5489.4	5518.2	5482.1	5429.3	5388.4	5381.2	5369.2	5364.4	5362.0	5359.6
15°	5597.5	5621.5	5575.9	5513.4	5470.1	5458.1	5446.1	5453.3	5465.3	5479.7
17.5°	5681.6	5705.7	5638.4	5556.6	5515.8	5511.0	5503.8	5527.8	5561.5	5597.5
20°	5758.5	5782.6	5696.0	5585.5	5537.4	5537.4	5539.8	5590.3	5638.4	5691.2
22.5°	5866.7	5885.9	5780.2	5628.7	5559.0	5563.9	5583.1	5633.6	5693.6	5765.7
25°	6027.7	6042.1	5912.3	5710.5	5631.2	5645.6	5662.4	5686.4	5744.1	5828.2
27.5°	6287.3	6299.3	6128.7	5854.7	5734.5	5758.5	5782.6	5765.7	5792.2	5864.3
30°	6652.6	6659.8	6443.5	6080.6	5909.9	5922.0	5926.8	5857.1	5806.6	5864.3
32.5°	7085.2	7082.8	6825.6	6354.6	6109.4	6097.4	6056.6	5919.6	5801.8	5852.3
35°	7755.8	7729.3	7397.6	6739.1	6335.3	6260.8	6164.7	5989.3	5825.8	5840.2
37.5°	8866.1	8784.4	8325.4	7368.8	6671.8	6482.0	6340.2	6102.2	5878.7	5835.4
40°	10118.3	10014.9	9510.2	8231.6	7176.5	6871.3	6643.0	6263.2	5965.2	5857.1
42.5°	11603.6	11457.0	10913.8	9248.3	7815.8	7373.6	7029.9	6467.5	6092.6	5926.8
45°	13427.8	13233.1	12464.0	10394.7	8621.0	8032.1	7573.1	6777.6	6287.3	6061.4
47.5°	15271.2	15319.2	14225.7	11706.9	9587.1	8844.5	8253.3	7243.8	6570.9	6277.7
50°	17229.9	17263.6	15977.8	13161.0	10683.1	9762.6	9017.5	7765.4	6965.0	6585.3
52.5°	18758.5	18763.3	17568.8	14682.3	11824.7	10772.0	9841.9	8361.4	7421.7	6993.9
55°	19715.0	19703.0	18684.0	16122.0	13136.9	11831.9	10755.2	9039.2	7979.3	7474.6
57.5°	20409.6	20373.6	19453.1	17359.7	14535.7	13084.1	11788.6	9808.2	8637.8	8046.6
60°	20674.0	20652.4	19974.6	18429.2	16006.6	14468.4	12980.7	10668.7	9385.3	8721.9
62.5°	20774.9	20815.8	20486.5	19465.1	17580.8	16001.8	14290.6	11697.3	10226.4	9486.2
65°	21130.6	21205.1	21137.8	20820.6	19359.3	17797.1	16028.2	12920.6	11144.5	10305.8
67.5°	21834.8	21909.3	21938.2	22442.9	21532.0	20034.7	18196.1	14444.4	12218.9	11156.6
70°	21818.0	21796.4	22305.9	23733.5	24252.6	23132.7	21118.6	16319.0	13499.9	11863.2
72.5°	19859.2	19686.2	20890.3	23719.1	26516.6	26367.6	24687.7	18736.9	14605.4	11949.7
75°	14898.6	14437.2	16564.2	21375.8	26894.0	28203.8	26956.5	20236.6	14343.5	10558.1
77.5°	6371.4	5907.5	8414.3	15823.9	24070.0	26365.2	24875.1	17655.3	11449.8	6981.9
80°	1668.0	1665.6	2542.8	7174.1	16369.5	19469.9	17080.9	11401.7	6542.0	2494.7
82.5°	689.8	673.0	934.9	2790.3	7998.5	10925.8	8916.6	5085.6	2362.5	675.4
85°	257.2	254.8	454.2	963.8	2821.6	4506.4	3261.4	1300.2	588.8	329.3
87.5°	72.1	69.7	98.5	334.1	687.4	1043.1	557.6	213.9	165.8	129.8
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°
5181.7	0°	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7	5181.7
5191.3	2.5°	5198.5	5210.6	5232.2	5249.0	5270.6	5294.7	5328.3	5350.0	5371.6	5386.0
5203.3	5°	5220.2	5246.6	5301.9	5357.2	5422.1	5482.1	5551.8	5602.3	5643.2	5655.2
5246.6	7.5°	5268.2	5311.5	5405.2	5499.0	5602.3	5700.8	5801.8	5888.3	5958.0	5984.4
5323.5	10°	5352.4	5410.0	5542.2	5674.4	5811.4	5962.8	6092.6	6217.6	6316.1	6357.0
5414.8	12.5°	5458.1	5530.2	5703.3	5885.9	6075.8	6284.9	6453.1	6606.9	6729.5	6784.8
5542.2	15°	5595.1	5688.8	5909.9	6155.1	6433.9	6724.7	6938.6	7109.2	7246.2	7313.5
5674.4	17.5°	5744.1	5869.1	6147.9	6518.0	6917.0	7299.1	7549.1	7674.0	7815.8	7880.7
5797.0	20°	5888.3	6042.1	6441.1	6979.5	7510.6	7916.8	8118.7	8152.3	8161.9	8169.1
5912.3	22.5°	6037.3	6244.0	6808.8	7561.1	8130.7	8411.9	8440.7	8296.5	8094.6	8000.9
6025.3	25°	6200.8	6474.7	7289.5	8202.8	8664.2	8697.9	8476.8	8125.9	7743.7	7568.3
6116.6	27.5°	6359.4	6741.5	7866.3	8815.6	9048.8	8753.2	8277.3	7779.8	7318.3	7133.3
6181.5	30°	6518.0	7046.7	8503.2	9351.6	9224.2	8616.2	7962.4	7407.3	6943.4	6748.7
6239.2	32.5°	6679.0	7402.5	9236.2	9738.6	9193.0	8325.4	7570.7	6989.1	6580.5	6376.2
6289.7	35°	6861.7	7839.9	9930.8	9950.0	8983.9	7897.6	7054.0	6489.2	6133.5	5970.0
6349.8	37.5°	7099.6	8395.1	10543.7	10002.9	8618.6	7270.3	6412.3	5897.9	5604.7	5530.2
6438.7	40°	7395.2	9063.2	11012.3	9918.8	8077.8	6508.4	5710.5	5299.5	5133.6	5150.5
6558.9	42.5°	7779.8	9810.7	11341.6	9702.5	7325.5	5722.5	5095.2	4912.5	4991.8	5059.1
6739.1	45°	8279.7	10586.9	11545.9	9334.8	6474.7	5056.7	4732.3	4775.5	4835.6	4842.8
7029.9	47.5°	8919.0	11372.9	11680.5	8779.6	5607.1	4588.1	4501.6	4511.2	4499.2	4448.7
7464.9	50°	9716.9	12137.1	11800.7	8044.2	4869.3	4294.9	4179.5	4145.9	3980.0	3816.6
8044.2	52.5°	10625.4	12838.9	11851.1	7130.9	4294.9	4049.7	3862.3	3650.8	3340.7	3290.2
8772.4	55°	11634.8	13487.8	11721.3	6008.5	3811.8	3734.9	3451.3	3196.5	3162.9	3119.6
9731.3	57.5°	12841.3	14187.2	11457.0	4756.3	3316.7	3367.2	3090.8	3119.6	3059.5	2992.2
10964.3	60°	14160.8	14910.7	10993.1	3614.7	2804.8	2908.1	2997.0	2994.6	2977.8	2922.5
12264.5	62.5°	15348.1	15386.5	10079.8	2768.7	2355.3	2552.4	2795.1	2792.7	2778.3	2747.1
13622.4	65°	16054.7	15314.4	8556.1	2179.9	1985.2	2259.2	2521.2	2540.4	2542.8	2540.4
14643.9	67.5°	15929.7	14470.8	6465.1	1735.3	1680.0	1961.2	2249.6	2276.0	2295.2	2300.0
14773.7	70°	14516.5	12617.8	4215.6	1384.4	1408.4	1699.2	1992.4	2018.9	2035.7	2054.9
12819.7	72.5°	11315.2	9277.1	2413.0	1120.0	1170.5	1473.3	1737.7	1768.9	1778.5	1814.6
8921.4	75°	6895.3	5455.7	1302.6	882.0	961.4	1259.4	1485.3	1521.3	1538.2	1581.4
4381.4	77.5°	3278.2	2362.5	742.6	687.4	773.9	1028.7	1254.6	1295.4	1249.8	1273.8
1208.9	80°	1108.0	877.2	468.7	523.9	591.2	802.7	1004.6	1045.5	949.3	944.5
401.4	82.5°	386.9	355.7	298.0	348.5	382.1	574.4	759.5	812.3	706.6	704.2
180.3	85°	151.4	144.2	165.8	189.9	228.3	353.3	499.9	526.3	435.0	350.9
52.9	87.5°	31.2	33.6	40.9	43.3	69.7	122.6	180.3	221.1	175.4	149.0
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°
5181.7
5376.4
5660.0
5986.9
6359.4
6784.8
7308.7
7878.3
8188.4
8027.3
7594.7
7154.9
6770.4
6402.6
6006.1
5583.1
5208.2
5121.6
4890.9
4487.1
3838.2
3307.1
3126.8
2980.2
2903.3
2735.1
2540.4
2304.9
2064.5
1829.0
1586.2
1254.6
934.9
670.5
346.1
137.0
0.0

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