

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: P955044

Luminaire Tested: **GALN-SB8A-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955044
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-SB8A-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33909 lumens
Efficiency: N/A
Efficacy: 149.3 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

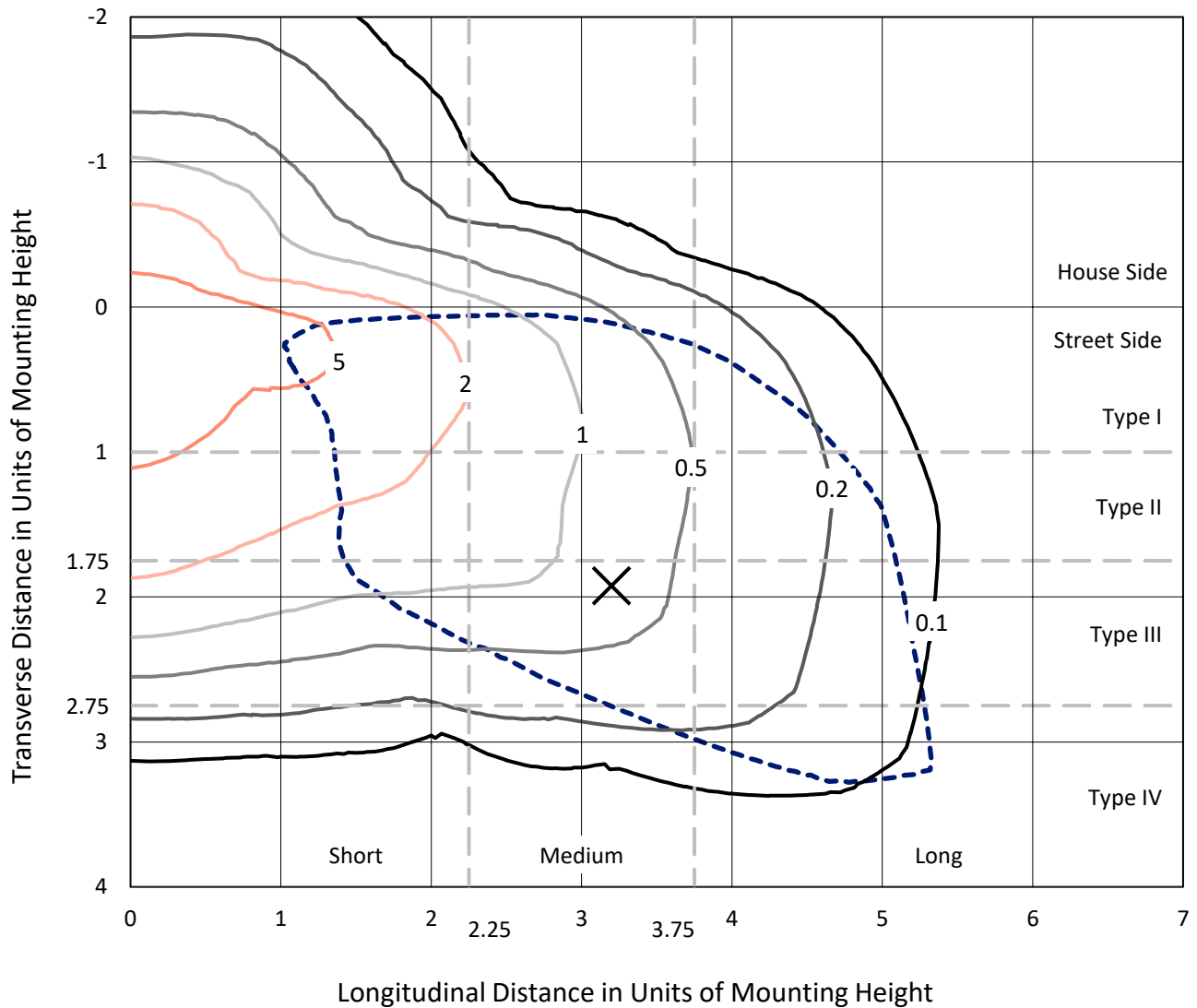
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

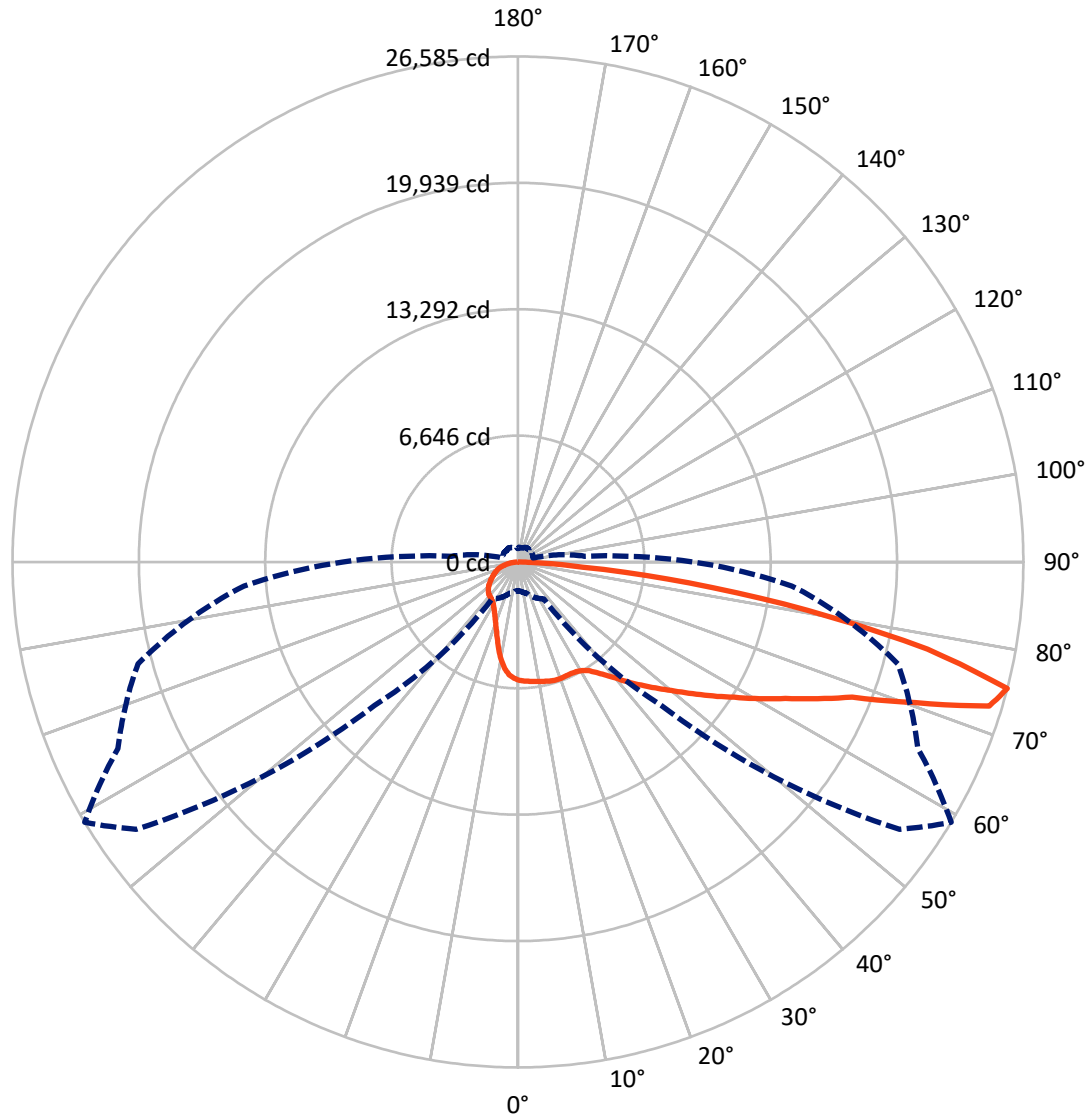
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	6359.9	0.0	6359.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27549.1	0.0	27549.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	33909.0	0.0	33909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	1.6
10°-20°	1426.5	4.2
20°-30°	2166.7	6.4
30°-40°	3220.7	9.5
40°-50°	4789.8	14.1
50°-60°	6501.6	19.2
60°-70°	7937.4	23.4
70°-80°	6229.2	18.4
80°-90°	1079.0	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°	33909.0	100.0
0°-180°	33909.0	100.0

Coefficient of Utilization



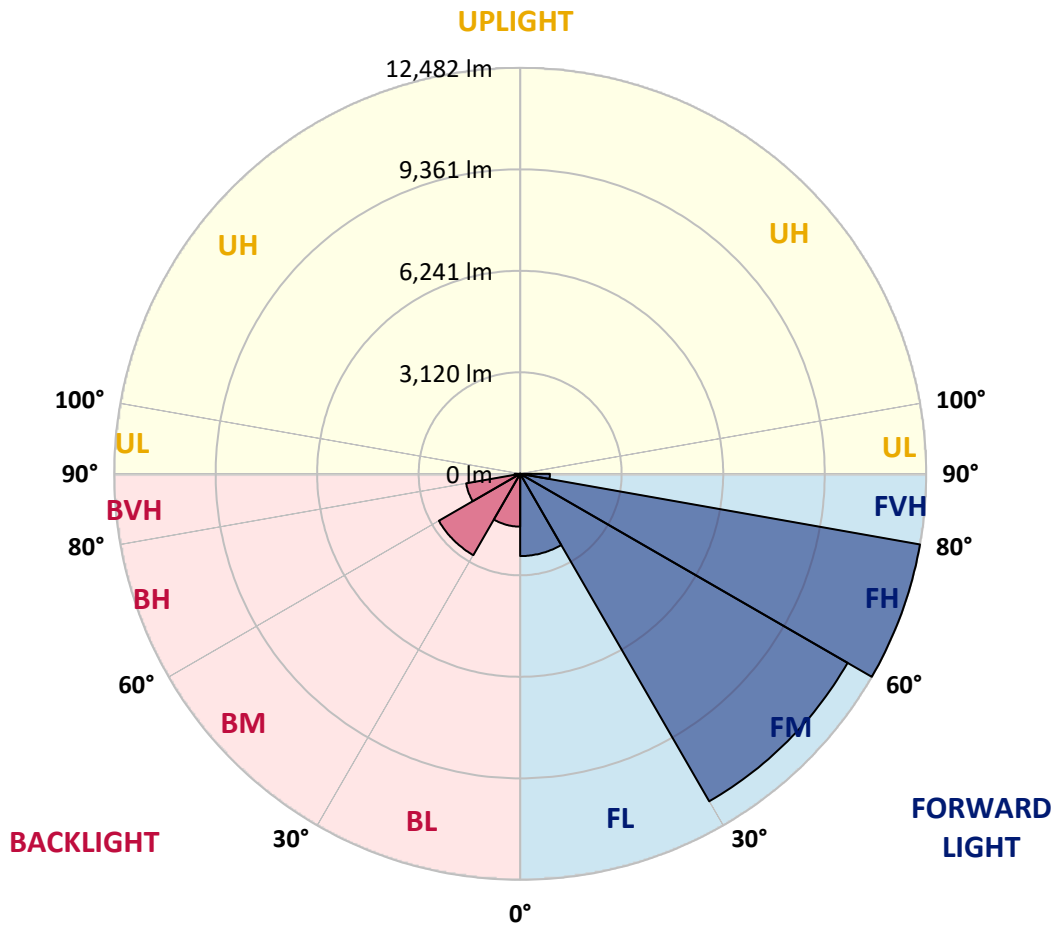
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.3	7.5			
FM (30°-60°)	11625.4	34.3			
FH (60°-80°)	12481.6	36.8			G5
FVH (80°-90°)	913.9	2.7			G5
BL (0°-30°)	1623.0	4.8	B3/2500		
BM (30°-60°)	2886.8	8.5	B3/5000		
BH (60°-80°)	1685.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	165.2	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°	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9
2.5°	6276.8	6254.9	6276.8	6267.7	6264.1	6256.8	6258.6	6271.3	6264.1	6273.2
5°	6234.9	6222.1	6244.0	6238.5	6262.2	6265.9	6289.6	6304.2	6313.3	6315.1
7.5°	6165.5	6152.8	6183.8	6209.3	6260.4	6275.0	6324.2	6348.0	6360.7	6382.6
10°	5912.0	5906.5	5983.1	6079.8	6200.2	6275.0	6349.8	6389.9	6410.0	6468.4
12.5°	5463.3	5470.6	5570.9	5756.9	5997.7	6238.5	6379.0	6437.3	6468.4	6541.3
15°	5034.6	5032.8	5142.2	5341.0	5678.5	6078.0	6393.6	6493.9	6546.8	6654.4
17.5°	4786.5	4779.2	4855.8	5007.2	5321.0	5831.7	6357.1	6524.9	6638.0	6773.0
20°	4740.9	4726.3	4766.4	4841.2	5063.8	5561.8	6262.2	6524.9	6711.0	6886.1
22.5°	4906.9	4883.2	4866.8	4857.7	4956.2	5339.2	6154.6	6503.0	6818.6	7048.4
25°	5240.7	5204.2	5120.3	5038.2	5009.1	5238.9	6059.7	6497.5	6979.1	7267.3
27.5°	5780.7	5735.1	5565.4	5368.4	5191.5	5290.0	6017.8	6530.4	7156.1	7499.0
30°	6450.1	6400.9	6187.4	5884.6	5567.2	5479.7	6070.7	6627.1	7382.2	7807.3
32.5°	7050.3	6995.5	6813.1	6504.8	6076.2	5808.0	6238.5	6811.3	7737.9	8235.9
35°	7582.9	7519.1	7354.9	7070.3	6700.0	6269.5	6541.3	7137.8	8243.2	8932.8
37.5°	8104.6	8029.8	7851.0	7550.1	7291.0	6884.3	6959.0	7557.4	8914.5	9779.1
40°	8688.3	8580.7	8363.6	8066.3	7814.6	7604.8	7508.1	8071.8	9596.7	10724.0
42.5°	9253.8	9151.6	8892.6	8639.1	8323.5	8263.3	8144.7	8673.7	10342.8	11762.0
45°	9863.1	9740.8	9427.1	9106.0	8907.2	8701.1	8761.3	9275.7	11074.3	12820.0
47.5°	10434.0	10297.2	9926.9	9569.4	9459.9	9069.6	9326.8	9937.8	11834.9	13892.6
50°	10742.3	10607.3	10299.0	9976.2	9890.4	9523.8	9939.7	10665.7	12632.1	14961.5
52.5°	10999.5	10853.6	10450.4	10271.7	10246.1	10018.1	10694.9	11497.5	13429.2	15906.4
55°	11273.1	11110.8	10596.4	10435.8	10552.6	10572.6	11590.5	12440.5	14272.0	16827.6
57.5°	11588.7	11382.6	10736.8	10574.5	10851.7	11222.0	12619.3	13418.3	15100.1	17681.3
60°	11886.0	11678.1	11006.8	10795.2	11174.6	11975.4	13799.5	14602.1	16037.7	18441.9
62.5°	11944.4	11772.9	11222.0	11220.2	11612.4	12854.6	15196.8	15796.9	16856.8	19193.5
65°	10933.8	10826.2	10499.7	11203.8	12239.9	14120.6	16752.8	17325.6	17898.3	19850.2
67.5°	8321.7	8336.3	8312.5	9671.5	11732.8	15939.2	19005.6	18961.8	19184.3	20587.1
70°	3805.1	3890.9	4449.0	6676.3	9399.7	16149.0	22730.4	22163.1	20798.7	21541.1
72.5°	2055.8	2121.5	2349.5	3234.2	5651.1	14357.7	25514.1	25917.2	22945.7	22183.2
75°	1508.6	1545.0	1703.7	2055.8	2373.2	10671.1	24516.3	26584.8	23213.8	20685.6
77.5°	1129.1	1145.6	1275.1	1628.9	1214.9	5625.6	19589.3	22017.2	19872.0	16995.4
80°	819.0	837.3	934.0	1222.2	851.9	2057.6	13451.1	15454.0	13609.8	10833.5
82.5°	565.5	572.8	614.7	831.8	594.7	799.0	7632.1	9062.3	7597.5	3801.5
85°	341.1	350.2	368.5	485.2	337.5	379.4	3294.4	3407.5	2271.0	908.4
87.5°	140.5	149.6	164.2	204.3	133.2	105.8	543.6	682.2	425.0	266.3
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°
6223.9	0°	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9	6223.9
6242.2	2.5°	6233.0	6220.3	6185.6	6138.2	6094.4	6039.7	6016.0	5995.9	5977.7	5943.0
6291.4	5°	6271.3	6236.7	6143.7	6023.3	5886.5	5736.9	5590.9	5490.6	5404.9	5341.0
6348.0	7.5°	6329.7	6264.1	6094.4	5848.2	5534.4	5213.4	4923.3	4717.2	4562.1	4505.6
6428.2	10°	6389.9	6311.5	6016.0	5581.8	5040.1	4545.7	4160.8	3949.2	3825.2	3785.1
6523.1	12.5°	6461.1	6346.1	5893.8	5211.5	4487.4	3945.6	3609.9	3485.9	3422.1	3400.2
6639.8	15°	6565.0	6375.3	5709.5	4748.2	3960.2	3507.8	3290.7	3205.0	3172.2	3170.3
6760.2	17.5°	6643.5	6380.8	5423.1	4252.0	3555.2	3243.3	3064.5	3031.7	3053.6	3086.4
6878.8	20°	6731.0	6331.5	5047.4	3799.7	3270.7	3011.6	2936.8	2958.7	3011.6	3059.1
7035.7	22.5°	6793.0	6242.2	4593.2	3447.6	3024.4	2878.5	2874.8	2920.4	2949.6	2973.3
7219.9	25°	6847.8	6090.8	4111.6	3152.1	2821.9	2798.2	2838.3	2823.7	2803.7	2823.7
7404.1	27.5°	6887.9	5851.8	3681.1	2893.1	2679.6	2743.5	2719.8	2686.9	2685.1	2696.1
7621.2	30°	6875.1	5532.6	3327.2	2646.8	2579.3	2641.3	2584.8	2579.3	2573.8	2579.3
7947.7	32.5°	6875.1	5169.6	3055.4	2477.2	2515.5	2491.8	2486.3	2473.5	2451.6	2449.8
8391.0	35°	6913.4	4806.6	2821.9	2386.0	2462.6	2406.0	2409.7	2378.7	2333.1	2311.2
8978.4	37.5°	6991.9	4514.7	2590.3	2342.2	2369.5	2367.7	2353.1	2300.2	2220.0	2150.6
9711.7	40°	7181.6	4429.0	2431.6	2322.1	2325.8	2347.7	2309.3	2207.2	2024.8	1911.7
10455.9	42.5°	7478.9	4573.1	2396.9	2272.9	2296.6	2318.5	2243.7	2006.5	1877.0	1809.5
11236.6	45°	7856.5	4824.8	2471.7	2201.7	2227.3	2265.6	2043.0	1929.9	1871.6	1873.4
12010.1	47.5°	8334.4	5089.3	2610.3	2139.7	2126.9	2148.8	1909.9	1840.5	1760.3	1780.3
12752.5	50°	8887.1	5357.5	2741.7	2055.8	2015.7	1944.5	1824.1	1758.5	1656.3	1608.9
13469.4	52.5°	9485.5	5616.5	2794.6	1953.6	1895.3	1813.2	1765.8	1685.5	1561.5	1483.0
14146.1	55°	10052.8	5851.8	2736.2	1831.4	1774.9	1711.0	1703.7	1654.5	1521.3	1411.9
14748.1	57.5°	10589.1	6048.8	2590.3	1707.4	1652.7	1614.4	1663.6	1639.9	1472.1	1331.6
15317.2	60°	11043.3	6183.8	2378.7	1581.5	1543.2	1523.1	1597.9	1590.6	1402.8	1245.9
15828.0	62.5°	11404.4	6236.7	2145.2	1461.1	1452.0	1415.5	1506.7	1506.7	1315.2	1162.0
16276.7	65°	11687.2	6185.6	1908.0	1342.6	1360.8	1306.1	1395.5	1384.5	1222.2	1087.2
16792.9	67.5°	11937.1	6017.8	1645.4	1225.8	1267.8	1198.5	1278.7	1253.2	1120.0	1012.4
17239.8	70°	12048.4	5627.4	1346.2	1109.1	1160.1	1092.7	1162.0	1114.5	1005.1	932.1
16749.1	72.5°	11154.5	4677.1	1059.8	986.9	1030.6	975.9	1036.1	981.4	881.1	848.2
14463.5	75°	9228.3	3509.6	815.4	853.7	886.5	844.6	884.7	844.6	753.4	777.1
10683.9	77.5°	6701.8	2369.5	623.9	713.2	727.8	705.9	740.6	695.0	612.9	607.4
5324.6	80°	3332.7	1388.2	488.9	563.7	558.2	543.6	583.7	561.8	492.5	521.7
1437.4	82.5°	965.0	594.7	355.7	395.8	384.9	388.5	417.7	428.7	642.1	636.6
446.9	85°	302.8	233.5	213.4	220.7	209.8	215.2	246.3	488.9	452.4	264.5
138.6	87.5°	78.4	80.3	52.9	56.5	58.4	69.3	78.4	297.3	142.3	93.0
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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<u>180°</u>
6223.9
5926.6
5288.1
4407.1
3723.0
3405.6
3177.6
3099.2
3075.5
2986.1
2836.5
2714.3
2599.4
2473.5
2333.1
2174.4
1926.3
1809.5
1882.5
1831.4
1621.6
1481.2
1411.9
1324.3
1240.4
1156.5
1079.9
1005.1
917.5
820.9
709.6
580.1
516.2
651.2
286.4
98.5
0.0

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