

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: P952480

Luminaire Tested: **GALN-SB6B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952480
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-SB6B-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29513 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

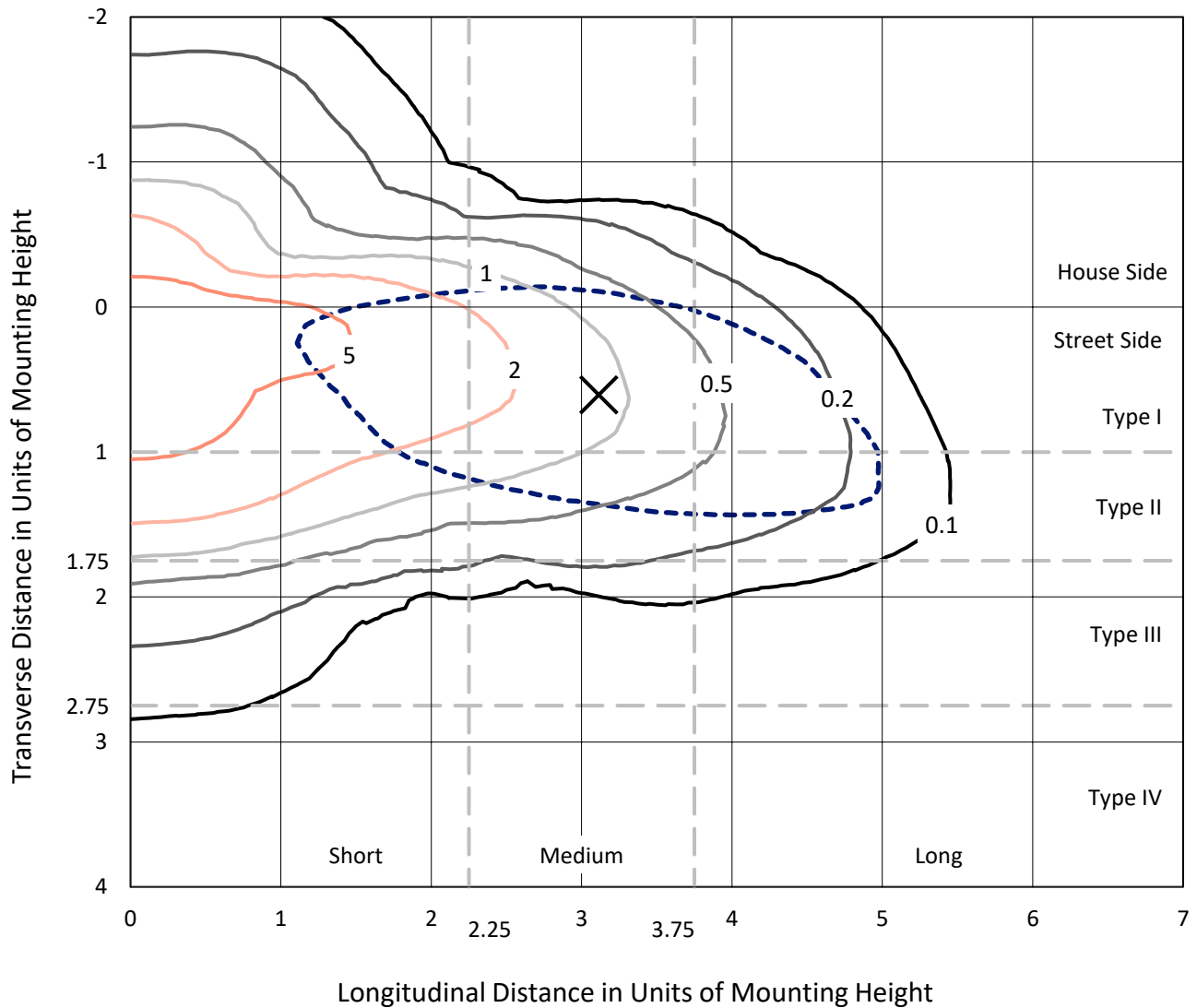
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952480
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Iso-Footcandle Lines of Horizontal Illumination

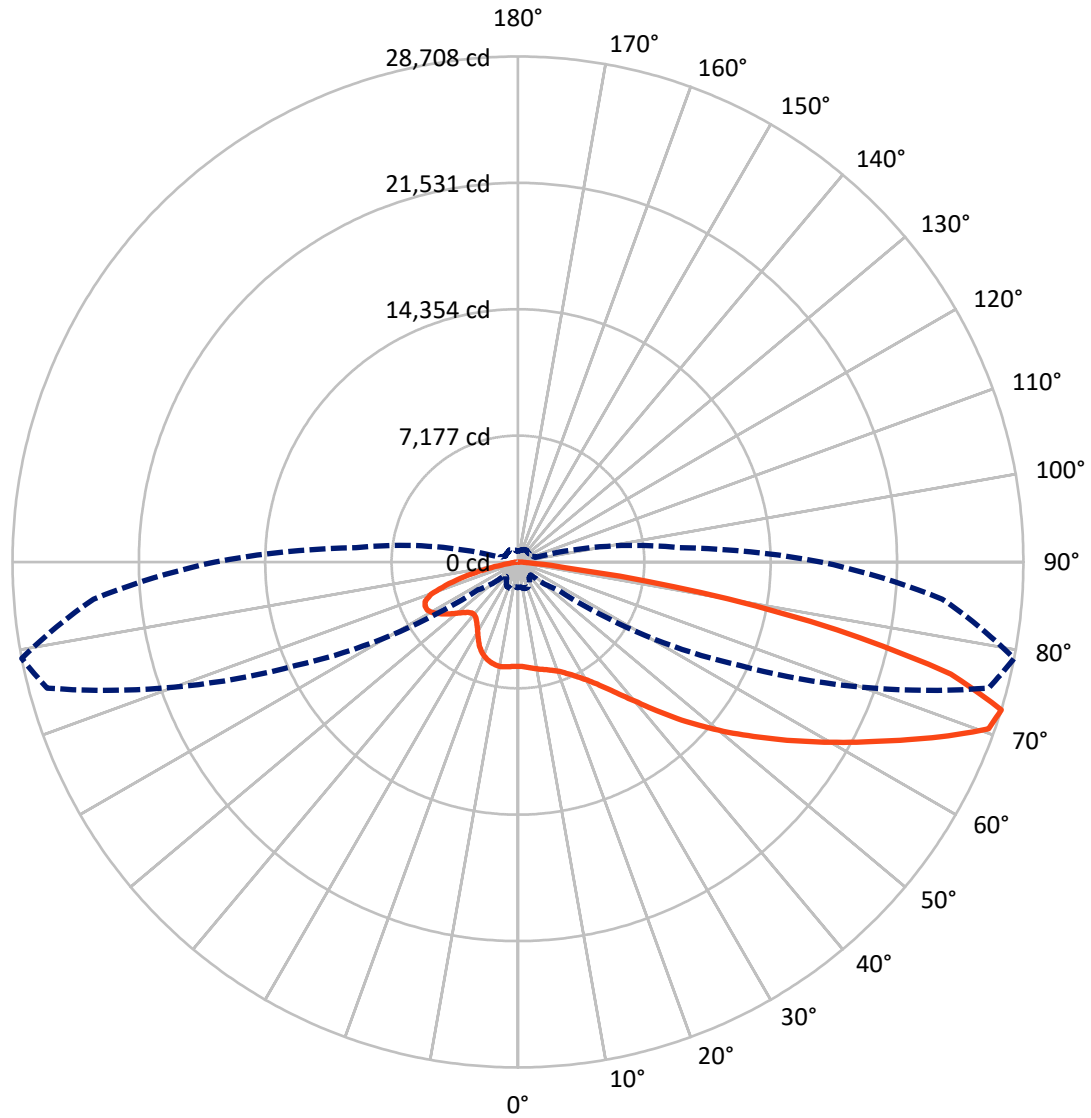
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P952480
CATALOG NUMBER: GALN-SB6B-827-U-SL2

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	6494.5	0.0	6494.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23018.5	0.0	23018.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	29513.0	0.0	29513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.8	1.8
10°-20°	1406.0	4.8
20°-30°	2268.7	7.7
30°-40°	3405.0	11.5
40°-50°	4830.2	16.4
50°-60°	6099.9	20.7
60°-70°	6195.3	21.0
70°-80°	4222.4	14.3
80°-90°	547.8	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°	29513.0	100.0
0°-180°	29513.0	100.0

Coefficient of Utilization



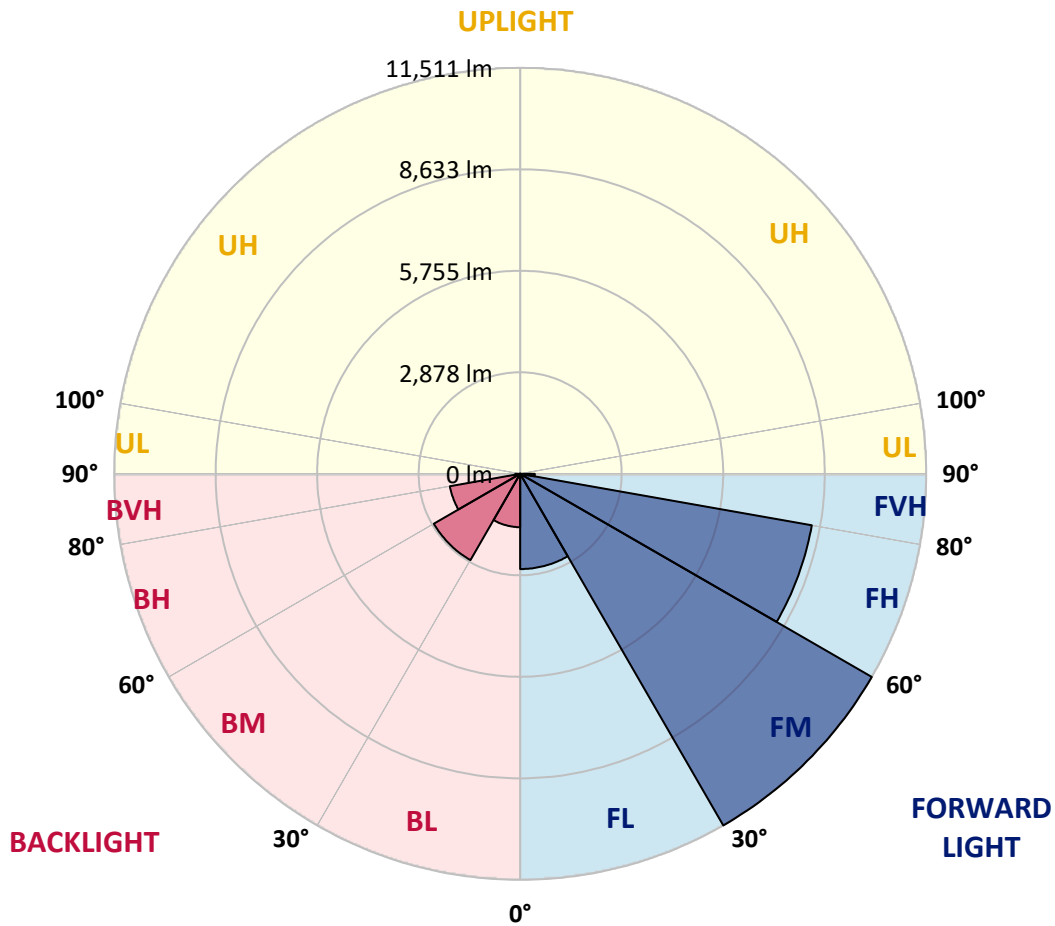
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2699.7	9.1			
FM (30°-60°)	11510.7	39.0			
FH (60°-80°)	8395.5	28.4			G4/12000
FVH (80°-90°)	412.7	1.4			G3/500
BL (0°-30°)	1512.8	5.1	B3/2500		
BM (30°-60°)	2824.4	9.6	B3/5000		
BH (60°-80°)	2022.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	135.1	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



REPORT NUMBER: P952480
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5
2.5°	5927.6	5899.5	5916.6	5910.4	5918.2	5927.6	5930.7	5935.4	5951.0	5949.4
5°	5915.1	5887.0	5910.4	5902.6	5922.9	5944.7	5963.5	5980.7	6005.6	6016.6
7.5°	5888.5	5869.8	5893.2	5916.6	5954.1	5986.9	6013.4	6052.5	6088.4	6094.6
10°	5734.0	5719.9	5774.6	5835.5	5938.5	6027.5	6085.2	6130.5	6169.6	6175.8
12.5°	5573.2	5556.0	5616.9	5699.7	5866.7	6027.5	6149.3	6208.6	6242.9	6263.2
15°	5546.7	5532.6	5567.0	5638.8	5777.7	5985.3	6193.0	6302.2	6331.9	6355.3
17.5°	5674.7	5648.1	5662.2	5687.2	5768.3	5946.3	6227.3	6408.4	6453.7	6478.7
20°	5971.3	5933.8	5912.0	5862.0	5848.0	5952.6	6224.2	6536.4	6595.7	6627.0
22.5°	6366.3	6341.3	6294.4	6168.0	6030.6	6029.0	6283.5	6700.3	6811.2	6840.8
25°	6844.0	6806.5	6747.2	6575.4	6311.6	6180.5	6383.4	6909.5	7095.3	7103.1
27.5°	7393.5	7337.3	7256.1	7029.7	6673.8	6417.8	6536.4	7149.9	7421.6	7418.4
30°	7972.6	7916.4	7830.6	7555.8	7107.8	6737.8	6748.7	7409.1	7808.7	7791.6
32.5°	8395.7	8353.6	8336.4	8124.1	7607.3	7115.6	6992.3	7696.3	8286.4	8270.8
35°	8720.4	8665.8	8686.1	8578.4	8152.2	7538.7	7290.4	8038.2	8867.2	8865.6
37.5°	9042.0	8993.6	9010.8	8939.0	8656.4	8075.7	7654.2	8456.6	9586.8	9621.2
40°	9335.5	9284.0	9352.7	9285.5	9048.3	8647.0	8067.9	8929.6	10420.5	10486.0
42.5°	9511.9	9471.3	9585.3	9586.8	9388.6	9129.4	8522.2	9451.0	11385.3	11532.0
45°	9572.8	9558.7	9730.5	9766.4	9689.9	9408.9	8931.2	10019.3	12425.0	12687.2
47.5°	9507.2	9480.7	9718.0	9850.7	9911.6	9540.0	9269.9	10634.4	13486.5	13870.6
50°	9176.3	9124.8	9477.6	9757.0	9974.0	9625.9	9611.8	11344.7	14693.3	15113.2
52.5°	8581.5	8542.5	8943.7	9429.2	9836.6	9668.0	9995.9	12120.5	15839.1	16382.4
55°	7821.2	7769.7	8211.5	8845.3	9494.7	9654.0	10379.9	12988.5	17191.1	17742.1
57.5°	6616.0	6513.0	7071.9	7821.2	8937.4	9636.8	10779.5	13851.8	18564.9	19225.2
60°	4858.2	4705.2	5390.6	6278.8	7847.8	9469.8	11274.4	14819.7	20213.4	20808.2
62.5°	2828.8	2739.8	3187.8	4016.8	5915.1	8486.3	11552.3	15945.3	21833.8	22458.3
65°	2196.5	2171.5	2210.5	2274.6	3292.4	6353.8	10695.2	17042.8	23894.5	24331.6
67.5°	2009.2	1990.4	2007.6	1887.4	1670.4	3539.1	8461.3	17320.6	26101.9	26367.3
70°	1785.9	1764.1	1820.3	1717.2	1314.5	1609.5	5467.0	16312.2	27858.2	28356.2
72.5°	1455.0	1430.0	1561.1	1514.3	1106.8	1033.5	2746.0	13915.8	27674.0	28707.5
75°	1117.8	1103.7	1259.8	1298.9	902.3	813.3	1317.6	10344.0	24353.5	25394.8
77.5°	868.0	857.1	936.7	1078.7	727.5	630.7	810.2	6561.4	18352.5	18535.2
80°	651.0	619.8	693.1	835.2	566.7	460.5	549.5	3826.3	11600.7	10515.7
82.5°	407.5	391.8	452.7	557.3	399.6	316.9	357.5	2113.8	4649.0	2738.2
85°	232.6	226.4	246.7	318.5	217.0	182.7	204.5	933.6	849.2	583.9
87.5°	93.7	90.5	112.4	142.1	79.6	67.1	71.8	224.8	187.3	173.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952480
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5924.5	0°	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5	5924.5
5947.9	2.5°	5941.6	5941.6	5919.8	5885.4	5846.4	5821.4	5780.8	5769.9	5727.8	5715.3
6000.9	5°	6013.4	6000.9	5933.8	5837.0	5704.3	5582.6	5448.3	5364.0	5245.4	5203.2
6105.5	7.5°	6104.0	6069.6	5954.1	5741.8	5463.9	5190.7	4906.6	4691.2	4485.1	4411.7
6191.4	10°	6186.7	6138.3	5941.6	5570.1	5089.3	4616.2	4163.5	3846.6	3606.2	3507.8
6286.6	12.5°	6269.5	6180.5	5858.9	5284.4	4556.9	3915.3	3432.9	3186.2	3037.9	2919.3
6364.7	15°	6347.5	6222.6	5730.9	4901.9	3973.1	3322.1	2966.1	2769.4	2650.8	2572.7
6478.7	17.5°	6438.1	6258.5	5538.9	4416.4	3417.3	2911.5	2621.1	2502.5	2479.1	2469.7
6634.8	20°	6564.5	6291.3	5286.0	3873.1	3008.3	2583.7	2433.8	2422.9	2421.3	2416.6
6822.1	22.5°	6700.3	6330.3	4951.9	3379.8	2660.2	2379.1	2352.6	2330.8	2316.7	2315.1
7048.5	25°	6861.1	6342.8	4533.5	2975.5	2363.5	2282.4	2251.1	2218.4	2209.0	2209.0
7306.0	27.5°	7017.2	6300.7	4046.4	2624.2	2196.5	2193.4	2152.8	2141.9	2140.3	2145.0
7599.5	30°	7173.4	6221.1	3562.5	2299.5	2099.7	2099.7	2085.7	2093.5	2099.7	2115.3
8002.3	32.5°	7384.1	6136.8	3158.1	2059.1	2015.4	1999.8	2013.8	2029.5	2035.7	2056.0
8531.5	35°	7693.2	6077.4	2836.6	1928.0	1928.0	1907.7	1915.5	1912.4	1898.3	1889.0
9171.6	37.5°	8102.2	6074.3	2571.2	1867.1	1854.6	1851.5	1853.1	1832.8	1778.1	1712.5
9945.9	40°	8594.0	6158.6	2366.7	1825.0	1815.6	1834.3	1825.0	1770.3	1620.4	1506.5
10898.2	42.5°	9254.3	6399.0	2235.5	1773.4	1801.5	1825.0	1787.5	1598.6	1497.1	1420.6
11983.2	45°	10031.8	6789.3	2168.4	1718.8	1775.0	1803.1	1622.0	1539.3	1458.1	1366.0
13166.5	47.5°	10912.2	7281.1	2152.8	1667.3	1715.7	1732.8	1551.8	1514.3	1422.2	1322.3
14356.1	50°	11870.8	7863.4	2194.9	1606.4	1629.8	1570.5	1528.3	1494.0	1398.8	1300.4
15575.3	52.5°	12862.1	8505.0	2279.2	1523.7	1543.9	1478.4	1519.0	1489.3	1384.7	1252.0
16835.1	55°	13836.2	9151.3	2360.4	1426.9	1456.5	1395.6	1492.4	1470.6	1320.7	1170.8
18179.3	57.5°	14826.0	9794.5	2440.0	1341.0	1372.2	1316.0	1450.3	1420.6	1248.9	1095.9
19646.7	60°	15854.7	10418.9	2477.5	1258.3	1280.1	1242.7	1386.3	1334.8	1167.7	1019.4
21089.2	62.5°	16818.0	10938.8	2416.6	1175.5	1189.6	1174.0	1302.0	1233.3	1086.5	933.6
22592.5	65°	17784.3	11247.9	2229.3	1094.3	1097.5	1089.7	1183.3	1124.0	991.3	858.6
23908.6	67.5°	18660.1	11421.2	1931.1	1006.9	999.1	996.0	1072.5	1005.4	899.2	783.7
24909.2	70°	18845.9	10980.9	1475.3	903.9	903.9	896.1	950.7	882.0	797.7	704.1
24192.7	72.5°	17212.9	9237.2	1047.5	786.8	799.3	783.7	829.0	771.2	694.7	632.3
20850.3	75°	13879.9	6773.7	761.8	666.6	688.5	661.9	704.1	663.5	597.9	596.3
14368.6	77.5°	9536.9	4188.5	552.6	549.5	565.1	530.8	579.2	557.3	498.0	471.5
6253.9	80°	4069.8	1670.4	402.8	424.6	424.6	393.4	449.6	455.8	404.3	391.8
1206.7	82.5°	810.2	474.6	282.6	291.9	274.8	265.4	318.5	352.8	487.1	541.7
363.7	85°	243.5	174.8	170.2	159.2	140.5	142.1	187.3	354.4	437.1	249.8
120.2	87.5°	67.1	43.7	45.3	35.9	29.7	39.0	64.0	268.5	146.7	62.4
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>
5924.5
5735.6
5234.4
4421.1
3529.7
2958.3
2586.8
2475.9
2432.2
2332.3
2218.4
2157.5
2126.2
2073.2
1910.8
1714.1
1503.4
1417.5
1359.7
1314.5
1289.5
1242.7
1163.0
1092.8
1014.7
932.0
849.2
774.3
700.9
613.5
537.0
441.8
391.8
543.3
215.4
53.1
0.0

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