

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: P954897

Luminaire Tested: **GALN-SB8A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954897
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 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: 35450 lumens
Efficiency: N/A
Efficacy: 156.1 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

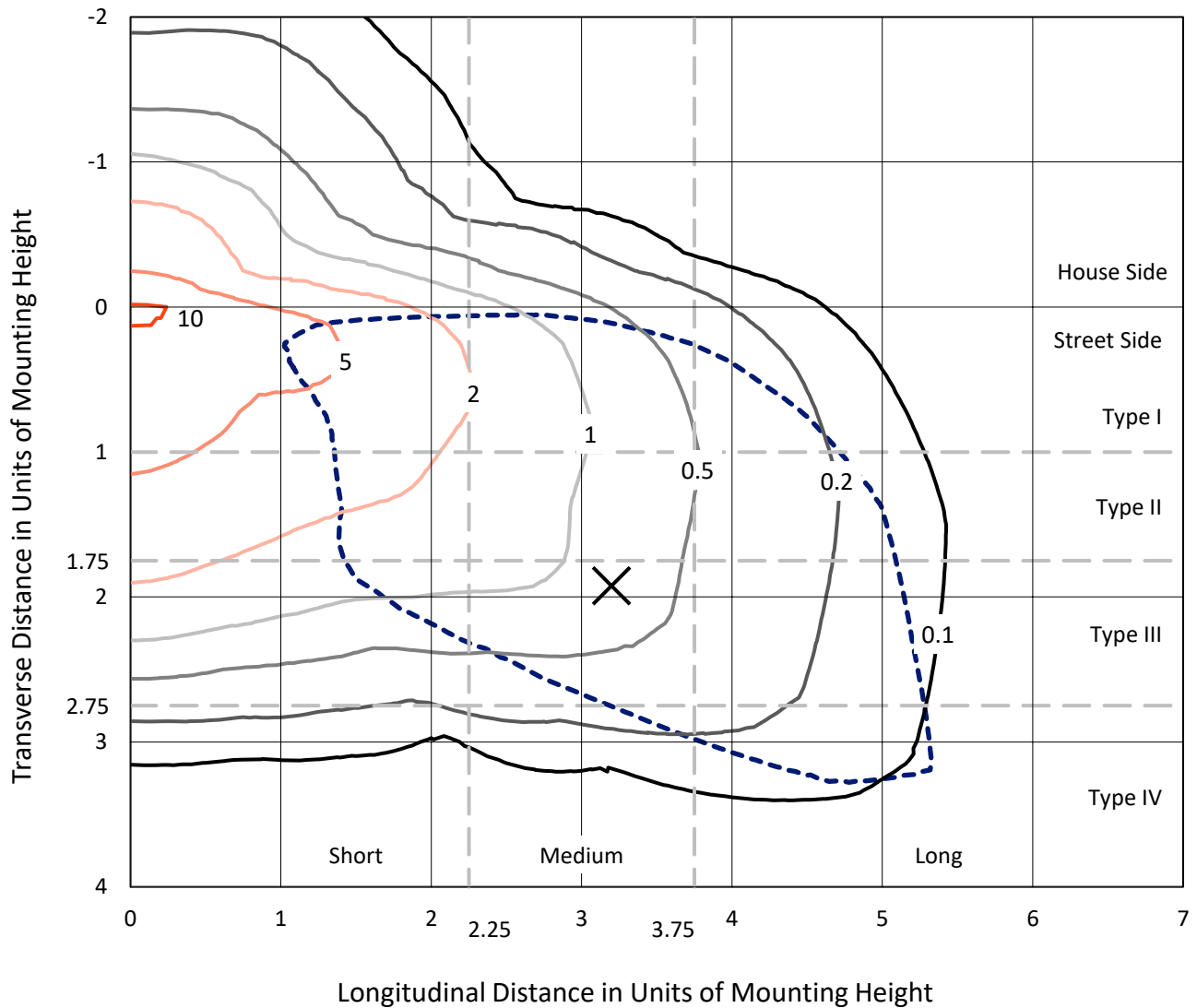
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

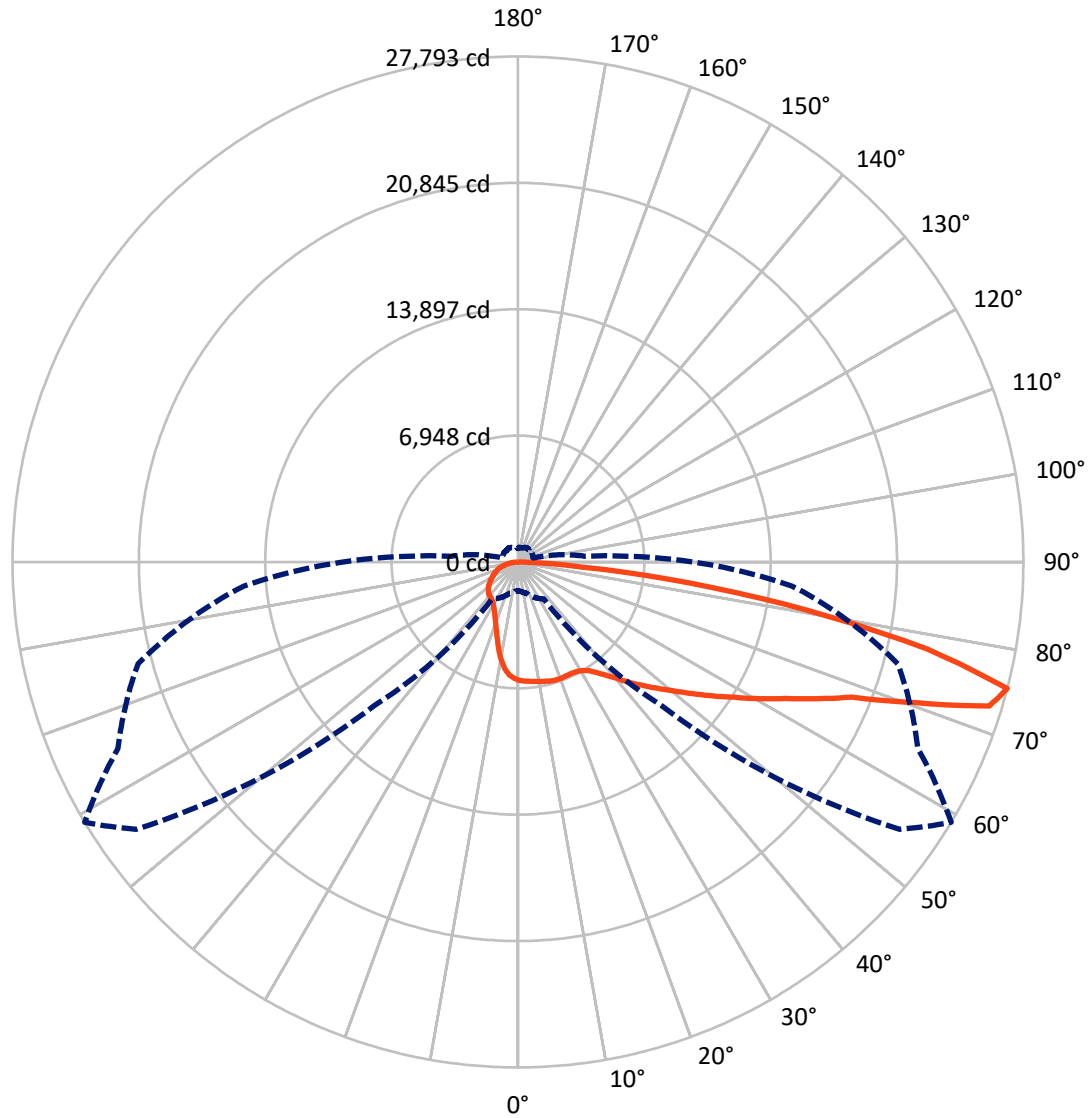
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	6648.9	0.0	6648.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28801.1	0.0	28801.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	35450.0	0.0	35450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.4	1.6
10°-20°	1491.3	4.2
20°-30°	2265.2	6.4
30°-40°	3367.1	9.5
40°-50°	5007.5	14.1
50°-60°	6797.1	19.2
60°-70°	8298.1	23.4
70°-80°	6512.2	18.4
80°-90°	1128.1	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°	35450.0	100.0
0°-180°	35450.0	100.0

Coefficient of Utilization



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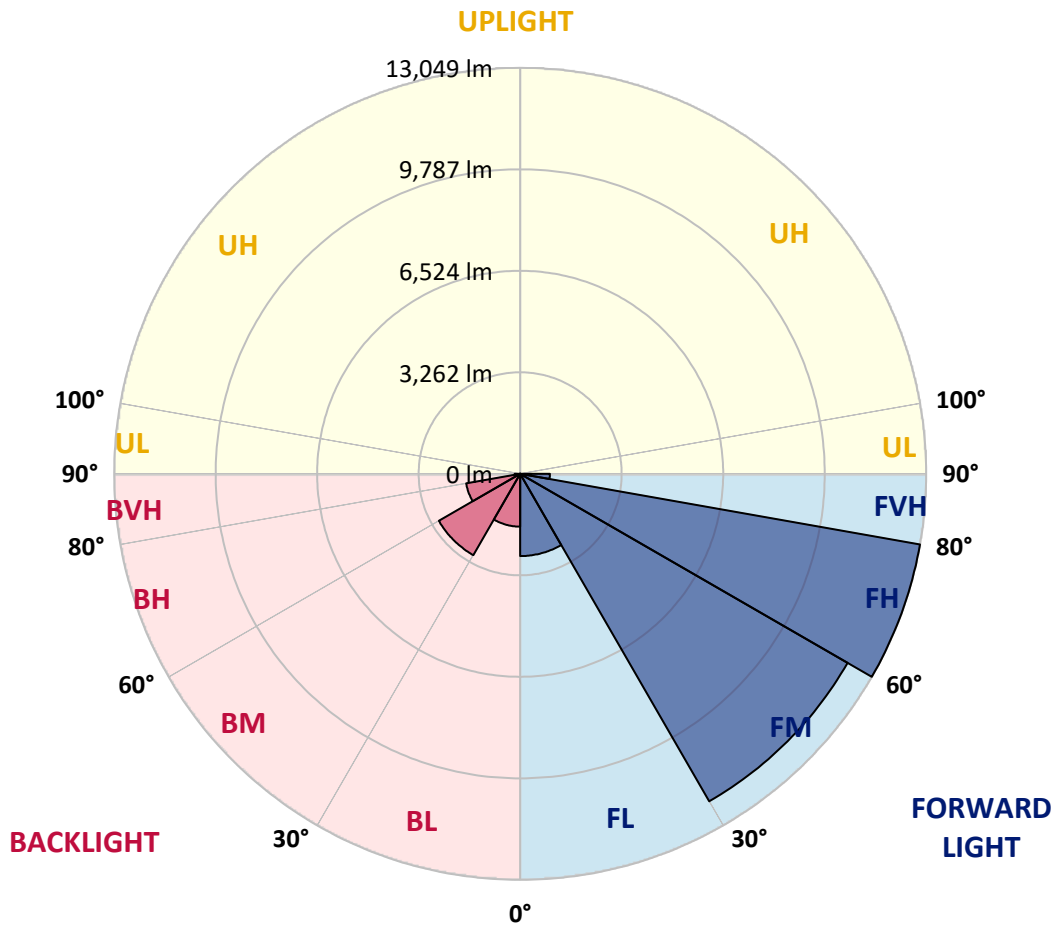
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.2	7.5			
FM (30°-60°)	12153.7	34.3			
FH (60°-80°)	13048.8	36.8			G5
FVH (80°-90°)	955.4	2.7			G5
BL (0°-30°)	1696.7	4.8	B3/2500		
BM (30°-60°)	3017.9	8.5	B3/5000		
BH (60°-80°)	1761.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	172.7	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°	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8
2.5°	6562.1	6539.2	6562.1	6552.5	6548.7	6541.1	6543.0	6556.4	6548.7	6558.3
5°	6518.2	6504.9	6527.7	6522.0	6546.8	6550.6	6575.4	6590.7	6600.2	6602.1
7.5°	6445.7	6432.4	6464.8	6491.5	6544.9	6560.2	6611.7	6636.4	6649.8	6672.7
10°	6180.7	6174.9	6255.0	6356.1	6482.0	6560.2	6638.4	6680.3	6701.3	6762.3
12.5°	5711.5	5719.2	5824.1	6018.6	6270.3	6522.0	6668.9	6729.9	6762.3	6838.6
15°	5263.4	5261.5	5375.9	5583.8	5936.6	6354.2	6684.1	6789.0	6844.3	6956.8
17.5°	5004.0	4996.4	5076.5	5234.8	5562.8	6096.8	6646.0	6821.4	6939.7	7080.8
20°	4956.4	4941.1	4983.1	5061.2	5293.9	5814.5	6546.8	6821.4	7015.9	7199.0
22.5°	5129.9	5105.1	5087.9	5078.4	5181.4	5581.9	6434.3	6798.5	7128.5	7368.7
25°	5478.9	5440.7	5353.0	5267.2	5236.7	5477.0	6335.1	6792.8	7296.3	7597.6
27.5°	6043.4	5995.7	5818.3	5612.4	5427.4	5530.4	6291.3	6827.1	7481.3	7839.8
30°	6743.2	6691.7	6468.6	6152.1	5820.2	5728.7	6346.6	6928.2	7717.7	8162.1
32.5°	7370.7	7313.4	7122.7	6800.5	6352.3	6072.0	6522.0	7120.8	8089.6	8610.2
35°	7927.5	7860.8	7689.1	7391.6	7004.5	6554.4	6838.6	7462.2	8617.8	9338.7
37.5°	8472.9	8394.7	8207.8	7893.2	7622.4	7197.1	7275.3	7900.8	9319.6	10223.6
40°	9083.2	8970.6	8743.7	8432.9	8169.7	7950.4	7849.3	8438.6	10032.9	11211.4
42.5°	9674.3	9567.5	9296.7	9031.7	8701.8	8638.8	8514.9	9067.9	10812.8	12296.5
45°	10311.3	10183.5	9855.5	9519.9	9312.0	9096.5	9159.4	9697.2	11577.5	13402.6
47.5°	10908.2	10765.2	10378.0	10004.3	9889.8	9481.7	9750.6	10389.5	12372.8	14523.9
50°	11230.5	11089.3	10767.1	10429.5	10339.9	9956.6	10391.4	11150.4	13206.1	15641.4
52.5°	11499.4	11346.8	10925.3	10738.5	10711.8	10473.4	11180.9	12020.0	14039.5	16629.3
55°	11785.4	11615.7	11077.9	10910.1	11032.1	11053.1	12117.2	13005.9	14920.6	17592.3
57.5°	12115.3	11899.8	11224.7	11055.0	11344.9	11732.0	13192.8	14028.1	15786.4	18484.8
60°	12426.2	12208.8	11507.0	11285.8	11682.4	12519.6	14426.6	15265.7	16766.6	19280.0
62.5°	12487.2	12307.9	11732.0	11730.1	12140.1	13438.8	15887.4	16514.8	17622.8	20065.7
65°	11430.7	11318.2	10976.8	11712.9	12796.1	14762.3	17514.1	18112.9	18711.7	20752.2
67.5°	8699.8	8715.1	8690.3	10111.0	12266.0	16663.6	19869.3	19823.5	20056.2	21522.7
70°	3978.1	4067.7	4651.2	6979.7	9826.9	16882.9	23763.4	23170.4	21743.9	22520.1
72.5°	2149.2	2217.9	2456.2	3381.2	5908.0	15010.2	26673.6	27095.0	23988.5	23191.3
75°	1577.1	1615.2	1781.2	2149.2	2481.0	11156.1	25630.4	27793.0	24268.8	21625.7
77.5°	1180.4	1197.6	1333.0	1703.0	1270.1	5881.3	20479.5	23017.8	20775.1	17767.7
80°	856.3	875.3	976.4	1277.7	890.6	2151.1	14062.4	16156.3	14228.3	11325.8
82.5°	591.2	598.8	642.7	869.6	621.7	835.3	7979.0	9474.1	7942.8	3974.2
85°	356.6	366.1	385.2	507.3	352.8	396.7	3444.1	3562.3	2374.2	949.7
87.5°	146.8	156.4	171.6	213.6	139.2	110.6	568.3	713.2	444.3	278.4
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°
6506.8	0°	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8	6506.8
6525.8	2.5°	6516.3	6503.0	6466.7	6417.1	6371.4	6314.2	6289.4	6268.4	6249.3	6213.1
6577.3	5°	6556.4	6520.1	6422.9	6297.0	6154.0	5997.6	5845.0	5740.1	5650.5	5583.8
6636.4	7.5°	6617.4	6548.7	6371.4	6113.9	5785.9	5450.3	5147.1	4931.6	4769.5	4710.4
6720.4	10°	6680.3	6598.3	6289.4	5835.5	5269.1	4752.3	4349.9	4128.7	3999.0	3957.1
6819.5	12.5°	6754.7	6634.5	6161.6	5448.4	4691.3	4124.9	3774.0	3644.3	3577.6	3554.7
6941.6	15°	6863.4	6665.1	5969.0	4964.0	4140.2	3667.2	3440.3	3350.6	3316.3	3314.4
7067.4	17.5°	6945.4	6670.8	5669.6	4445.3	3716.8	3390.7	3203.8	3169.5	3192.4	3226.7
7191.4	20°	7036.9	6619.3	5276.7	3972.3	3419.3	3148.5	3070.3	3093.2	3148.5	3198.1
7355.4	22.5°	7101.8	6525.8	4801.9	3604.3	3161.8	3009.3	3005.5	3053.1	3083.7	3108.5
7548.0	25°	7159.0	6367.6	4298.4	3295.3	2950.2	2925.4	2967.3	2952.1	2931.1	2952.1
7740.6	27.5°	7200.9	6117.7	3848.4	3024.5	2801.4	2868.2	2843.4	2809.0	2807.1	2818.6
7967.5	30°	7187.6	5784.0	3478.4	2767.1	2696.5	2761.4	2702.3	2696.5	2690.8	2696.5
8308.9	32.5°	7187.6	5404.5	3194.3	2589.7	2629.8	2605.0	2599.3	2585.9	2563.0	2561.1
8772.3	35°	7227.6	5025.0	2950.2	2494.4	2574.5	2515.4	2519.2	2486.8	2439.1	2416.2
9386.4	37.5°	7309.6	4719.9	2708.0	2448.6	2477.2	2475.3	2460.1	2404.8	2320.8	2248.4
10153.0	40°	7508.0	4630.3	2542.1	2427.6	2431.5	2454.3	2414.3	2307.5	2116.8	1998.6
10931.1	42.5°	7818.8	4780.9	2505.8	2376.2	2400.9	2423.8	2345.6	2097.7	1962.3	1891.8
11747.3	45°	8213.6	5044.1	2584.0	2301.8	2328.5	2368.5	2135.9	2017.6	1956.6	1958.5
12555.9	47.5°	8713.2	5320.6	2729.0	2236.9	2223.6	2246.5	1996.7	1924.2	1840.3	1861.3
13332.0	50°	9291.0	5600.9	2866.3	2149.2	2107.3	2032.9	1907.0	1838.4	1731.6	1682.0
14081.5	52.5°	9916.5	5871.7	2921.6	2042.4	1981.4	1895.6	1846.0	1762.1	1632.4	1550.4
14789.0	55°	10509.6	6117.7	2860.5	1914.7	1855.5	1788.8	1781.2	1729.7	1590.5	1476.0
15418.3	57.5°	11070.3	6323.7	2708.0	1785.0	1727.8	1687.7	1739.2	1714.4	1539.0	1392.1
16013.3	60°	11545.1	6464.8	2486.8	1653.4	1613.3	1592.4	1670.6	1662.9	1466.5	1302.5
16547.3	62.5°	11922.7	6520.1	2242.7	1527.5	1518.0	1479.9	1575.2	1575.2	1375.0	1214.8
17016.4	65°	12218.3	6466.7	1994.7	1403.6	1422.6	1365.4	1458.9	1447.4	1277.7	1136.6
17556.1	67.5°	12479.6	6291.3	1720.1	1281.5	1325.4	1252.9	1336.8	1310.1	1170.9	1058.4
18023.3	70°	12595.9	5883.2	1407.4	1159.5	1212.9	1142.3	1214.8	1165.2	1050.8	974.5
17510.3	72.5°	11661.5	4889.6	1108.0	1031.7	1077.5	1020.3	1083.2	1026.0	921.1	886.8
15120.8	75°	9647.6	3669.1	852.4	892.5	926.8	883.0	924.9	883.0	787.6	812.4
11169.4	77.5°	7006.4	2477.2	652.2	745.6	760.9	738.0	774.3	726.6	640.8	635.0
5566.6	80°	3484.1	1451.2	511.1	589.3	583.5	568.3	610.2	587.4	514.9	545.4
1502.7	82.5°	1008.8	621.7	371.9	413.8	402.4	406.2	436.7	448.2	671.3	665.6
467.2	85°	316.6	244.1	223.1	230.7	219.3	225.0	257.4	511.1	472.9	276.5
144.9	87.5°	82.0	83.9	55.3	59.1	61.0	72.5	82.0	310.8	148.7	97.3
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>
6506.8
6195.9
5528.5
4607.4
3892.2
3560.4
3322.0
3240.0
3215.2
3121.8
2965.4
2837.7
2717.5
2585.9
2439.1
2273.2
2013.8
1891.8
1968.0
1914.7
1695.3
1548.5
1476.0
1384.5
1296.8
1209.1
1129.0
1050.8
959.2
858.2
741.8
606.4
539.7
680.8
299.4
103.0
0.0

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