

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: P950361

Luminaire Tested: **GALN-SB4D-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950361  
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-SB4D-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

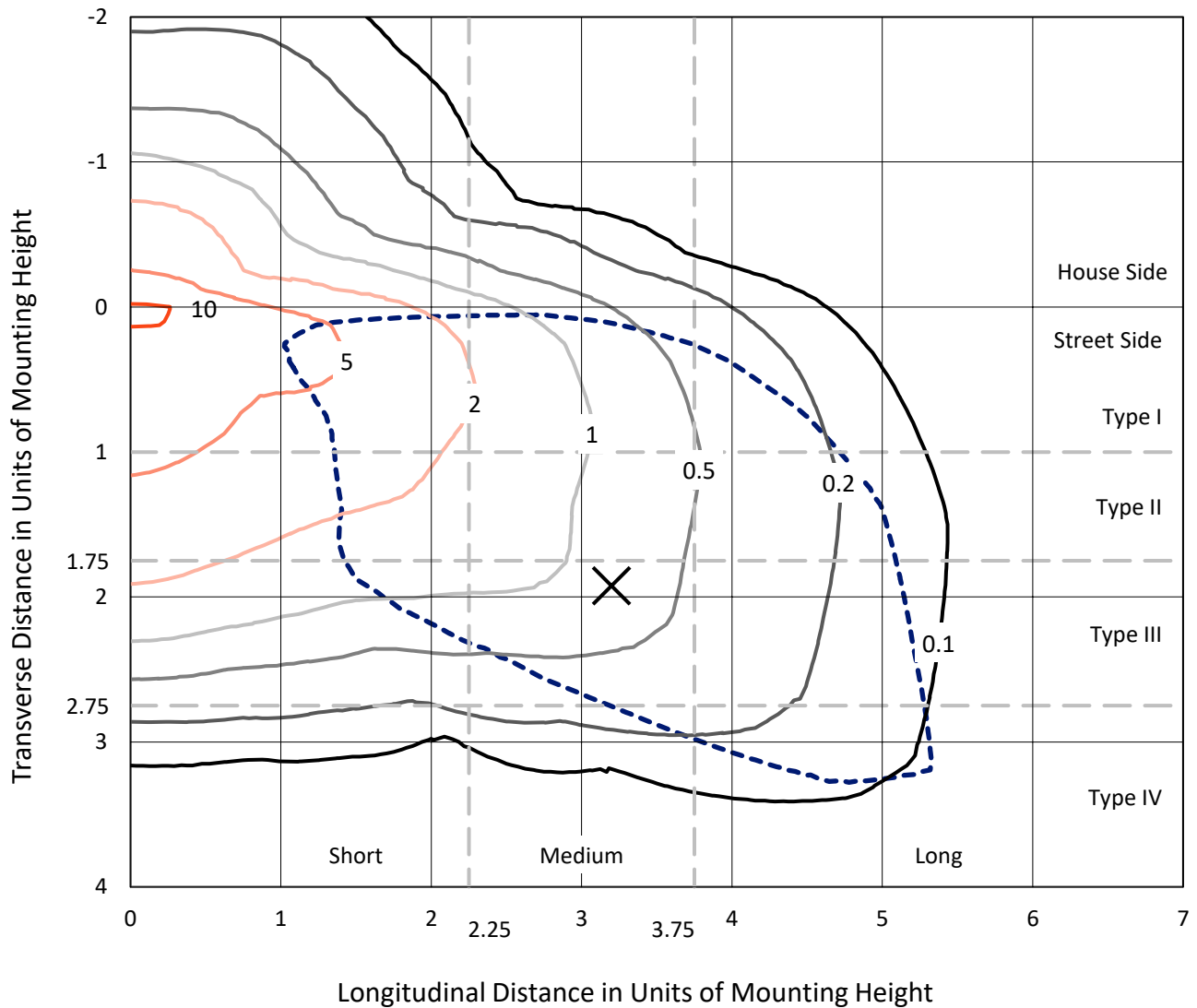
Lumens per Lamp: N/A  
Luminaire Lumens: 35815 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

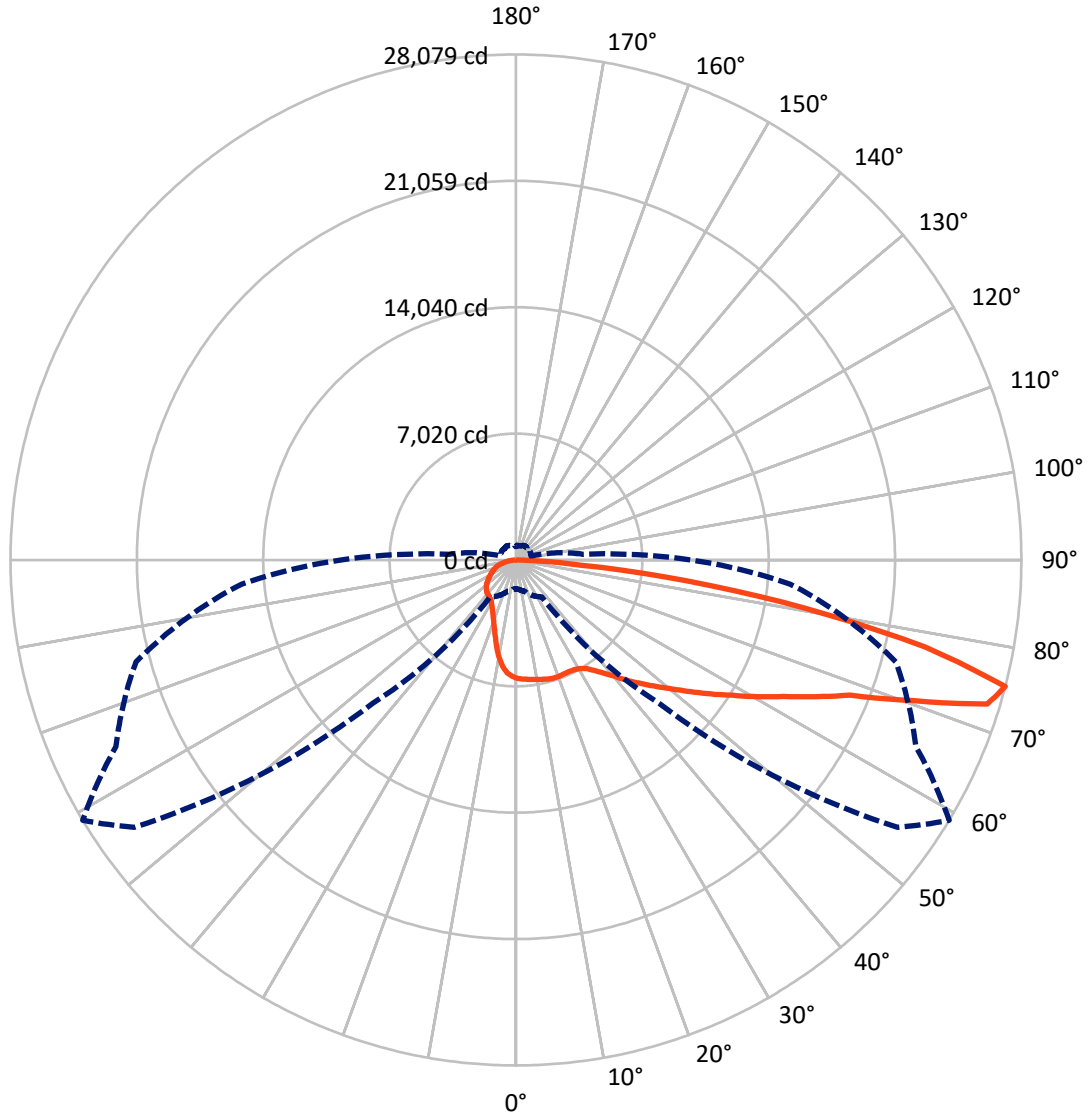
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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
<b>House Side</b>	Lumens	6717.4	0.0	6717.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	29097.7	0.0	29097.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	35815.0	0.0	35815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.4	1.6
10°-20°	1506.7	4.2
20°-30°	2288.5	6.4
30°-40°	3401.8	9.5
40°-50°	5059.1	14.1
50°-60°	6867.0	19.2
60°-70°	8383.5	23.4
70°-80°	6579.3	18.4
80°-90°	1139.7	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°	35815.0	100.0
0°-180°	35815.0	100.0

**Coefficient of Utilization**



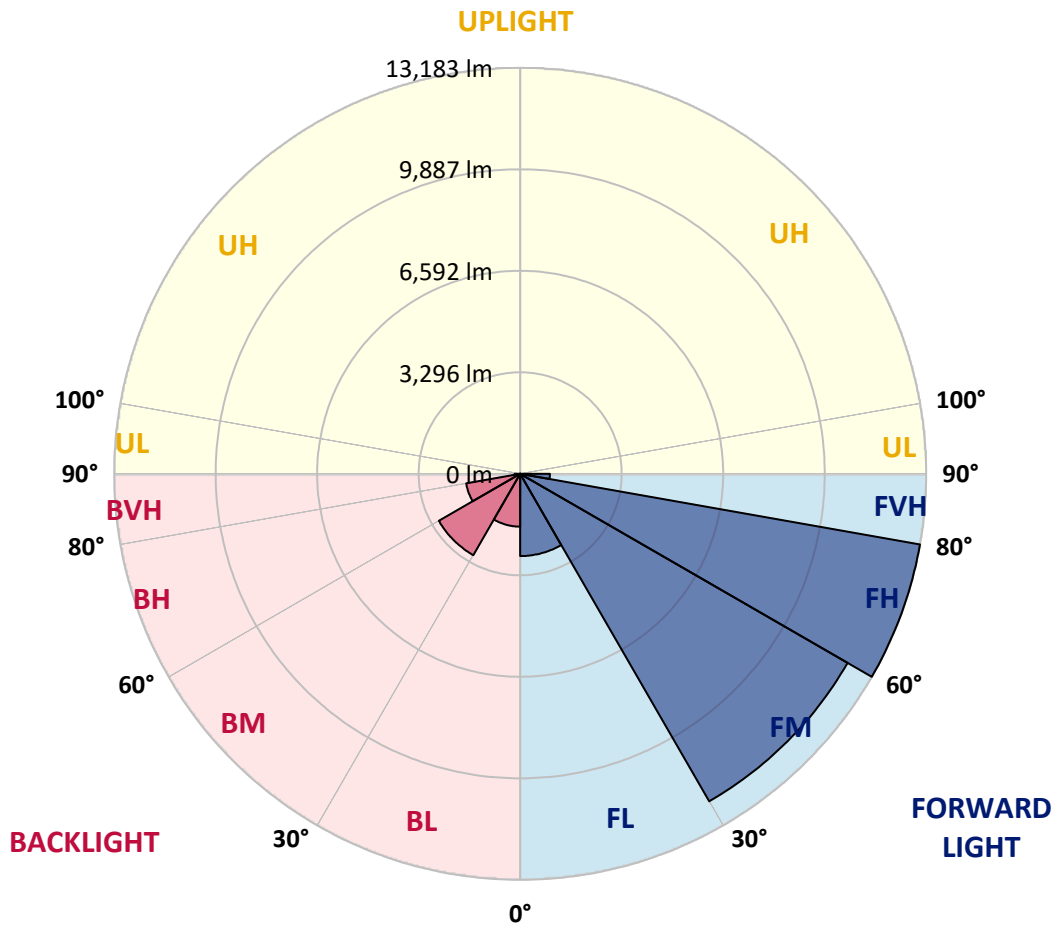
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.4	7.5			
FM (30°-60°)	12278.9	34.3			
FH (60°-80°)	13183.2	36.8			G5
FVH (80°-90°)	965.2	2.7			G5
BL (0°-30°)	1714.2	4.8	B3/2500		
BM (30°-60°)	3049.0	8.5	B3/5000		
BH (60°-80°)	1779.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	174.5	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8
2.5°	6629.6	6606.5	6629.6	6620.0	6616.1	6608.4	6610.4	6623.9	6616.1	6625.8
5°	6585.3	6571.8	6595.0	6589.2	6614.2	6618.1	6643.1	6658.5	6668.2	6670.1
7.5°	6512.1	6498.6	6531.4	6558.4	6612.3	6627.7	6679.7	6704.8	6718.3	6741.4
10°	6244.3	6238.5	6319.4	6421.6	6548.7	6627.7	6706.7	6749.1	6770.3	6831.9
12.5°	5770.3	5778.1	5884.0	6080.5	6334.9	6589.2	6737.5	6799.2	6831.9	6909.0
15°	5317.6	5315.7	5431.3	5641.3	5997.7	6419.6	6752.9	6858.9	6914.8	7028.5
17.5°	5055.6	5047.8	5128.8	5288.7	5620.1	6159.5	6714.4	6891.7	7011.1	7153.7
20°	5007.4	4992.0	5034.4	5113.4	5348.4	5874.4	6614.2	6891.7	7088.2	7273.1
22.5°	5182.7	5157.7	5140.3	5130.7	5234.7	5639.3	6500.6	6868.5	7201.9	7444.6
25°	5535.3	5496.8	5408.1	5321.4	5290.6	5533.4	6400.4	6862.8	7371.4	7675.8
27.5°	6105.6	6057.4	5878.2	5670.2	5483.3	5587.3	6356.1	6897.4	7558.3	7920.5
30°	6812.7	6760.6	6535.2	6215.4	5880.2	5787.7	6411.9	6999.6	7797.2	8246.1
32.5°	7446.5	7388.7	7196.1	6870.5	6417.7	6134.5	6589.2	7194.1	8172.9	8698.9
35°	8009.1	7941.7	7768.3	7467.7	7076.6	6621.9	6909.0	7539.0	8706.6	9434.9
37.5°	8560.1	8481.2	8292.3	7974.4	7700.9	7271.2	7350.2	7982.2	9415.6	10328.8
40°	9176.7	9063.0	8833.7	8519.7	8253.8	8032.2	7930.1	8525.5	10136.2	11326.8
42.5°	9773.9	9666.1	9392.5	9124.7	8791.3	8727.8	8602.5	9161.3	10924.2	12423.1
45°	10417.4	10288.4	9957.0	9617.9	9407.9	9190.2	9253.7	9797.1	11696.8	13540.6
47.5°	11020.5	10876.0	10484.9	10107.3	9991.7	9579.4	9851.0	10496.4	12500.2	14673.4
50°	11346.1	11203.5	10877.9	10536.9	10446.3	10059.1	10498.4	11265.2	13342.1	15802.5
52.5°	11617.8	11463.6	11037.8	10849.0	10822.0	10581.2	11296.0	12143.7	14184.1	16800.5
55°	11906.8	11735.3	11192.0	11022.4	11145.7	11166.9	12242.0	13139.8	15074.2	17773.4
57.5°	12240.1	12022.4	11340.3	11168.8	11461.7	11852.8	13328.6	14172.5	15948.9	18675.1
60°	12554.1	12334.5	11625.5	11402.0	11802.7	12648.5	14575.2	15422.9	16939.2	19478.5
62.5°	12615.8	12434.7	11852.8	11850.9	12265.1	13577.2	16051.0	16684.9	17804.3	20272.3
65°	11548.4	11434.7	11089.9	11833.5	12927.9	14914.3	17694.4	18299.4	18904.4	20965.9
67.5°	8789.4	8804.8	8779.8	10215.2	12392.3	16835.2	20073.9	20027.6	20262.7	21744.3
70°	4019.0	4109.6	4699.1	7051.6	9928.1	17056.7	24008.1	23408.9	21967.8	22751.9
72.5°	2171.3	2240.7	2481.5	3416.0	5968.8	15164.7	26948.2	27374.0	24235.5	23430.1
75°	1593.3	1631.9	1799.5	2171.3	2506.6	11271.0	25894.3	28079.1	24518.7	21848.3
77.5°	1192.6	1209.9	1346.7	1720.5	1283.2	5941.8	20690.4	23254.8	20989.0	17950.7
80°	865.1	884.3	986.4	1290.9	899.8	2173.3	14207.2	16322.7	14374.8	11442.4
82.5°	597.3	605.0	649.3	878.6	628.1	843.9	8061.1	9571.6	8024.5	4015.2
85°	360.3	369.9	389.2	512.5	356.4	400.7	3479.5	3599.0	2398.7	959.5
87.5°	148.4	158.0	173.4	215.8	140.6	111.7	574.1	720.6	448.9	281.3
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°
6573.8	0°	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8	6573.8
6593.0	2.5°	6583.4	6569.9	6533.3	6483.2	6437.0	6379.2	6354.1	6332.9	6313.7	6277.1
6645.0	5°	6623.9	6587.3	6489.0	6361.8	6217.3	6059.3	5905.2	5799.2	5708.7	5641.3
6704.8	7.5°	6685.5	6616.1	6437.0	6176.9	5845.5	5506.4	5200.1	4982.3	4818.6	4758.8
6789.5	10°	6749.1	6666.2	6354.1	5895.6	5323.4	4801.2	4394.7	4171.2	4040.2	3997.8
6889.7	12.5°	6824.2	6702.8	6225.0	5504.5	4739.6	4167.4	3812.9	3681.8	3614.4	3591.3
7013.0	15°	6934.0	6733.7	6030.4	5015.1	4182.8	3705.0	3475.7	3385.1	3350.5	3348.5
7140.2	17.5°	7016.9	6739.5	5728.0	4491.0	3755.1	3425.6	3236.8	3202.1	3225.2	3259.9
7265.4	20°	7109.4	6687.4	5331.1	4013.2	3454.5	3180.9	3101.9	3125.0	3180.9	3231.0
7431.1	22.5°	7174.9	6593.0	4851.3	3641.4	3194.4	3040.3	3036.4	3084.6	3115.4	3140.5
7625.7	25°	7232.7	6433.1	4342.7	3329.3	2980.5	2955.5	2997.9	2982.5	2961.3	2982.5
7820.3	27.5°	7275.1	6180.7	3888.0	3055.7	2830.3	2897.7	2872.6	2838.0	2836.0	2847.6
8049.6	30°	7261.6	5843.6	3514.2	2795.6	2724.3	2789.8	2730.1	2724.3	2718.5	2724.3
8394.5	32.5°	7261.6	5460.2	3227.2	2616.4	2656.9	2631.8	2626.0	2612.6	2589.4	2587.5
8862.6	35°	7302.0	5076.7	2980.5	2520.1	2601.0	2541.3	2545.1	2512.4	2464.2	2441.1
9483.0	37.5°	7384.9	4768.5	2735.9	2473.8	2502.7	2500.8	2485.4	2429.5	2344.7	2271.5
10257.5	40°	7585.3	4677.9	2568.2	2452.6	2456.5	2479.6	2439.2	2331.3	2138.6	2019.1
11043.6	42.5°	7899.3	4830.1	2531.6	2400.6	2425.7	2448.8	2369.8	2119.3	1982.5	1911.2
11868.2	45°	8298.1	5096.0	2610.6	2325.5	2352.5	2392.9	2157.9	2038.4	1976.8	1978.7
12685.1	47.5°	8802.9	5375.4	2757.1	2260.0	2246.5	2269.6	2017.2	1944.0	1859.2	1880.4
13469.3	50°	9386.7	5658.6	2895.8	2171.3	2129.0	2053.8	1926.7	1857.3	1749.4	1699.3
14226.5	52.5°	10018.6	5932.2	2951.6	2063.5	2001.8	1915.1	1865.0	1780.2	1649.2	1566.4
14941.2	55°	10617.8	6180.7	2890.0	1934.4	1874.6	1807.2	1799.5	1747.5	1606.8	1491.2
15577.0	57.5°	11184.3	6388.8	2735.9	1803.4	1745.6	1705.1	1757.1	1732.1	1554.8	1406.5
16178.2	60°	11664.0	6531.4	2512.4	1670.4	1630.0	1608.8	1687.8	1680.0	1481.6	1315.9
16717.6	62.5°	12045.5	6587.3	2265.8	1543.3	1533.6	1495.1	1591.4	1591.4	1389.1	1227.3
17191.6	65°	12344.1	6533.3	2015.3	1418.0	1437.3	1379.5	1473.9	1462.3	1290.9	1148.3
17736.8	67.5°	12608.1	6356.1	1737.8	1294.7	1339.0	1265.8	1350.6	1323.6	1183.0	1069.3
18208.9	70°	12725.6	5943.7	1421.9	1171.4	1225.4	1154.1	1227.3	1177.2	1061.6	984.5
17690.6	72.5°	11781.5	4940.0	1119.4	1042.3	1088.6	1030.8	1094.3	1036.5	930.6	895.9
15276.5	75°	9747.0	3706.9	861.2	901.7	936.4	892.0	934.4	892.0	795.7	820.8
11284.4	77.5°	7078.5	2502.7	658.9	753.3	768.7	745.6	782.2	734.1	647.4	641.6
5623.9	80°	3520.0	1466.2	516.3	595.3	589.6	574.1	616.5	593.4	520.2	551.0
1518.2	82.5°	1019.2	628.1	375.7	418.1	406.5	410.4	441.2	452.8	678.2	672.4
472.0	85°	319.8	246.6	225.4	233.1	221.6	227.3	260.1	516.3	477.8	279.4
146.4	87.5°	82.8	84.8	55.9	59.7	61.7	73.2	82.8	314.0	150.3	98.3
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>
6573.8
6259.7
5585.4
4654.8
3932.3
3597.1
3356.2
3273.4
3248.3
3153.9
2996.0
2866.9
2745.5
2612.6
2464.2
2296.6
2034.6
1911.2
1988.3
1934.4
1712.8
1564.4
1491.2
1398.8
1310.1
1221.5
1140.6
1061.6
969.1
867.0
749.5
612.7
545.2
687.8
302.5
104.0
0.0

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