

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: P949918

Luminaire Tested: **GALN-SB4C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949918
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-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 31562 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

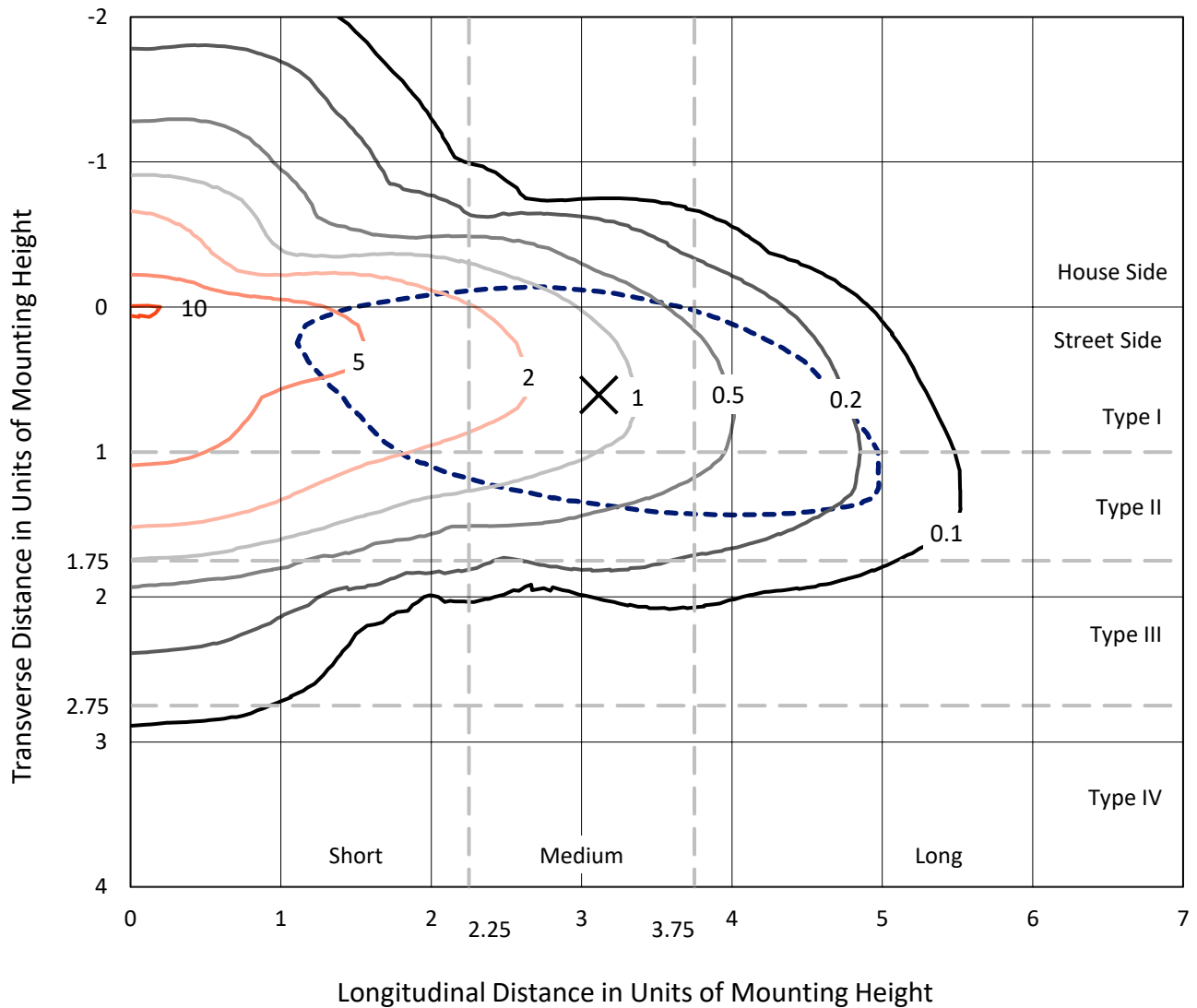
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

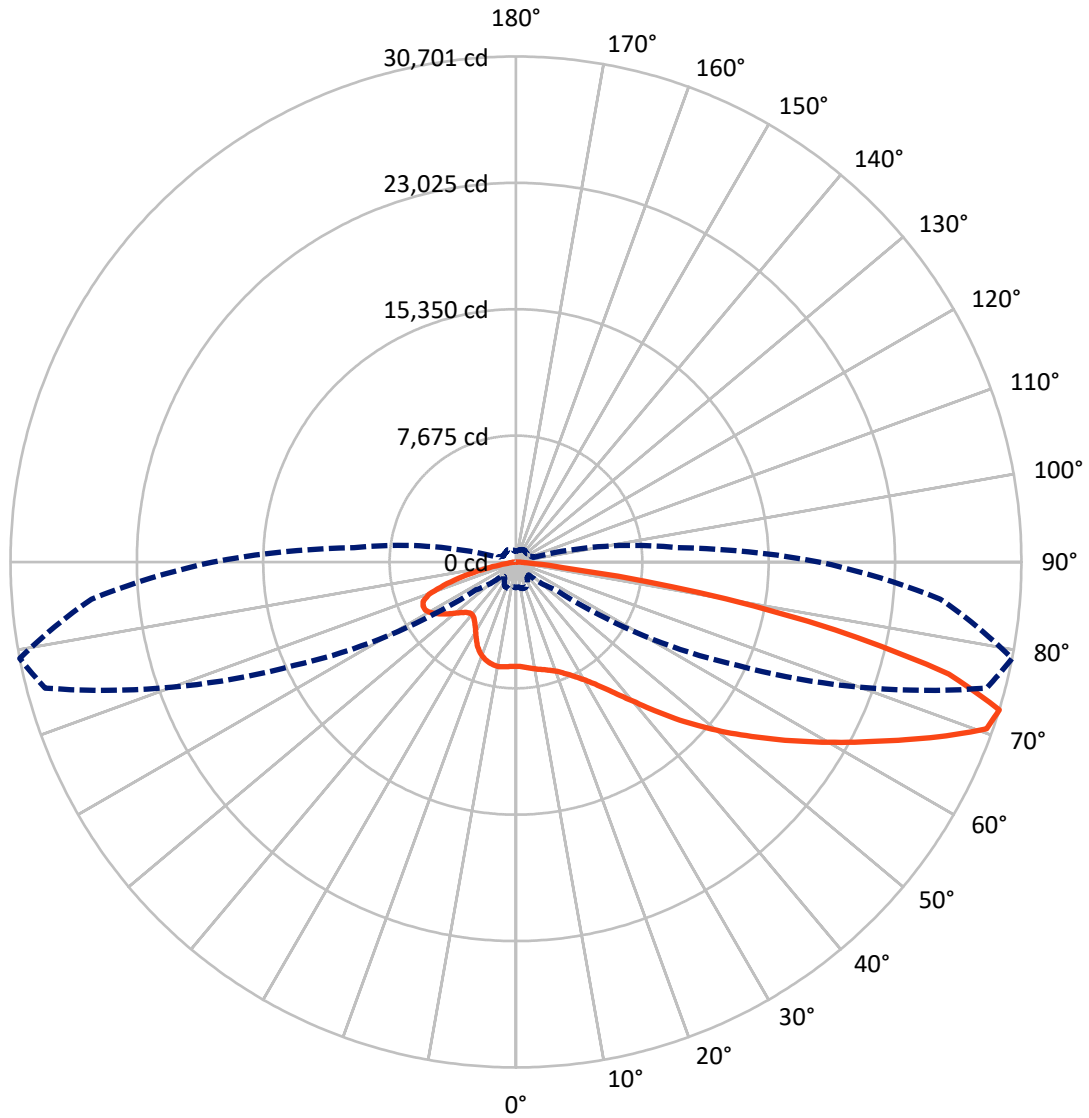
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	6945.4	0.0	6945.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24616.6	0.0	24616.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	31562.0	0.0	31562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.1	1.8
10°-20°	1503.6	4.8
20°-30°	2426.2	7.7
30°-40°	3641.4	11.5
40°-50°	5165.5	16.4
50°-60°	6523.4	20.7
60°-70°	6625.4	21.0
70°-80°	4515.5	14.3
80°-90°	585.8	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°	31562.0	100.0
0°-180°	31562.0	100.0



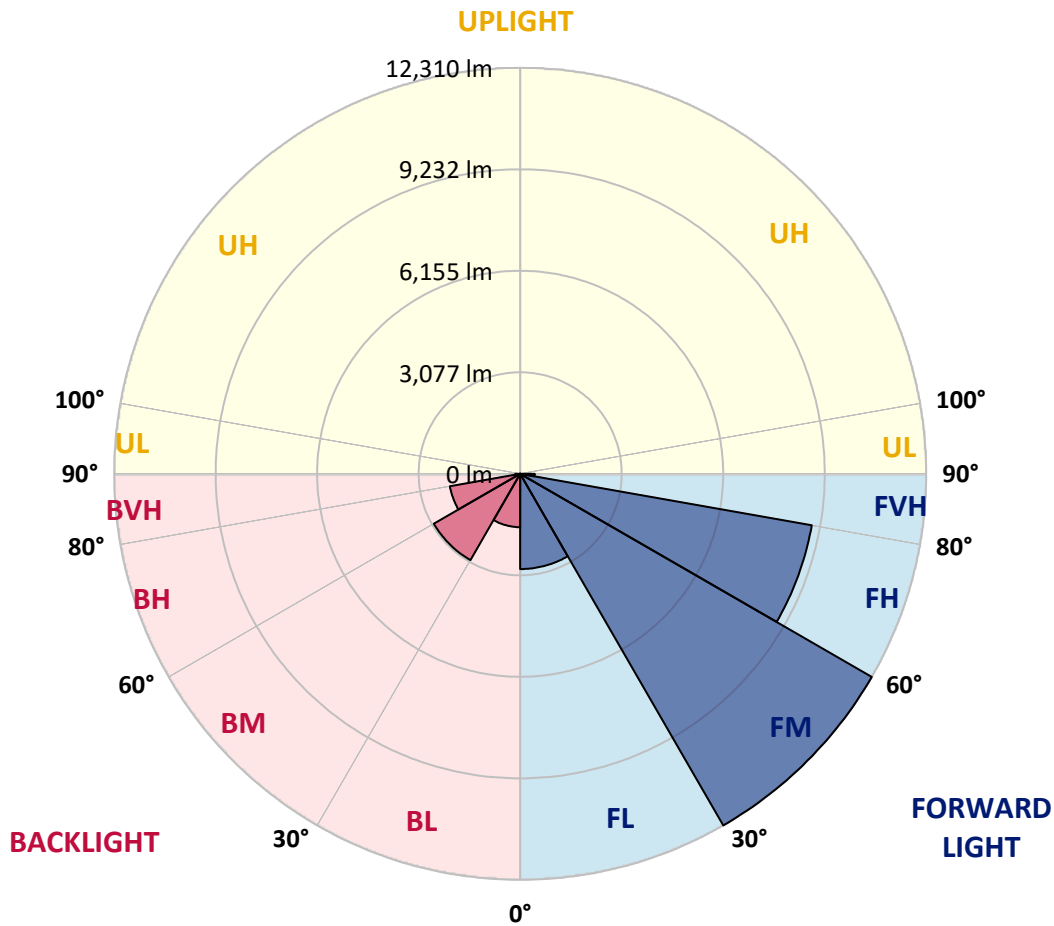
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.2	9.1			
FM (30°-60°)	12309.8	39.0			
FH (60°-80°)	8978.3	28.4			G4/12000
FVH (80°-90°)	441.3	1.4			G3/500
BL (0°-30°)	1617.8	5.1	B3/2500		
BM (30°-60°)	3020.5	9.6	B3/5000		
BH (60°-80°)	2162.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	144.5	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°	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8
2.5°	6339.1	6309.1	6327.4	6320.7	6329.1	6339.1	6342.4	6347.5	6364.2	6362.5
5°	6325.8	6295.7	6320.7	6312.4	6334.1	6357.5	6377.5	6395.9	6422.6	6434.3
7.5°	6297.4	6277.3	6302.4	6327.4	6367.5	6402.6	6430.9	6472.7	6511.1	6517.7
10°	6132.1	6117.1	6175.5	6240.6	6350.8	6446.0	6507.7	6556.1	6597.9	6604.6
12.5°	5960.1	5941.8	6006.9	6095.4	6274.0	6446.0	6576.2	6639.6	6676.4	6698.1
15°	5931.8	5916.7	5953.5	6030.3	6178.8	6400.9	6622.9	6739.8	6771.5	6796.6
17.5°	6068.7	6040.3	6055.3	6082.0	6168.8	6359.1	6659.7	6853.3	6901.7	6928.4
20°	6385.9	6345.8	6322.4	6269.0	6254.0	6365.8	6656.3	6990.2	7053.7	7087.0
22.5°	6808.2	6781.5	6731.4	6596.2	6449.3	6447.6	6719.8	7165.5	7284.1	7315.8
25°	7319.1	7279.0	7215.6	7032.0	6749.8	6609.6	6826.6	7389.2	7587.9	7596.2
27.5°	7906.8	7846.7	7759.9	7517.8	7137.1	6863.3	6990.2	7646.3	7936.8	7933.5
30°	8526.2	8466.1	8374.2	8080.4	7601.3	7205.6	7217.3	7923.5	8350.9	8332.5
32.5°	8978.6	8933.5	8915.2	8688.1	8135.5	7609.6	7477.7	8230.7	8861.7	8845.0
35°	9325.9	9267.4	9289.1	9173.9	8718.2	8062.0	7796.6	8596.3	9482.8	9481.1
37.5°	9669.8	9618.0	9636.4	9559.6	9257.4	8636.3	8185.6	9043.7	10252.4	10289.2
40°	9983.6	9928.5	10002.0	9930.2	9676.5	9247.4	8628.0	9549.6	11143.9	11214.1
42.5°	10172.3	10128.9	10250.8	10252.4	10040.4	9763.3	9113.8	10107.2	12175.7	12332.6
45°	10237.4	10222.4	10406.0	10444.4	10362.6	10062.1	9551.2	10714.9	13287.6	13568.1
47.5°	10167.3	10138.9	10392.7	10534.6	10599.7	10202.3	9913.5	11372.7	14422.9	14833.6
50°	9813.4	9758.3	10135.6	10434.4	10666.5	10294.2	10279.1	12132.3	15713.4	16162.5
52.5°	9177.3	9135.5	9564.6	10083.8	10519.6	10339.2	10689.8	12962.0	16938.8	17519.8
55°	8364.2	8309.1	8781.6	9459.4	10153.9	10324.2	11100.5	13890.3	18384.6	18973.9
57.5°	7075.4	6965.2	7562.9	8364.2	9557.9	10305.9	11527.9	14813.5	19853.8	20560.0
60°	5195.5	5031.9	5764.8	6714.7	8392.6	10127.2	12057.2	15848.6	21616.8	22252.8
62.5°	3025.1	2930.0	3409.1	4295.6	6325.8	9075.4	12354.3	17052.3	23349.7	24017.5
65°	2349.0	2322.3	2364.0	2432.5	3521.0	6794.9	11437.8	18226.0	25553.4	26020.9
67.5°	2148.7	2128.6	2147.0	2018.4	1786.4	3784.8	9048.7	18523.2	27914.1	28197.9
70°	1909.9	1886.5	1946.6	1836.5	1405.7	1721.3	5846.6	17444.7	29792.3	30324.9
72.5°	1556.0	1529.3	1669.5	1619.4	1183.7	1105.2	2936.7	14882.0	29595.3	30700.5
75°	1195.4	1180.3	1347.3	1389.0	965.0	869.8	1409.1	11062.1	26044.3	27157.8
77.5°	928.2	916.6	1001.7	1153.6	778.0	674.5	866.5	7016.9	19626.7	19822.0
80°	696.2	662.8	741.3	893.2	606.0	492.5	587.7	4092.0	12406.1	11245.8
82.5°	435.7	419.0	484.2	596.0	427.4	338.9	382.3	2260.5	4971.8	2928.3
85°	248.8	242.1	263.8	340.6	232.1	195.3	218.7	998.4	908.2	624.4
87.5°	100.2	96.8	120.2	151.9	85.1	71.8	76.8	240.4	200.3	185.3
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°
6335.8	0°	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8	6335.8
6360.8	2.5°	6354.1	6354.1	6330.8	6294.0	6252.3	6225.6	6182.2	6170.5	6125.4	6112.1
6417.6	5°	6430.9	6417.6	6345.8	6242.3	6100.4	5970.1	5826.6	5736.4	5609.5	5564.5
6529.4	7.5°	6527.8	6491.0	6367.5	6140.4	5843.3	5551.1	5247.3	5016.9	4796.5	4718.0
6621.3	10°	6616.2	6564.5	6354.1	5956.8	5442.6	4936.7	4452.6	4113.7	3856.6	3751.4
6723.1	12.5°	6704.7	6609.6	6265.7	5651.3	4873.3	4187.1	3671.2	3407.5	3248.9	3122.0
6806.6	15°	6788.2	6654.6	6128.8	5242.2	4248.9	3552.7	3172.1	2961.7	2834.8	2751.3
6928.4	17.5°	6885.0	6693.0	5923.4	4723.0	3654.5	3113.6	2803.1	2676.2	2651.2	2641.2
7095.4	20°	7020.3	6728.1	5652.9	4142.0	3217.1	2763.0	2602.8	2591.1	2589.4	2584.4
7295.7	22.5°	7165.5	6769.8	5295.7	3614.5	2844.8	2544.3	2515.9	2492.6	2477.5	2475.9
7537.8	25°	7337.5	6783.2	4848.2	3182.1	2527.6	2440.8	2407.4	2372.4	2362.3	2362.3
7813.3	27.5°	7504.4	6738.1	4327.4	2806.4	2349.0	2345.7	2302.2	2290.6	2288.9	2293.9
8127.2	30°	7671.4	6653.0	3809.8	2459.2	2245.5	2245.5	2230.5	2238.8	2245.5	2262.2
8557.9	32.5°	7896.8	6562.8	3377.4	2202.1	2155.3	2138.6	2153.7	2170.4	2177.0	2198.7
9123.8	35°	8227.3	6499.4	3033.5	2061.8	2061.8	2040.1	2048.5	2045.1	2030.1	2020.1
9808.3	37.5°	8664.7	6496.0	2749.7	1996.7	1983.4	1980.0	1981.7	1960.0	1901.6	1831.4
10636.4	40°	9190.6	6586.2	2531.0	1951.7	1941.6	1961.7	1951.7	1893.2	1732.9	1611.1
11654.8	42.5°	9896.8	6843.3	2390.7	1896.6	1926.6	1951.7	1911.6	1709.6	1601.1	1519.2
12815.1	45°	10728.2	7260.7	2318.9	1838.1	1898.2	1928.3	1734.6	1646.1	1559.3	1460.8
14080.6	47.5°	11669.8	7786.6	2302.2	1783.0	1834.8	1853.2	1659.5	1619.4	1520.9	1414.1
15352.8	50°	12694.9	8409.3	2347.3	1717.9	1743.0	1679.5	1634.4	1597.7	1495.9	1390.7
16656.7	52.5°	13755.1	9095.5	2437.5	1629.4	1651.1	1581.0	1624.4	1592.7	1480.9	1338.9
18003.9	55°	14796.8	9786.6	2524.3	1525.9	1557.6	1492.5	1596.0	1572.7	1412.4	1252.1
19441.4	57.5°	15855.3	10474.5	2609.4	1434.1	1467.5	1407.4	1551.0	1519.2	1335.6	1172.0
21010.7	60°	16955.5	11142.3	2649.5	1345.6	1369.0	1328.9	1482.5	1427.4	1248.8	1090.2
22553.3	62.5°	17985.6	11698.2	2584.4	1257.1	1272.2	1255.5	1392.4	1318.9	1162.0	998.4
24161.1	65°	19019.0	12028.8	2384.1	1170.3	1173.7	1165.3	1265.5	1202.0	1060.1	918.2
25568.5	67.5°	19955.6	12214.1	2065.2	1076.8	1068.5	1065.1	1146.9	1075.2	961.6	838.1
26638.6	70°	20154.3	11743.3	1577.7	966.6	966.6	958.3	1016.7	943.3	853.1	752.9
25872.3	72.5°	18408.0	9878.5	1120.2	841.4	854.8	838.1	886.5	824.7	742.9	676.1
22297.9	75°	14843.6	7244.0	814.7	712.9	736.3	707.9	752.9	709.5	639.4	637.8
15366.1	77.5°	10199.0	4479.3	591.0	587.7	604.4	567.6	619.4	596.0	532.6	504.2
6688.0	80°	4352.4	1786.4	430.7	454.1	454.1	420.7	480.8	487.5	432.4	419.0
1290.5	82.5°	866.5	507.5	302.2	312.2	293.8	283.8	340.6	377.3	520.9	579.3
389.0	85°	260.4	187.0	182.0	170.3	150.3	151.9	200.3	379.0	467.5	267.1
128.6	87.5°	71.8	46.7	48.4	38.4	31.7	41.7	68.4	287.2	156.9	66.8
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>
6335.8
6133.8
5597.9
4728.0
3774.8
3163.7
2766.4
2647.8
2601.1
2494.2
2372.4
2307.3
2273.9
2217.1
2043.5
1833.1
1607.7
1515.9
1454.1
1405.7
1379.0
1328.9
1243.8
1168.7
1085.2
996.7
908.2
828.1
749.6
656.1
574.3
472.5
419.0
581.0
230.4
56.8
0.0

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