

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: P954078

Luminaire Tested: **GALN-SB7B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28361 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

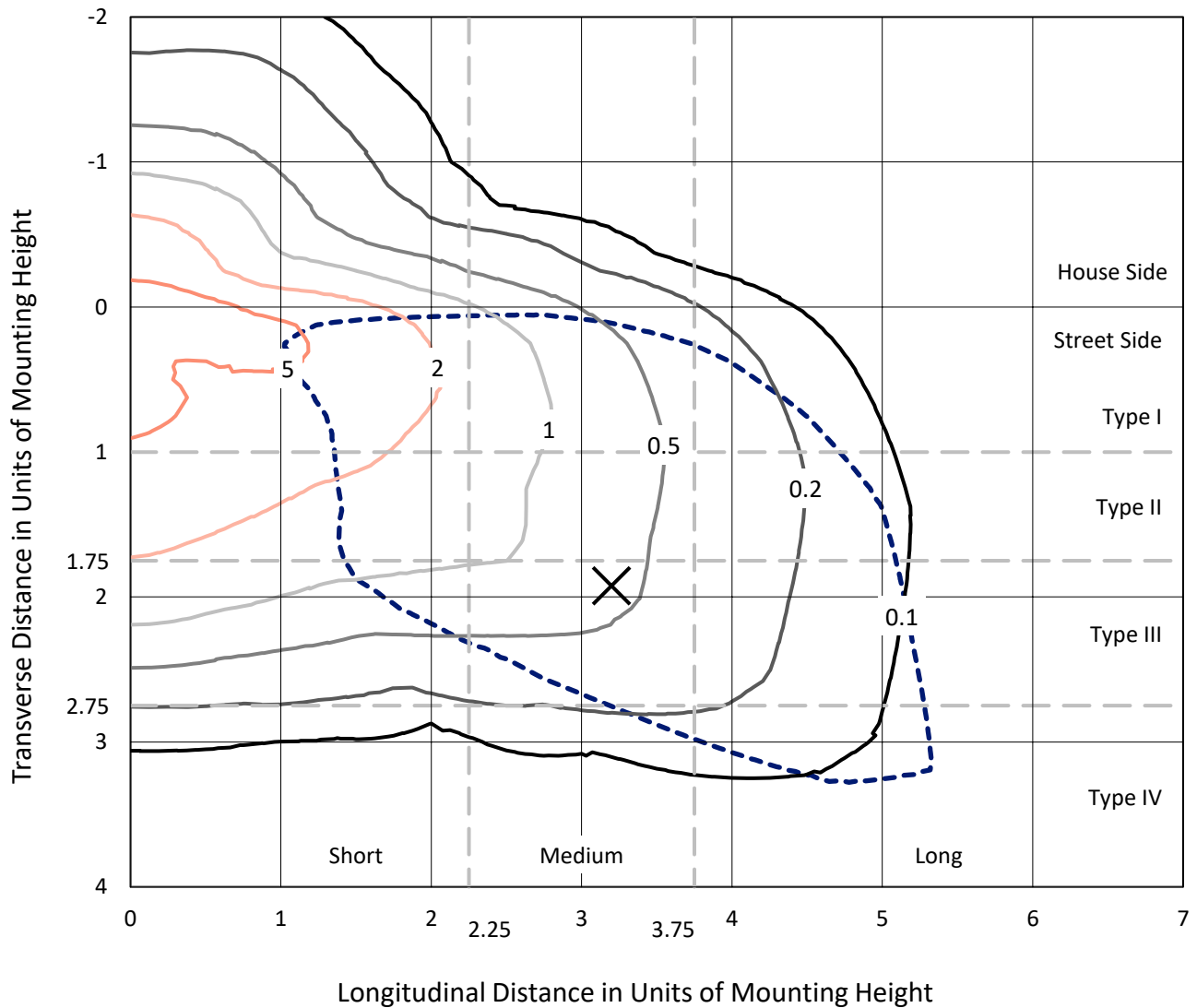
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

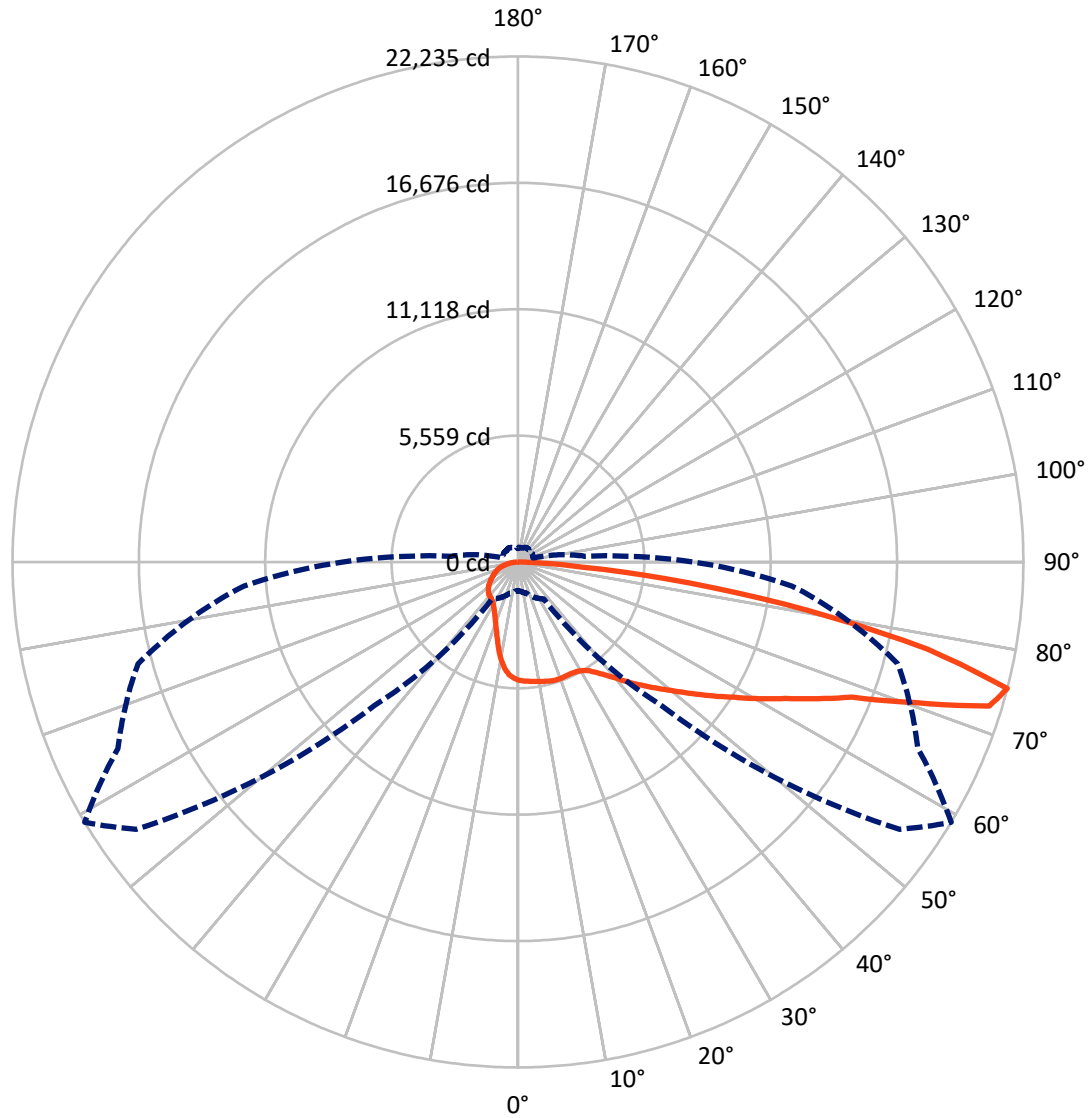
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5319.3	0.0	5319.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23041.7	0.0	23041.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	28361.0	0.0	28361.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	1.6
10°-20°	1193.1	4.2
20°-30°	1812.2	6.4
30°-40°	2693.8	9.5
40°-50°	4006.1	14.1
50°-60°	5437.8	19.2
60°-70°	6638.7	23.4
70°-80°	5210.0	18.4
80°-90°	902.5	3.2
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°	28361.0	100.0
0°-180°	28361.0	100.0



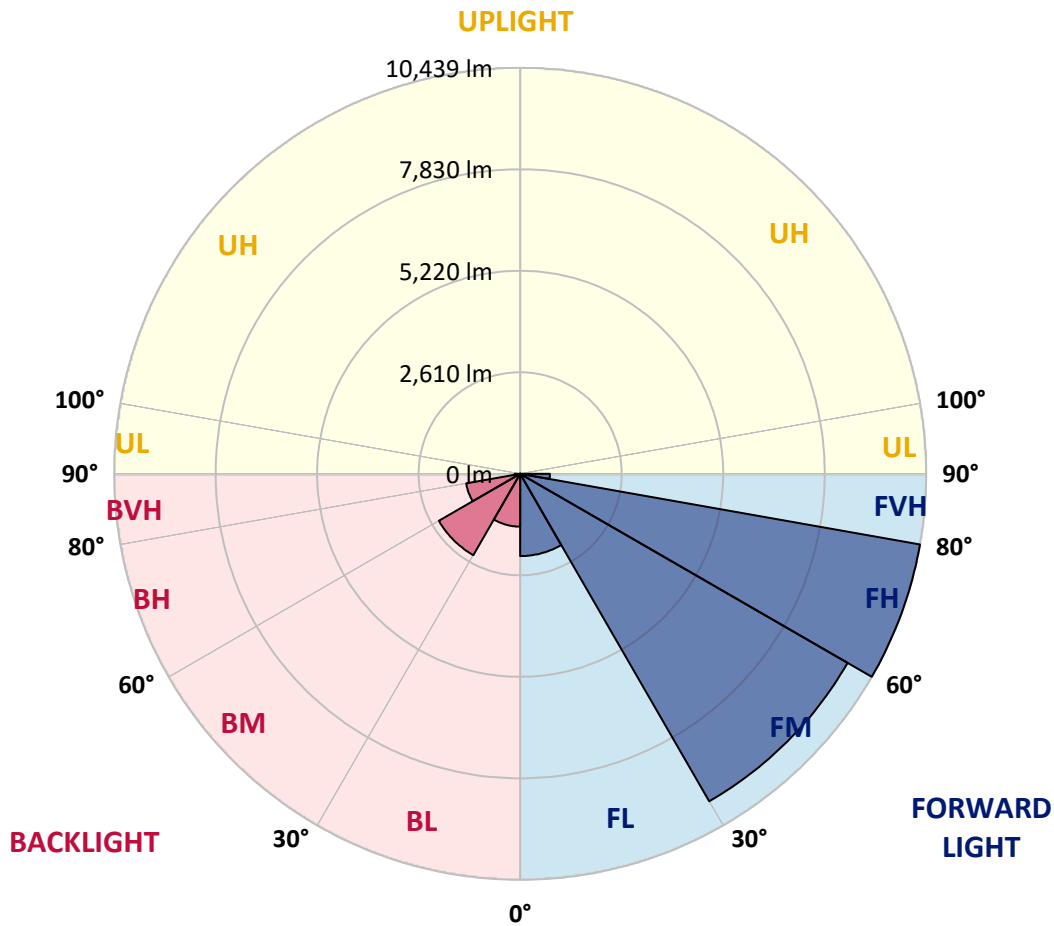
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.6	7.5			
FM (30°-60°)	9723.3	34.3			
FH (60°-80°)	10439.4	36.8			G4/12000
FVH (80°-90°)	764.3	2.7			G5
BL (0°-30°)	1357.4	4.8	B3/2500		
BM (30°-60°)	2414.4	8.5	B2/2500		
BH (60°-80°)	1409.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	138.2	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6
2.5°	5249.8	5231.5	5249.8	5242.2	5239.2	5233.1	5234.6	5245.3	5239.2	5246.8
5°	5214.8	5204.1	5222.4	5217.8	5237.6	5240.7	5260.5	5272.7	5280.4	5281.9
7.5°	5156.8	5146.1	5172.0	5193.4	5236.1	5248.3	5289.5	5309.3	5320.0	5338.3
10°	4944.7	4940.1	5004.2	5085.1	5185.8	5248.3	5310.9	5344.4	5361.2	5410.0
12.5°	4569.4	4575.5	4659.4	4815.0	5016.4	5217.8	5335.3	5384.1	5410.0	5471.1
15°	4210.9	4209.3	4300.9	4467.2	4749.4	5083.5	5347.5	5431.4	5475.6	5565.7
17.5°	4003.4	3997.3	4061.3	4188.0	4450.4	4877.6	5317.0	5457.3	5551.9	5664.8
20°	3965.2	3953.0	3986.6	4049.1	4235.3	4651.8	5237.6	5457.3	5613.0	5759.4
22.5°	4104.1	4084.2	4070.5	4062.9	4145.3	4465.6	5147.6	5439.0	5703.0	5895.2
25°	4383.3	4352.7	4282.6	4213.9	4189.5	4381.7	5068.3	5434.4	5837.2	6078.3
27.5°	4834.9	4796.7	4654.8	4490.1	4342.1	4424.5	5033.2	5461.9	5985.2	6272.0
30°	5394.8	5353.6	5175.1	4921.8	4656.4	4583.1	5077.4	5542.8	6174.4	6529.9
32.5°	5896.7	5851.0	5698.4	5440.6	5082.0	4857.7	5217.8	5696.9	6471.9	6888.4
35°	6342.2	6288.8	6151.5	5913.5	5603.8	5243.7	5471.1	5970.0	6894.5	7471.2
37.5°	6778.6	6716.0	6566.5	6314.8	6098.1	5757.9	5820.4	6320.9	7456.0	8179.1
40°	7266.8	7176.8	6995.2	6746.5	6536.0	6360.5	6279.7	6751.1	8026.6	8969.4
42.5°	7739.7	7654.3	7437.7	7225.6	6961.6	6911.3	6812.1	7254.6	8650.6	9837.5
45°	8249.3	8147.1	7884.7	7616.2	7449.9	7277.5	7327.8	7758.1	9262.4	10722.4
47.5°	8726.9	8612.4	8302.7	8003.7	7912.1	7585.6	7800.8	8311.9	9898.6	11619.5
50°	8984.7	8871.8	8614.0	8343.9	8272.2	7965.5	8313.4	8920.6	10565.3	12513.6
52.5°	9199.8	9077.8	8740.6	8591.1	8569.7	8379.0	8945.0	9616.3	11232.0	13303.9
55°	9428.7	9292.9	8862.6	8728.4	8826.0	8842.8	9694.1	10405.1	11936.9	14074.3
57.5°	9692.6	9520.2	8980.1	8844.3	9076.2	9385.9	10554.6	11222.9	12629.5	14788.4
60°	9941.3	9767.4	9205.9	9028.9	9346.3	10016.0	11541.7	12213.0	13413.7	15424.6
62.5°	9990.1	9846.7	9385.9	9384.4	9712.4	10751.4	12710.4	13212.3	14098.7	16053.1
65°	9144.9	9054.9	8781.8	9370.7	10237.3	11810.2	14011.8	14490.8	14969.9	16602.4
67.5°	6960.1	6972.3	6952.5	8089.1	9813.1	13331.3	15896.0	15859.4	16045.5	17218.8
70°	3182.6	3254.3	3721.1	5584.0	7861.8	13506.8	19011.4	18536.9	17395.7	18016.7
72.5°	1719.4	1774.4	1965.1	2705.0	4726.5	12008.6	21339.6	21676.8	19191.4	18553.7
75°	1261.7	1292.2	1425.0	1719.4	1984.9	8925.2	20505.1	22235.2	19415.7	17301.1
77.5°	944.4	958.1	1066.4	1362.4	1016.1	4705.2	16384.2	18414.9	16620.7	14214.7
80°	685.0	700.3	781.1	1022.2	712.5	1721.0	11250.3	12925.5	11383.1	9061.0
82.5°	473.0	479.1	514.2	695.7	497.4	668.2	6383.4	7579.5	6354.4	3179.5
85°	285.3	292.9	308.2	405.8	282.2	317.3	2755.4	2850.0	1899.5	759.8
87.5°	117.5	125.1	137.3	170.9	111.4	88.5	454.7	570.6	355.5	222.7
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°
5205.6	0°	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6	5205.6
5220.9	2.5°	5213.2	5202.5	5173.6	5133.9	5097.3	5051.5	5031.7	5014.9	4999.6	4970.6
5262.0	5°	5245.3	5216.3	5138.5	5037.8	4923.3	4798.2	4676.2	4592.3	4520.6	4467.2
5309.3	7.5°	5294.1	5239.2	5097.3	4891.3	4628.9	4360.4	4117.8	3945.4	3815.7	3768.4
5376.5	10°	5344.4	5278.8	5031.7	4668.6	4215.4	3802.0	3480.1	3303.1	3199.3	3165.8
5455.8	12.5°	5403.9	5307.8	4929.5	4358.8	3753.2	3300.0	3019.3	2915.6	2862.2	2843.9
5553.5	15°	5490.9	5332.2	4775.4	3971.3	3312.2	2933.9	2752.3	2680.6	2653.1	2651.6
5654.1	17.5°	5556.5	5336.8	4535.8	3556.3	2973.5	2712.6	2563.1	2535.7	2554.0	2581.4
5753.3	20°	5629.7	5295.6	4221.5	3178.0	2735.5	2518.9	2456.3	2474.6	2518.9	2558.6
5884.5	22.5°	5681.6	5220.9	3841.6	2883.5	2529.6	2407.5	2404.5	2442.6	2467.0	2486.8
6038.6	25°	5727.4	5094.2	3438.9	2636.4	2360.2	2340.4	2373.9	2361.7	2345.0	2361.7
6192.7	27.5°	5760.9	4894.4	3078.8	2419.7	2241.2	2294.6	2274.8	2247.3	2245.8	2254.9
6374.3	30°	5750.3	4627.4	2782.8	2213.8	2157.3	2209.2	2161.9	2157.3	2152.7	2157.3
6647.4	32.5°	5750.3	4323.8	2555.5	2071.9	2103.9	2084.1	2079.5	2068.8	2050.5	2049.0
7018.1	35°	5782.3	4020.1	2360.2	1995.6	2059.7	2012.4	2015.4	1989.5	1951.3	1933.0
7509.4	37.5°	5847.9	3776.0	2166.5	1959.0	1981.9	1980.3	1968.1	1923.9	1856.7	1798.8
8122.7	40°	6006.6	3704.3	2033.7	1942.2	1945.2	1963.5	1931.5	1846.1	1693.5	1598.9
8745.2	42.5°	6255.3	3824.9	2004.7	1901.0	1920.8	1939.1	1876.6	1678.2	1569.9	1513.5
9398.1	45°	6571.1	4035.4	2067.3	1841.5	1862.8	1894.9	1708.8	1614.2	1565.3	1566.9
10045.0	47.5°	6970.8	4256.6	2183.2	1789.6	1778.9	1797.2	1597.4	1539.4	1472.3	1489.1
10666.0	50°	7433.1	4480.9	2293.1	1719.4	1685.9	1626.4	1525.7	1470.7	1385.3	1345.6
11265.6	52.5°	7933.5	4697.5	2337.3	1634.0	1585.2	1516.5	1476.9	1409.7	1306.0	1240.4
11831.6	55°	8408.0	4894.4	2288.5	1531.8	1484.5	1431.1	1425.0	1383.8	1272.4	1180.9
12335.1	57.5°	8856.5	5059.1	2166.5	1428.0	1382.3	1350.2	1391.4	1371.6	1231.2	1113.7
12811.1	60°	9236.4	5172.0	1989.5	1322.8	1290.7	1273.9	1336.5	1330.4	1173.2	1042.0
13238.3	62.5°	9538.5	5216.3	1794.2	1222.1	1214.4	1183.9	1260.2	1260.2	1100.0	971.9
13613.6	65°	9775.0	5173.6	1595.9	1122.9	1138.2	1092.4	1167.1	1158.0	1022.2	909.3
14045.4	67.5°	9984.0	5033.2	1376.2	1025.3	1060.3	1002.4	1069.5	1048.1	936.8	846.7
14419.1	70°	10077.1	4706.7	1125.9	927.6	970.3	913.9	971.9	932.2	840.6	779.6
14008.7	72.5°	9329.5	3911.8	886.4	825.4	862.0	816.2	866.6	820.8	736.9	709.4
12097.1	75°	7718.4	2935.4	682.0	714.0	741.5	706.4	740.0	706.4	630.1	649.9
8935.9	77.5°	5605.3	1981.9	521.8	596.5	608.7	590.4	619.4	581.3	512.6	508.0
4453.4	80°	2787.4	1161.0	408.9	471.4	466.9	454.7	488.2	469.9	411.9	436.3
1202.2	82.5°	807.1	497.4	297.5	331.1	321.9	325.0	349.4	358.5	537.0	532.5
373.8	85°	253.3	195.3	178.5	184.6	175.5	180.0	206.0	408.9	378.4	221.2
116.0	87.5°	65.6	67.1	44.2	47.3	48.8	58.0	65.6	248.7	119.0	77.8
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>
5205.6
4956.9
4422.9
3686.0
3113.9
2848.4
2657.7
2592.1
2572.3
2497.5
2372.4
2270.2
2174.1
2068.8
1951.3
1818.6
1611.1
1513.5
1574.5
1531.8
1356.3
1238.8
1180.9
1107.6
1037.5
967.3
903.2
840.6
767.4
686.6
593.5
485.2
431.8
544.7
239.5
82.4
0.0

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