

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: P949897

Luminaire Tested: **GALN-SB4C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29833 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

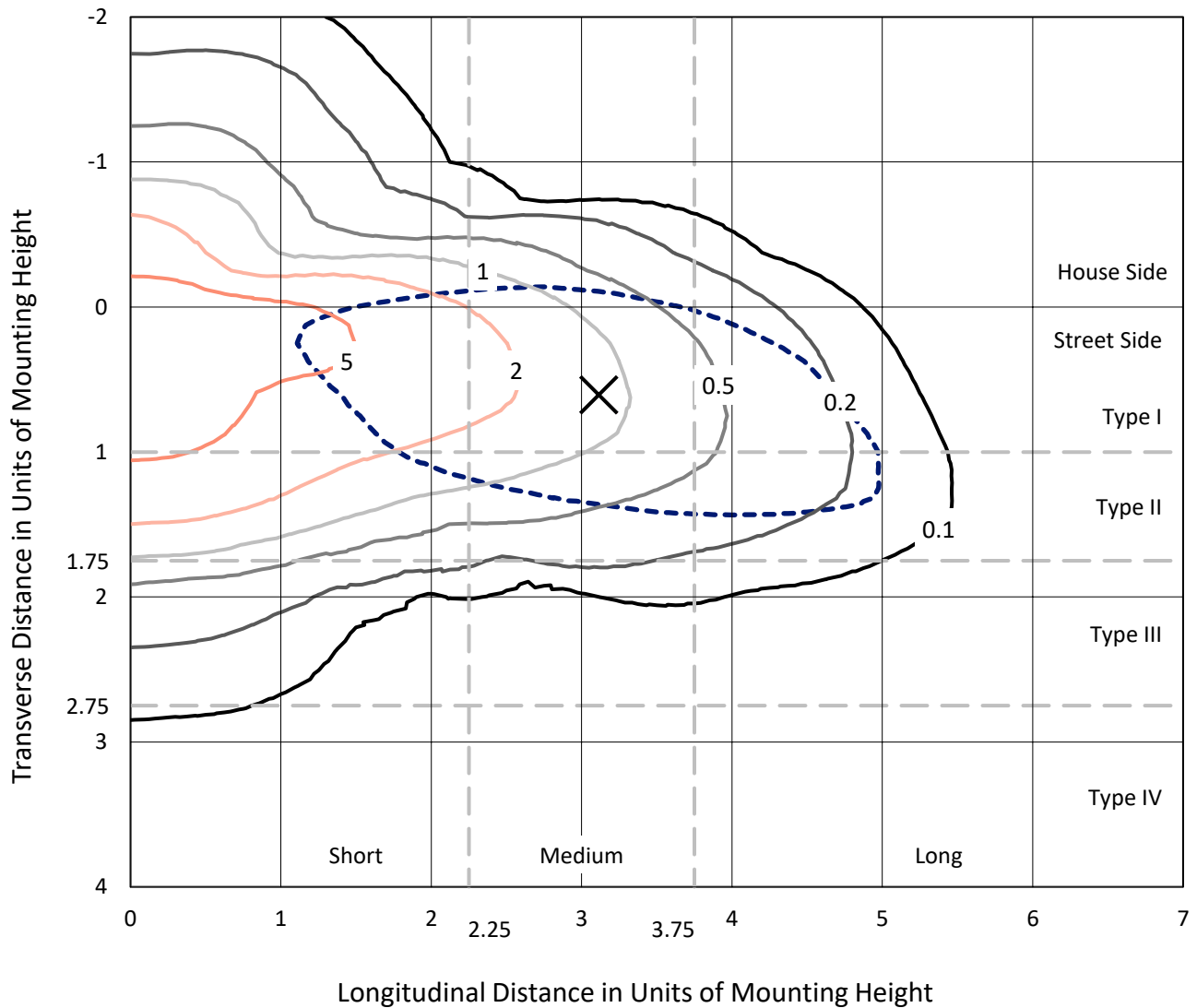
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

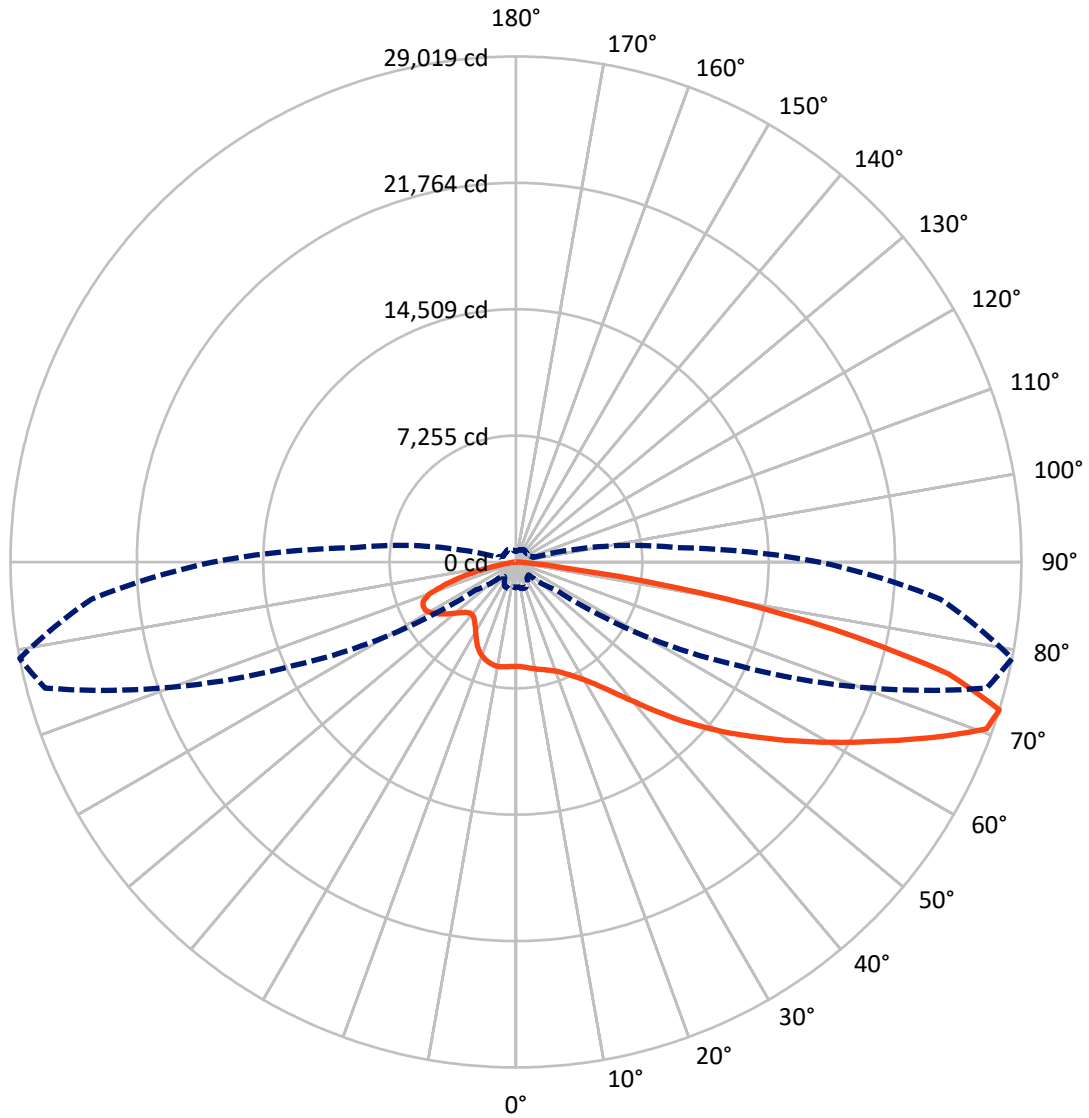
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6564.9	0.0	6564.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23268.1	0.0	23268.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	29833.0	0.0	29833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.6	1.8
10°-20°	1421.2	4.8
20°-30°	2293.3	7.7
30°-40°	3441.9	11.5
40°-50°	4882.6	16.4
50°-60°	6166.0	20.7
60°-70°	6262.4	21.0
70°-80°	4268.1	14.3
80°-90°	553.8	1.9
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°	29833.0	100.0
0°-180°	29833.0	100.0

Coefficient of Utilization



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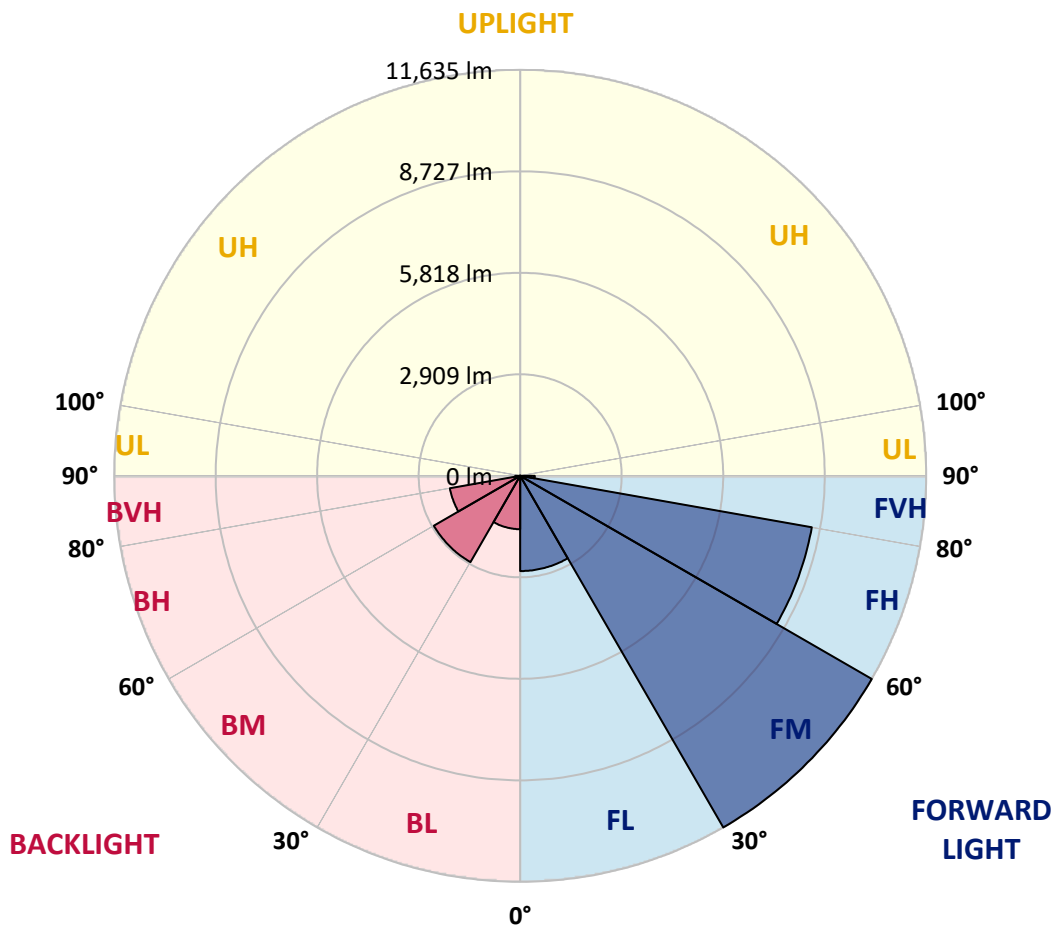
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2729.0	9.1			
FM (30°-60°)	11635.5	39.0			
FH (60°-80°)	8486.5	28.4			G4/12000
FVH (80°-90°)	417.1	1.4			G3/500
BL (0°-30°)	1529.2	5.1	B3/2500		
BM (30°-60°)	2855.0	9.6	B3/5000		
BH (60°-80°)	2044.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	136.6	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7
2.5°	5991.8	5963.4	5980.8	5974.5	5982.4	5991.8	5995.0	5999.7	6015.5	6013.9
5°	5979.2	5950.8	5974.5	5966.6	5987.1	6009.2	6028.1	6045.5	6070.7	6081.8
7.5°	5952.4	5933.5	5957.1	5980.8	6018.7	6051.8	6078.6	6118.1	6154.4	6160.7
10°	5796.2	5782.0	5837.2	5898.7	6002.9	6092.8	6151.2	6197.0	6236.4	6242.8
12.5°	5633.6	5616.3	5677.8	5761.5	5930.3	6092.8	6215.9	6275.9	6310.6	6331.1
15°	5606.8	5592.6	5627.3	5699.9	5840.4	6050.2	6260.1	6370.6	6400.6	6424.2
17.5°	5736.2	5709.4	5723.6	5748.8	5830.9	6010.8	6294.8	6477.9	6523.6	6548.9
20°	6036.0	5998.2	5976.1	5925.6	5911.4	6017.1	6291.7	6607.3	6667.3	6698.8
22.5°	6435.3	6410.0	6362.7	6234.9	6096.0	6094.4	6351.6	6773.0	6885.0	6915.0
25°	6918.2	6880.3	6820.3	6646.7	6380.0	6247.5	6452.6	6984.4	7172.2	7180.1
27.5°	7473.6	7416.8	7334.8	7105.9	6746.2	6487.4	6607.3	7227.5	7502.0	7498.9
30°	8059.1	8002.3	7915.5	7637.8	7184.9	6810.9	6821.9	7489.4	7893.4	7876.0
32.5°	8486.7	8444.1	8426.8	8212.2	7689.8	7192.7	7068.1	7779.8	8376.3	8360.5
35°	8815.0	8759.7	8780.3	8671.4	8240.6	7620.4	7369.5	8125.4	8963.3	8961.7
37.5°	9140.1	9091.1	9108.5	9035.9	8750.3	8163.2	7737.2	8548.3	9690.8	9725.5
40°	9436.7	9384.6	9454.1	9386.2	9146.4	8740.8	8155.4	9026.4	10533.5	10599.7
42.5°	9615.0	9574.0	9689.2	9690.8	9490.4	9228.4	8614.6	9553.5	11508.7	11657.0
45°	9676.6	9662.4	9836.0	9872.3	9794.9	9510.9	9028.0	10127.9	12559.7	12824.8
47.5°	9610.3	9583.5	9823.3	9957.5	10019.0	9643.4	9370.4	10749.7	13632.8	14021.0
50°	9275.8	9223.7	9580.3	9862.8	10082.1	9730.2	9716.0	11467.7	14852.6	15277.1
52.5°	8674.5	8635.1	9040.6	9531.4	9943.3	9772.8	10104.2	12252.0	16010.9	16560.0
55°	7906.0	7853.9	8300.5	8941.2	9597.7	9758.6	10492.4	13129.4	17377.5	17934.5
57.5°	6687.8	6583.6	7148.6	7906.0	9034.3	9741.3	10896.4	14002.0	18766.1	19433.7
60°	4910.9	4756.2	5449.0	6346.9	7932.8	9572.4	11396.7	14980.4	20432.6	21033.8
62.5°	2859.4	2769.5	3222.4	4060.3	5979.2	8578.3	11677.6	16118.2	22070.6	22701.8
65°	2220.3	2195.1	2234.5	2299.2	3328.1	6422.7	10811.2	17227.5	24153.6	24595.5
67.5°	2030.9	2012.0	2029.4	1907.9	1688.5	3577.4	8553.0	17508.4	26385.0	26653.2
70°	1805.3	1783.2	1840.0	1735.9	1328.7	1627.0	5526.3	16489.0	28160.3	28663.7
72.5°	1470.7	1445.5	1578.0	1530.7	1118.8	1044.7	2775.8	14066.7	27974.1	29018.7
75°	1129.9	1115.7	1273.5	1312.9	912.1	822.2	1331.9	10456.1	24617.5	25670.1
77.5°	877.4	866.3	946.8	1090.4	735.4	637.5	819.0	6632.5	18551.5	18736.2
80°	658.0	626.5	700.7	844.3	572.8	465.5	555.5	3867.8	11726.5	10629.7
82.5°	411.9	396.1	457.6	563.4	404.0	320.3	361.4	2136.7	4699.4	2767.9
85°	235.1	228.8	249.3	321.9	219.3	184.6	206.7	943.7	858.5	590.2
87.5°	94.7	91.5	113.6	143.6	80.5	67.9	72.6	227.2	189.4	175.2
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°
5988.7	0°	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7
6012.4	2.5°	6006.0	6006.0	5984.0	5949.2	5909.8	5884.5	5843.5	5832.5	5789.9	5777.2
6066.0	5°	6078.6	6066.0	5998.2	5900.3	5766.2	5643.1	5507.4	5422.2	5302.2	5259.6
6171.7	7.5°	6170.2	6135.4	6018.7	5804.1	5523.2	5247.0	4959.8	4742.0	4533.7	4459.6
6258.5	10°	6253.8	6204.9	6006.0	5630.5	5144.4	4666.3	4208.7	3888.3	3645.3	3545.9
6354.8	12.5°	6337.4	6247.5	5922.4	5341.7	4606.3	3957.7	3470.1	3220.8	3070.9	2950.9
6433.7	15°	6416.3	6290.1	5793.0	4955.1	4016.1	3358.1	2998.3	2799.5	2679.5	2600.6
6548.9	17.5°	6507.9	6326.4	5598.9	4464.3	3454.3	2943.1	2649.5	2529.6	2505.9	2496.5
6706.7	20°	6635.7	6359.5	5343.3	3915.1	3040.9	2611.7	2460.2	2449.1	2447.6	2442.8
6896.1	22.5°	6773.0	6399.0	5005.6	3416.5	2689.0	2404.9	2378.1	2356.0	2341.8	2340.2
7124.9	25°	6935.5	6411.6	4582.7	3007.8	2389.2	2307.1	2275.5	2242.4	2232.9	2232.9
7385.3	27.5°	7093.3	6369.0	4090.3	2652.7	2220.3	2217.2	2176.1	2165.1	2163.5	2168.2
7681.9	30°	7251.1	6288.5	3601.1	2324.5	2122.5	2122.5	2108.3	2116.2	2122.5	2138.3
8089.1	32.5°	7464.2	6203.3	3192.4	2081.4	2037.3	2021.5	2035.7	2051.5	2057.8	2078.3
8624.0	35°	7776.6	6143.3	2867.3	1948.9	1948.9	1928.4	1936.3	1933.1	1918.9	1909.4
9271.0	37.5°	8190.1	6140.2	2599.0	1887.3	1874.7	1871.6	1873.1	1852.6	1797.4	1731.1
10053.7	40°	8687.2	6225.4	2392.3	1844.7	1835.3	1854.2	1844.7	1789.5	1638.0	1522.8
11016.4	42.5°	9354.7	6468.4	2259.8	1792.7	1821.1	1844.7	1806.9	1615.9	1513.3	1436.0
12113.1	45°	10140.5	6862.9	2191.9	1737.4	1794.2	1822.6	1639.6	1556.0	1473.9	1380.8
13309.3	47.5°	11030.6	7360.0	2176.1	1685.4	1734.3	1751.6	1568.6	1530.7	1437.6	1336.6
14511.7	50°	11999.5	7948.6	2218.7	1623.8	1647.5	1587.5	1544.9	1510.2	1413.9	1314.5
15744.2	52.5°	13001.5	8597.2	2303.9	1540.2	1560.7	1494.4	1535.4	1505.5	1399.7	1265.6
17017.7	55°	13986.2	9250.5	2386.0	1442.3	1472.3	1410.8	1508.6	1486.5	1335.0	1183.5
18376.4	57.5°	14986.7	9900.7	2466.5	1355.5	1387.1	1330.3	1466.0	1436.0	1262.4	1107.8
19859.7	60°	16026.7	10531.9	2504.4	1271.9	1294.0	1256.1	1401.3	1349.2	1180.4	1030.5
21317.8	62.5°	17000.3	11057.4	2442.8	1188.3	1202.5	1186.7	1316.1	1246.7	1098.3	943.7
22837.5	65°	17977.1	11369.8	2253.5	1106.2	1109.4	1101.5	1196.2	1136.2	1002.1	867.9
24167.8	67.5°	18862.4	11545.0	1952.0	1017.8	1010.0	1006.8	1084.1	1016.3	909.0	792.2
25179.3	70°	19050.2	11100.0	1491.3	913.7	913.7	905.8	961.0	891.6	806.4	711.7
24455.0	72.5°	17399.6	9337.3	1058.9	795.3	808.0	792.2	837.9	779.6	702.2	639.1
21076.4	75°	14030.4	6847.1	770.1	673.8	695.9	669.1	711.7	670.7	604.4	602.8
14524.4	77.5°	9640.3	4233.9	558.6	555.5	571.3	536.5	585.5	563.4	503.4	476.6
6321.7	80°	4114.0	1688.5	407.1	429.2	429.2	397.7	454.5	460.8	408.7	396.1
1219.8	82.5°	819.0	479.7	285.6	295.1	277.7	268.3	321.9	356.6	492.4	547.6
367.7	85°	246.2	176.7	172.0	161.0	142.0	143.6	189.4	358.2	441.9	252.5
121.5	87.5°	67.9	44.2	45.8	36.3	30.0	39.5	64.7	271.4	148.3	63.1
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>
5988.7
5797.7
5291.2
4469.0
3568.0
2990.4
2614.8
2502.8
2458.6
2357.6
2242.4
2180.9
2149.3
2095.6
1931.5
1732.7
1519.7
1432.9
1374.5
1328.7
1303.5
1256.1
1175.6
1104.6
1025.7
942.1
858.5
782.7
708.5
620.2
542.8
446.6
396.1
549.2
217.8
53.7
0.0

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