

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: P951871

Luminaire Tested: **GALN-SB5D-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951871
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-SB5D-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31100 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

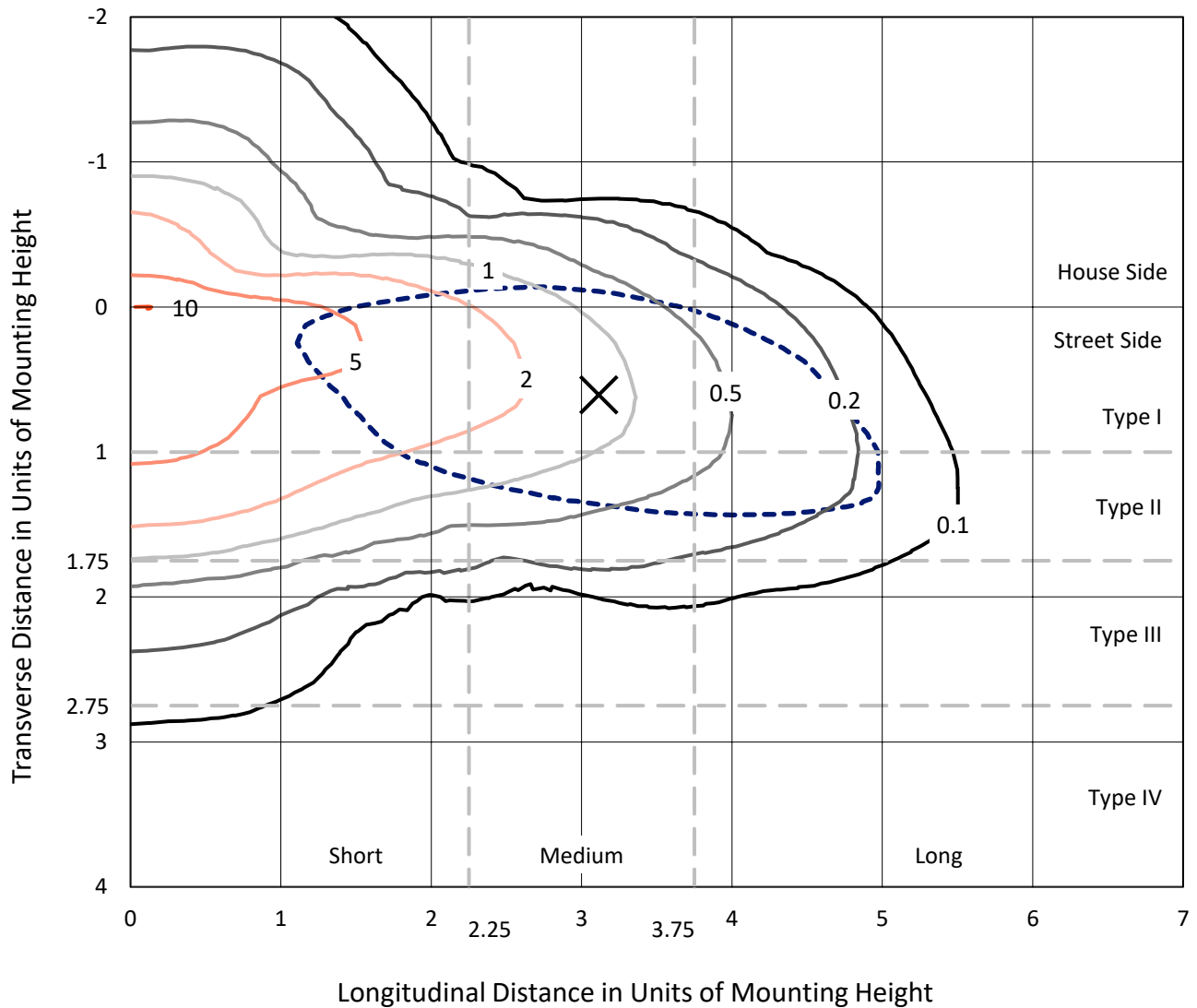
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

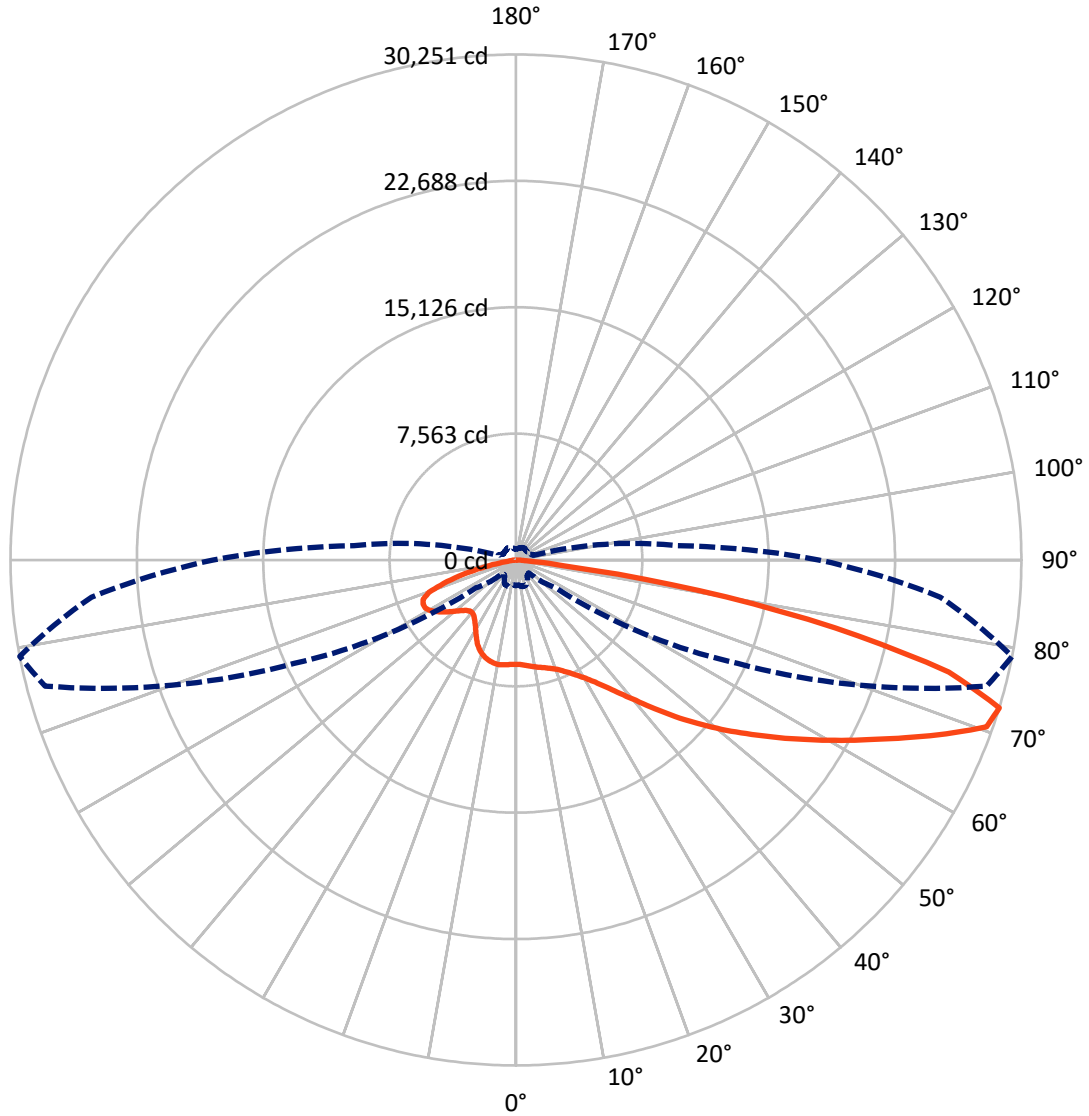
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type 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	6843.7	0.0	6843.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24256.3	0.0	24256.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	31100.0	0.0	31100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.7	1.8
10°-20°	1481.6	4.8
20°-30°	2390.7	7.7
30°-40°	3588.1	11.5
40°-50°	5089.9	16.4
50°-60°	6427.9	20.7
60°-70°	6528.4	21.0
70°-80°	4449.4	14.3
80°-90°	577.3	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°	31100.0	100.0
0°-180°	31100.0	100.0

Coefficient of Utilization



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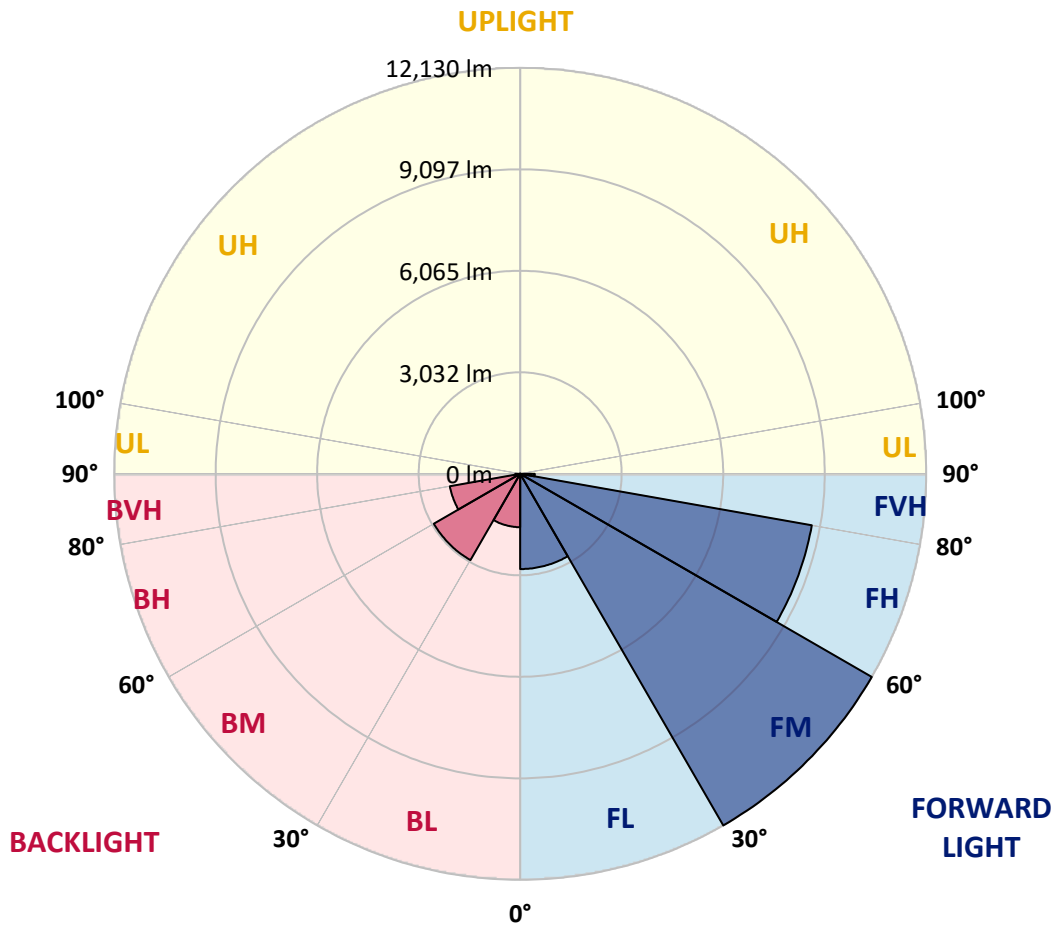
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2844.9	9.1			
FM (30°-60°)	12129.6	39.0			
FH (60°-80°)	8846.9	28.4			G4/12000
FVH (80°-90°)	434.9	1.4			G3/500
BL (0°-30°)	1594.1	5.1	B3/2500		
BM (30°-60°)	2976.3	9.6	B3/5000		
BH (60°-80°)	2130.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	142.4	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°	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0
2.5°	6246.3	6216.7	6234.8	6228.2	6236.4	6246.3	6249.6	6254.5	6271.0	6269.4
5°	6233.2	6203.5	6228.2	6220.0	6241.4	6264.4	6284.2	6302.3	6328.6	6340.1
7.5°	6205.2	6185.5	6210.1	6234.8	6274.3	6308.8	6336.8	6377.9	6415.8	6422.3
10°	6042.3	6027.5	6085.1	6149.3	6257.8	6351.6	6412.5	6460.2	6501.3	6507.9
12.5°	5872.9	5854.8	5919.0	6006.1	6182.2	6351.6	6479.9	6542.4	6578.6	6600.0
15°	5844.9	5830.1	5866.3	5942.0	6088.4	6307.2	6526.0	6641.1	6672.4	6697.1
17.5°	5979.8	5951.9	5966.7	5993.0	6078.5	6266.1	6562.2	6753.0	6800.7	6827.0
20°	6292.4	6252.9	6229.9	6177.2	6162.4	6272.6	6558.9	6887.9	6950.4	6983.3
22.5°	6708.6	6682.3	6632.9	6499.7	6354.9	6353.2	6621.4	7060.6	7177.4	7208.7
25°	7212.0	7172.5	7110.0	6929.0	6651.0	6512.8	6726.7	7281.1	7476.8	7485.1
27.5°	7791.0	7731.8	7646.3	7407.7	7032.7	6762.9	6887.9	7534.4	7820.6	7817.4
30°	8401.4	8342.1	8251.7	7962.1	7490.0	7100.1	7111.6	7807.5	8228.6	8210.5
32.5°	8847.2	8802.8	8784.7	8560.9	8016.4	7498.2	7368.3	8110.2	8732.0	8715.6
35°	9189.3	9131.8	9153.2	9039.6	8590.5	7944.0	7682.5	8470.5	9344.0	9342.3
37.5°	9528.2	9477.2	9495.3	9419.7	9121.9	8509.9	8065.8	8911.3	10102.4	10138.5
40°	9837.5	9783.2	9855.6	9784.9	9534.8	9112.0	8501.7	9409.8	10980.8	11049.9
42.5°	10023.4	9980.6	10100.7	10102.4	9893.4	9620.4	8980.4	9959.2	11997.5	12152.1
45°	10087.6	10072.7	10253.7	10291.5	10210.9	9914.8	9411.4	10558.0	13093.1	13369.5
47.5°	10018.5	9990.5	10240.5	10380.4	10444.5	10053.0	9768.4	11206.2	14211.7	14616.4
50°	9669.7	9615.4	9987.2	10281.7	10510.3	10143.5	10128.7	11954.7	15483.4	15925.9
52.5°	9042.9	9001.8	9424.6	9936.2	10365.6	10187.9	10533.4	12772.3	16690.8	17263.3
55°	8241.8	8187.5	8653.1	9320.9	10005.3	10173.1	10938.1	13687.0	18115.5	18696.2
57.5°	6971.8	6863.2	7452.2	8241.8	9418.0	10155.0	11359.2	14596.7	19563.1	20259.0
60°	5119.4	4958.2	5680.4	6616.5	8269.8	9979.0	11880.7	15616.6	21300.3	21927.1
62.5°	2980.9	2887.1	3359.2	4232.8	6233.2	8942.6	12173.5	16802.7	23007.9	23665.9
65°	2314.6	2288.3	2329.4	2396.9	3469.4	6695.4	11270.4	17959.2	25179.4	25640.0
67.5°	2117.2	2097.5	2115.6	1988.9	1760.2	3729.4	8916.3	18252.0	27505.5	27785.2
70°	1882.0	1858.9	1918.1	1809.6	1385.1	1696.1	5761.0	17189.3	29356.2	29881.0
72.5°	1533.2	1506.9	1645.1	1595.7	1166.4	1089.0	2893.7	14664.1	29162.1	30251.1
75°	1177.9	1163.1	1327.6	1368.7	950.8	857.1	1388.4	10900.2	25663.0	26760.3
77.5°	914.7	903.1	987.0	1136.7	766.6	664.6	853.8	6914.2	19339.4	19531.9
80°	686.0	653.1	730.4	880.1	597.2	485.3	579.1	4032.1	12224.5	11081.2
82.5°	429.4	412.9	477.1	587.3	421.1	333.9	376.7	2227.4	4899.0	2885.4
85°	245.1	238.5	259.9	335.6	228.7	192.5	215.5	983.8	894.9	615.3
87.5°	98.7	95.4	118.4	149.7	83.9	70.7	75.7	236.9	197.4	182.6
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°
6243.0	0°	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0	6243.0
6267.7	2.5°	6261.1	6261.1	6238.1	6201.9	6160.8	6134.5	6091.7	6080.2	6035.8	6022.6
6323.6	5°	6336.8	6323.6	6252.9	6150.9	6011.1	5882.8	5741.3	5652.5	5527.4	5483.0
6433.9	7.5°	6432.2	6396.0	6274.3	6050.6	5757.7	5469.8	5170.4	4943.4	4726.3	4649.0
6524.3	10°	6519.4	6468.4	6261.1	5869.6	5362.9	4864.5	4387.4	4053.4	3800.1	3696.5
6624.7	12.5°	6606.6	6512.8	6173.9	5568.6	4802.0	4125.8	3617.5	3357.6	3201.3	3076.3
6706.9	15°	6688.8	6557.2	6039.0	5165.5	4186.7	3500.7	3125.6	2918.3	2793.3	2711.1
6827.0	17.5°	6784.3	6595.1	5836.7	4653.9	3601.1	3068.0	2762.1	2637.0	2612.4	2602.5
6991.5	20°	6917.5	6629.6	5570.2	4081.4	3170.0	2722.6	2564.7	2553.1	2551.5	2546.6
7188.9	22.5°	7060.6	6670.7	5218.2	3561.6	2803.2	2507.1	2479.1	2456.1	2441.3	2439.6
7427.5	25°	7230.1	6683.9	4777.3	3135.5	2490.6	2405.1	2372.2	2337.6	2327.8	2327.8
7698.9	27.5°	7394.6	6639.5	4264.0	2765.4	2314.6	2311.3	2268.5	2257.0	2255.4	2260.3
8008.2	30°	7559.1	6555.6	3754.0	2423.2	2212.6	2212.6	2197.8	2206.0	2212.6	2229.1
8432.6	32.5°	7781.2	6466.8	3328.0	2169.8	2123.8	2107.3	2122.1	2138.6	2145.2	2166.6
8990.3	35°	8106.9	6404.2	2989.1	2031.7	2031.7	2010.3	2018.5	2015.2	2000.4	1990.5
9664.8	37.5°	8537.9	6401.0	2709.4	1967.5	1954.3	1951.0	1952.7	1931.3	1873.7	1804.6
10480.7	40°	9056.1	6489.8	2493.9	1923.1	1913.2	1933.0	1923.1	1865.5	1707.6	1587.5
11484.2	42.5°	9752.0	6743.1	2355.7	1868.8	1898.4	1923.1	1883.6	1684.5	1577.6	1497.0
12627.5	45°	10571.2	7154.4	2285.0	1811.2	1870.4	1900.1	1709.2	1622.0	1536.5	1439.4
13874.5	47.5°	11499.0	7672.6	2268.5	1756.9	1807.9	1826.0	1635.2	1595.7	1498.7	1393.4
15128.0	50°	12509.1	8286.2	2313.0	1692.8	1717.4	1654.9	1610.5	1574.3	1474.0	1370.3
16412.8	52.5°	13553.7	8962.3	2401.8	1605.6	1627.0	1557.9	1600.7	1569.4	1459.2	1319.3
17740.4	55°	14580.2	9643.4	2487.3	1503.6	1534.8	1470.7	1572.7	1549.7	1391.7	1233.8
19156.8	57.5°	15623.2	10321.2	2571.2	1413.1	1446.0	1386.8	1528.3	1497.0	1316.1	1154.8
20703.2	60°	16707.3	10979.2	2610.7	1325.9	1349.0	1309.5	1460.8	1406.5	1230.5	1074.2
22223.2	62.5°	17722.3	11527.0	2546.6	1238.7	1253.5	1237.1	1372.0	1299.6	1145.0	983.8
23807.4	65°	18740.6	11852.7	2349.2	1153.2	1156.5	1148.3	1247.0	1184.4	1044.6	904.8
25194.2	67.5°	19663.5	12035.3	2034.9	1061.1	1052.8	1049.6	1130.2	1059.4	947.6	825.8
26248.7	70°	19859.2	11571.4	1554.6	952.5	952.5	944.3	1001.8	929.5	840.6	741.9
25493.6	72.5°	18138.5	9733.9	1103.8	829.1	842.3	825.8	873.5	812.7	732.1	666.3
21971.5	75°	14626.3	7137.9	802.8	702.4	725.5	697.5	741.9	699.2	630.1	628.4
15141.2	77.5°	10049.7	4413.7	582.4	579.1	595.5	559.3	610.3	587.3	524.8	496.8
6590.1	80°	4288.7	1760.2	424.4	447.5	447.5	414.6	473.8	480.4	426.1	412.9
1271.6	82.5°	853.8	500.1	297.8	307.6	289.5	279.7	335.6	371.8	513.3	570.8
383.3	85°	256.6	184.2	179.3	167.8	148.1	149.7	197.4	373.4	460.6	263.2
126.7	87.5°	70.7	46.1	47.7	37.8	31.3	41.1	67.4	283.0	154.6	65.8
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>
6243.0
6044.0
5515.9
4658.8
3719.5
3117.4
2725.9
2609.1
2563.0
2457.7
2337.6
2273.5
2240.6
2184.6
2013.6
1806.3
1584.2
1493.7
1432.9
1385.1
1358.8
1309.5
1225.6
1151.5
1069.3
982.1
894.9
816.0
738.6
646.5
565.9
465.6
412.9
572.5
227.0
55.9
0.0

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