

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: McGRAW-EDISON

Report Number: P951946

Luminaire Tested: **GALN-SB5D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38240 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

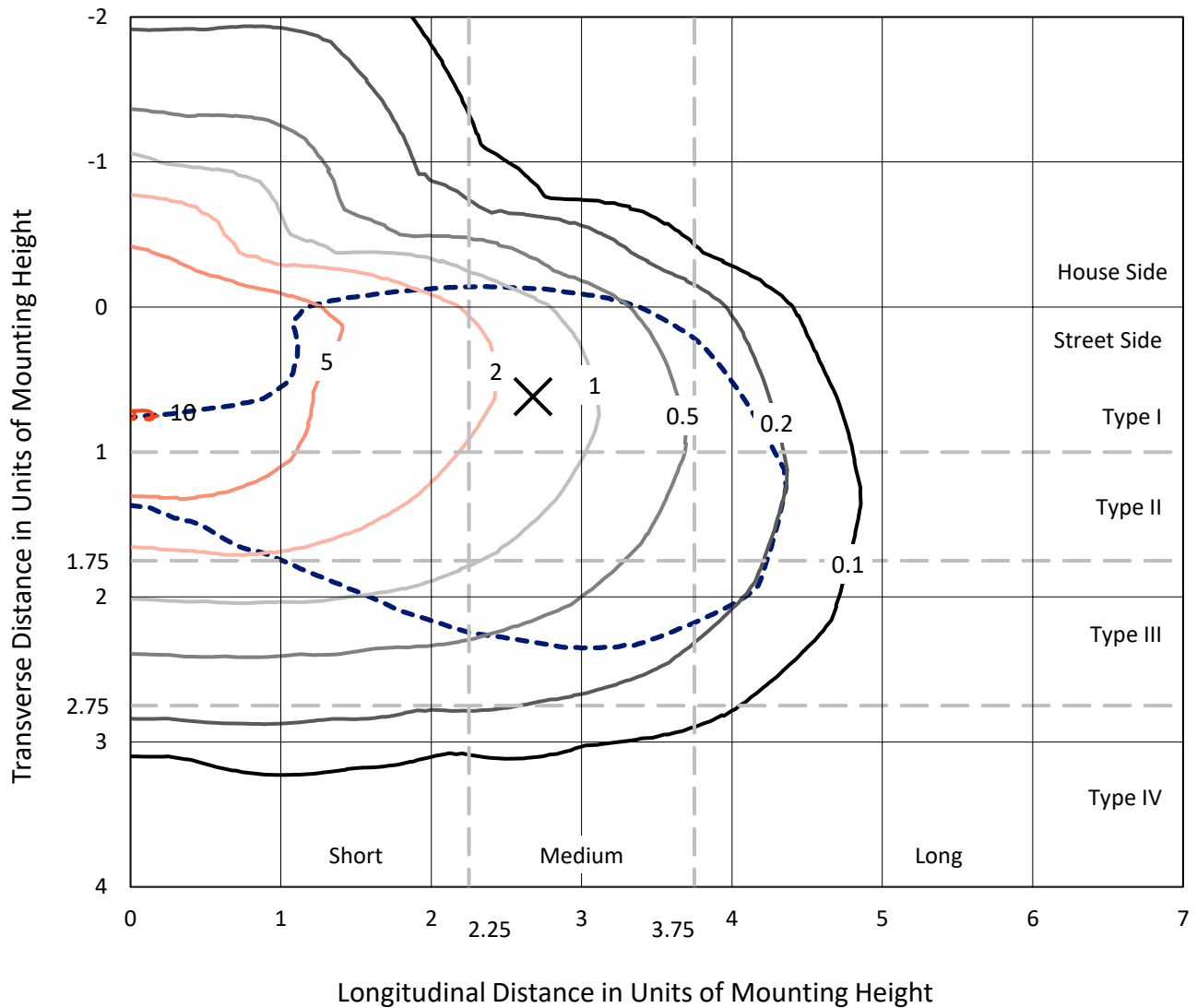
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

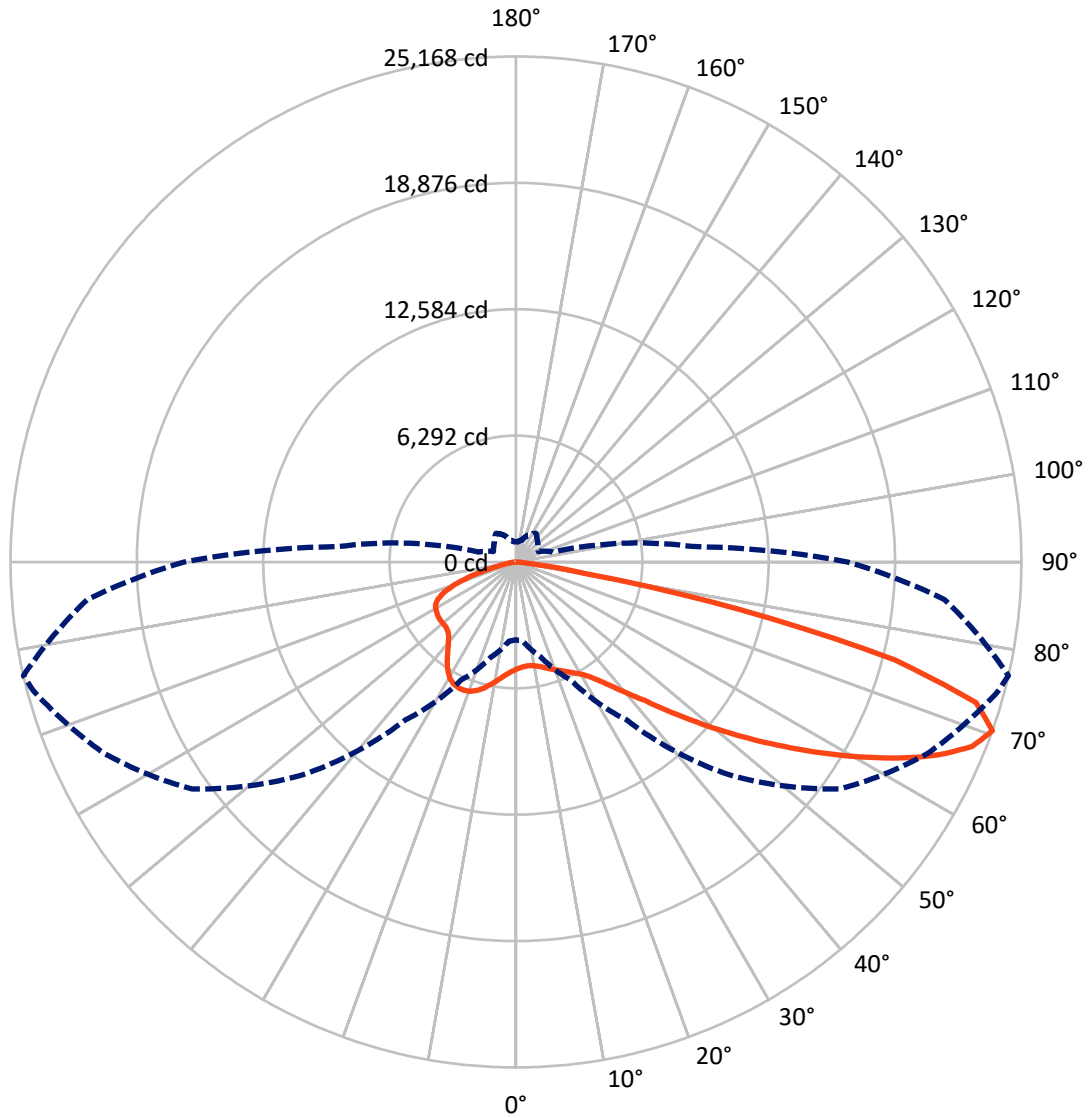
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8374.0	0.0	8374.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29866.0	0.0	29866.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	38240.0	0.0	38240.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.8	1.3
10°-20°	1468.4	3.8
20°-30°	2511.2	6.6
30°-40°	4038.3	10.6
40°-50°	6304.9	16.5
50°-60°	8421.9	22.0
60°-70°	8976.4	23.5
70°-80°	5525.8	14.5
80°-90°	484.2	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°	38240.0	100.0
0°-180°	38240.0	100.0



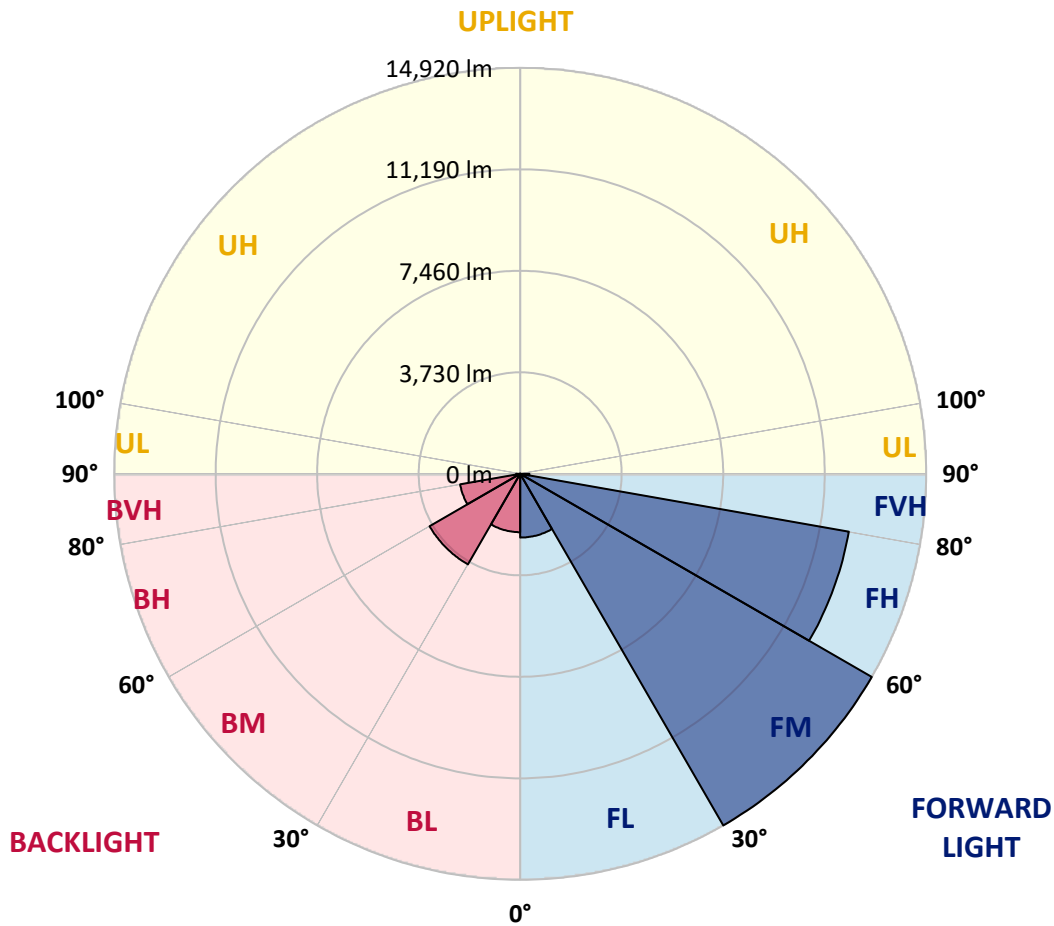
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.8	6.1			
FM (30°-60°)	14920.4	39.0			
FH (60°-80°)	12264.2	32.1			G5
FVH (80°-90°)	338.6	0.9			G3/500
BL (0°-30°)	2145.7	5.6	B3/2500		
BM (30°-60°)	3844.7	10.1	B3/5000		
BH (60°-80°)	2238.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	145.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8
2.5°	4917.7	4915.7	4941.2	4949.0	4996.0	5029.3	5092.0	5158.6	5244.7	5254.5
5°	4633.7	4633.7	4663.1	4694.4	4755.1	4821.7	4917.7	5033.2	5182.1	5205.6
7.5°	4392.8	4408.5	4433.9	4494.7	4565.2	4661.1	4808.0	4972.5	5168.4	5205.6
10°	4198.9	4216.6	4247.9	4296.8	4402.6	4535.8	4727.7	4939.2	5201.7	5260.4
12.5°	4138.2	4155.8	4173.5	4210.7	4308.6	4465.3	4694.4	4954.9	5282.0	5340.7
15°	4279.2	4300.8	4287.1	4277.3	4328.2	4471.2	4710.1	5011.7	5381.8	5466.0
17.5°	4604.3	4612.2	4580.8	4488.8	4480.9	4557.3	4784.5	5090.0	5507.2	5599.2
20°	5129.2	5115.5	5050.9	4868.7	4764.9	4749.3	4911.8	5207.5	5636.4	5734.4
22.5°	5842.1	5826.4	5697.1	5409.3	5178.2	5025.4	5095.9	5360.3	5781.4	5891.0
25°	6731.2	6709.7	6519.7	6128.0	5769.6	5391.6	5346.6	5562.0	5959.6	6061.4
27.5°	7769.2	7751.6	7545.9	7028.9	6511.9	5893.0	5658.0	5799.0	6145.6	6261.2
30°	8885.5	8936.4	8572.2	8016.0	7361.8	6547.1	6077.1	6090.8	6386.5	6490.3
32.5°	10197.7	10285.8	9847.1	9142.1	8249.0	7258.0	6605.9	6498.2	6737.1	6823.3
35°	11498.1	11598.0	11233.7	10454.2	9426.0	8096.2	7158.1	6966.2	7203.2	7297.2
37.5°	12622.2	12755.4	12567.4	11889.8	10685.3	9106.8	7878.9	7516.5	7777.0	7894.5
40°	13509.4	13713.1	13699.4	13276.4	12169.8	10332.8	8793.5	8196.1	8489.9	8617.2
42.5°	14230.1	14406.4	14559.1	14537.6	13719.0	11725.3	9868.6	9079.4	9302.7	9449.5
45°	14727.6	14915.6	15244.6	15599.1	15209.4	13215.6	11100.5	10127.2	10330.8	10552.2
47.5°	15172.1	15385.6	15812.6	16374.6	16474.5	14711.9	12449.9	11347.3	11533.3	11762.5
50°	15211.3	15395.4	16057.4	16854.5	17373.4	16149.4	13899.1	12716.2	12890.5	13135.4
52.5°	14265.4	14555.2	15710.7	16840.7	17786.7	17351.9	15338.6	14140.0	14335.9	14629.7
55°	11073.1	11498.1	14694.3	16315.9	17639.8	18129.4	16707.6	15653.9	15904.6	16212.1
57.5°	9537.7	9723.7	11664.6	15360.2	16970.0	18331.1	17863.1	17183.5	17586.9	17923.8
60°	8572.2	8726.9	9874.5	13873.7	16088.7	18011.9	18756.1	18609.2	19306.4	19707.9
62.5°	7538.1	7685.0	8728.8	11584.3	14960.6	17481.2	19320.1	19925.3	21069.0	21507.7
65°	6511.9	6637.2	7638.0	9733.5	13527.0	16950.4	19612.0	21063.2	22700.4	23154.8
67.5°	5368.1	5471.9	6417.9	8211.8	11784.0	16223.8	19756.9	21958.2	24120.3	24510.1
70°	3873.8	3954.1	4931.4	6494.2	9596.4	14974.3	19698.1	22592.7	24856.7	25168.1
72.5°	1831.2	1903.6	3051.3	4216.6	6778.2	12541.9	18509.3	22089.4	24108.6	23953.9
75°	977.3	1039.9	1752.8	2312.9	3580.1	8597.6	15146.7	19028.3	20244.5	19492.5
77.5°	662.0	710.9	1085.0	1388.5	1635.3	4081.4	9735.5	13174.5	12675.1	11433.5
80°	524.9	575.8	889.1	940.1	791.2	1474.7	4022.7	6098.6	4381.1	3503.7
82.5°	403.4	460.2	748.1	681.5	430.9	605.2	1171.2	1929.1	1122.2	853.9
85°	246.8	307.5	587.5	434.8	242.8	276.1	397.6	536.6	342.7	285.9
87.5°	125.3	176.3	297.7	158.6	109.7	64.6	105.8	105.8	90.1	78.3
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°
5334.8	0°	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8	5334.8
5307.4	2.5°	5354.4	5393.6	5460.2	5522.8	5571.8	5618.8	5665.8	5691.3	5699.1	5730.4
5336.8	5°	5417.1	5489.5	5618.8	5740.2	5816.6	5863.6	5896.9	5916.5	5920.4	5930.2
5417.1	7.5°	5532.6	5648.2	5828.4	5949.8	6006.6	6002.7	5989.0	5940.0	5920.4	5902.8
5534.6	10°	5695.2	5847.9	6069.2	6153.5	6118.2	6024.2	5902.8	5759.8	5693.2	5628.6
5695.2	12.5°	5896.9	6090.8	6308.2	6304.3	6130.0	5889.1	5607.1	5387.7	5248.7	5148.8
5893.0	15°	6141.7	6365.0	6531.4	6398.3	6016.4	5583.6	5170.3	4884.4	4759.0	4649.4
6092.8	17.5°	6394.4	6633.3	6709.7	6368.9	5730.4	5131.1	4663.1	4437.9	4314.5	4255.7
6308.2	20°	6641.1	6878.1	6815.4	6200.5	5295.7	4618.0	4200.9	4077.5	4052.0	4065.8
6517.7	22.5°	6901.6	7113.1	6837.0	5875.4	4741.4	4093.2	3864.0	3867.9	3924.7	3965.9
6737.1	25°	7167.9	7310.9	6780.2	5405.3	4146.0	3707.4	3650.6	3713.2	3824.9	3905.2
6983.8	27.5°	7424.5	7487.2	6656.8	4823.7	3634.9	3431.2	3441.0	3570.3	3738.7	3850.3
7283.5	30°	7714.4	7643.8	6419.8	4169.5	3280.4	3194.2	3276.5	3427.3	3595.7	3695.6
7661.5	32.5°	8041.4	7779.0	6043.8	3564.4	3029.7	3004.3	3139.4	3237.3	3311.7	3341.1
8162.8	35°	8448.8	7968.9	5562.0	3139.4	2804.5	2865.2	2994.5	2945.5	2916.1	2900.5
8836.5	37.5°	8977.6	8225.5	4998.0	2863.3	2622.4	2765.3	2818.2	2665.5	2549.9	2493.1
9653.2	40°	9614.1	8601.5	4455.5	2649.8	2506.8	2679.2	2587.1	2403.0	2256.1	2175.8
10571.7	42.5°	10321.1	8995.2	3999.2	2489.2	2442.2	2608.7	2416.7	2197.4	1960.4	1935.0
11666.5	45°	11063.3	9400.6	3687.8	2365.8	2410.9	2547.9	2318.8	1964.3	1795.9	1899.7
12765.2	47.5°	11805.6	9772.7	3499.8	2273.8	2395.2	2479.4	2232.6	1835.1	1715.6	1866.4
13942.2	50°	12632.0	10105.6	3415.5	2207.2	2377.6	2452.0	2103.4	1801.8	1631.4	1731.3
15160.4	52.5°	13452.6	10364.1	3352.9	2140.6	2352.1	2430.4	2040.7	1762.6	1529.6	1535.4
16386.4	55°	14271.3	10532.6	3284.3	2052.5	2295.3	2383.4	2034.8	1719.5	1453.2	1425.8
17682.9	57.5°	15144.7	10628.5	3200.1	1954.5	2197.4	2264.0	2029.0	1686.2	1429.7	1384.6
19008.8	60°	16033.9	10769.5	3090.4	1835.1	2066.2	2121.0	2015.2	1674.5	1416.0	1339.6
20258.2	62.5°	16831.0	10818.5	2959.2	1721.5	1897.7	1980.0	1985.9	1664.7	1378.8	1247.5
21296.2	65°	17353.9	10607.0	2730.1	1592.2	1715.6	1835.1	1929.1	1631.4	1312.2	1180.9
21809.3	67.5°	17332.3	10003.8	2371.7	1425.8	1539.3	1674.5	1846.8	1574.6	1231.9	1098.7
21421.6	70°	16525.4	8813.0	1917.3	1231.9	1345.5	1502.1	1741.1	1490.4	1135.9	1008.6
19047.9	72.5°	14173.3	6897.7	1392.5	1004.7	1120.2	1323.9	1604.0	1388.5	1038.0	928.3
14077.4	75°	10125.2	4365.4	944.0	771.6	871.5	1122.2	1433.6	1269.1	947.9	932.2
7050.4	77.5°	5172.3	2085.8	624.7	564.0	607.1	885.2	1204.4	1133.9	961.6	769.7
2005.5	80°	1682.3	769.7	393.6	383.9	403.4	589.5	932.2	930.3	728.5	522.9
485.7	82.5°	536.6	331.0	256.6	246.8	237.0	370.1	650.2	736.4	491.6	331.0
174.3	85°	213.5	197.8	150.8	139.1	99.9	174.3	340.8	489.6	366.2	238.9
45.0	87.5°	78.3	78.3	41.1	29.4	21.5	58.8	92.0	146.9	209.6	123.4
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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<u>180°</u>
5334.8
5748.1
5945.9
5906.7
5609.0
5125.3
4637.6
4273.3
4059.9
3975.7
3926.7
3877.7
3719.1
3356.8
2916.1
2506.8
2181.7
1960.4
1954.5
1936.9
1805.7
1576.6
1445.3
1390.5
1345.5
1247.5
1180.9
1104.6
1020.4
922.4
879.3
685.5
462.2
329.0
244.8
121.4
0.0

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