

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: P942535

Luminaire Tested: **GALN-SB6C-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6C-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40433 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

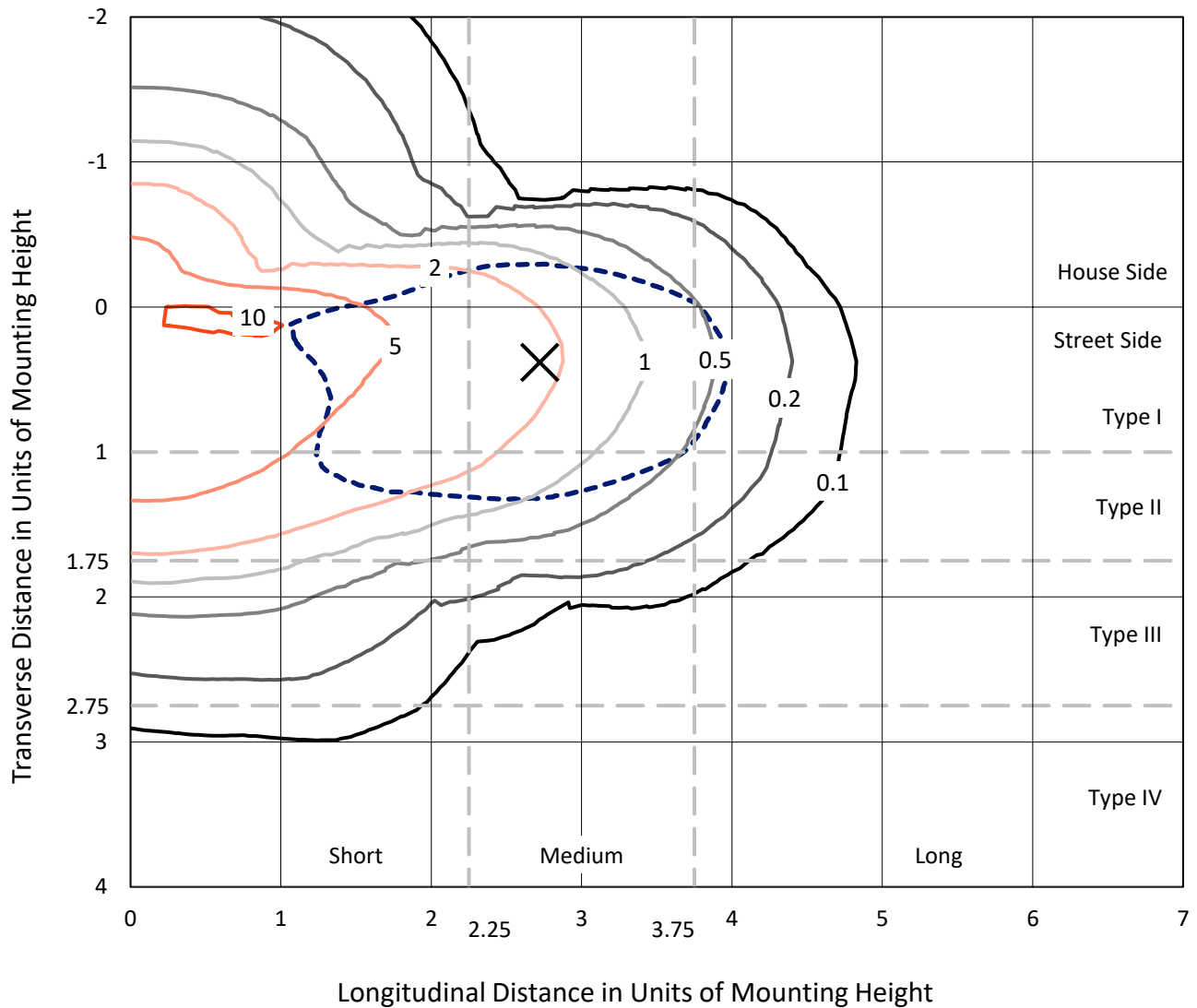
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

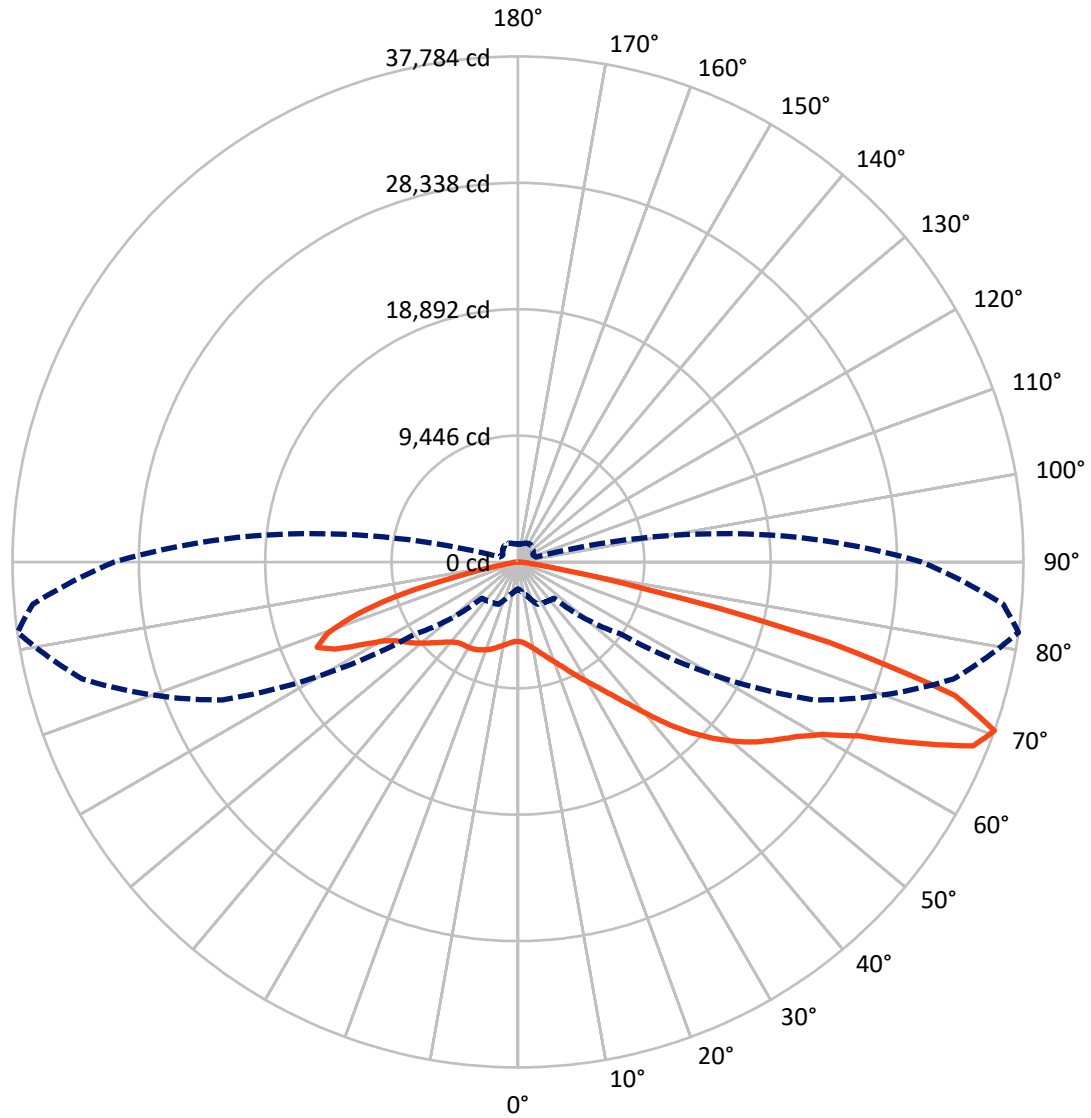
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9967.7	0.0	9967.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30465.3	0.0	30465.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40433.0	0.0	40433.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.7	1.4
10°-20°	1608.1	4.0
20°-30°	2690.1	6.7
30°-40°	4202.7	10.4
40°-50°	6693.3	16.6
50°-60°	9314.5	23.0
60°-70°	9743.4	24.1
70°-80°	5092.4	12.6
80°-90°	528.8	1.3
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°	40433.0	100.0
0°-180°	40433.0	100.0

**Coefficient of Utilization**



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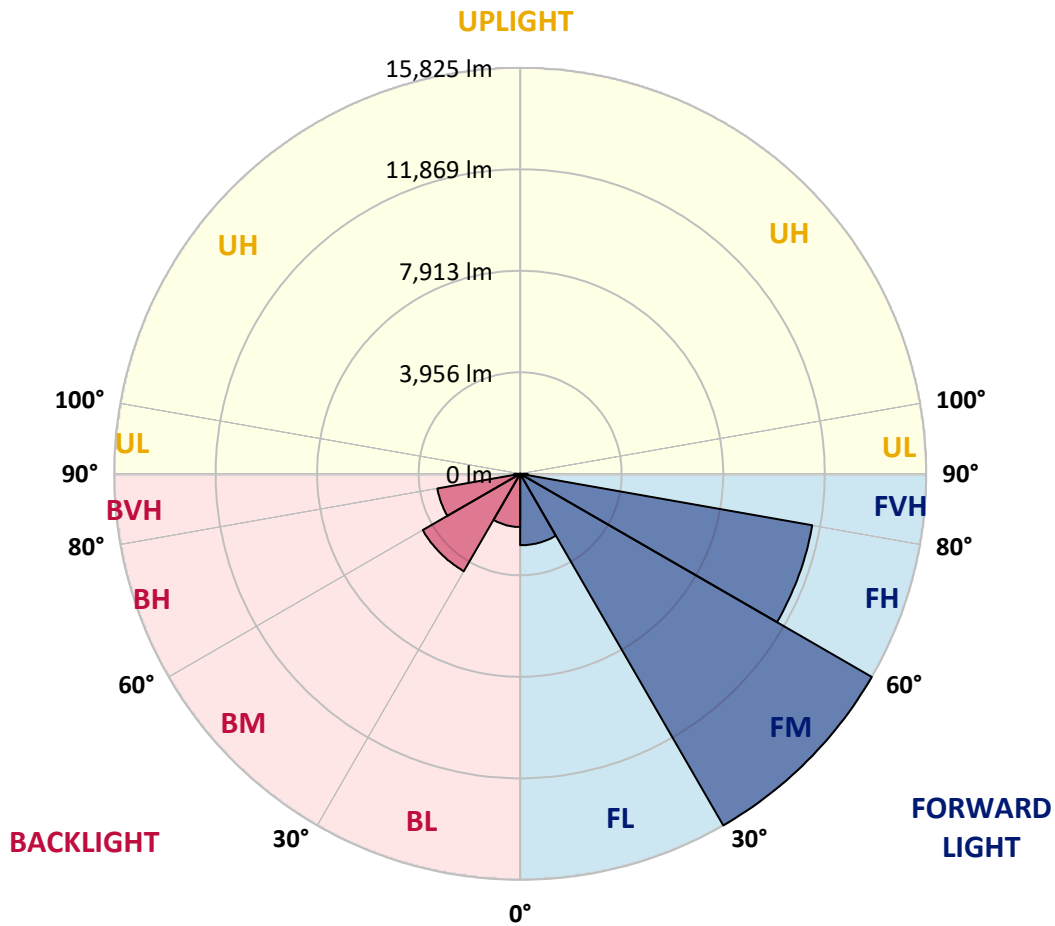
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.3	6.9			
FM (30°-60°)	15825.1	39.1			
FH (60°-80°)	11559.9	28.6			G4/12000
FVH (80°-90°)	296.0	0.7			G3/500
BL (0°-30°)	2073.7	5.1	B3/2500		
BM (30°-60°)	4385.4	10.8	B3/5000		
BH (60°-80°)	3275.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	232.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0
2.5°	6069.6	6103.9	6093.2	6082.5	6082.5	6067.4	6065.3	6043.8	6026.7	5998.8
5°	6146.8	6183.3	6179.0	6187.6	6215.5	6221.9	6228.4	6215.5	6181.2	6146.8
7.5°	6078.2	6118.9	6131.8	6183.3	6269.1	6346.4	6404.3	6427.9	6395.7	6346.4
10°	5846.5	5891.5	5936.6	6058.9	6211.2	6393.6	6548.0	6640.3	6633.8	6586.6
12.5°	5376.6	5423.8	5520.3	5758.5	6037.4	6359.2	6646.7	6839.8	6906.3	6872.0
15°	5001.1	5041.9	5114.8	5359.4	5722.0	6211.2	6683.2	7058.7	7228.1	7208.8
17.5°	4990.4	5007.6	5052.6	5168.5	5447.4	5979.5	6644.6	7273.2	7597.2	7595.0
20°	5179.2	5185.6	5211.4	5235.0	5393.8	5803.5	6545.9	7451.3	8011.3	8011.3
22.5°	5441.0	5436.7	5462.4	5441.0	5518.2	5788.5	6483.7	7607.9	8472.5	8506.9
25°	5833.6	5812.1	5805.7	5756.3	5771.4	5928.0	6552.3	7786.0	9019.6	9090.4
27.5°	6357.1	6322.8	6299.2	6185.4	6146.8	6215.5	6762.6	8000.5	9629.0	9751.2
30°	7039.3	6977.1	6942.8	6745.4	6606.0	6616.7	7080.1	8285.9	10266.2	10463.5
32.5°	7970.5	7873.9	7781.7	7457.7	7202.4	7118.7	7489.9	8680.6	10957.0	11272.4
35°	9013.2	8936.0	8837.3	8337.4	7944.7	7751.6	8043.4	9232.0	11765.9	12265.8
37.5°	10017.3	9950.8	9998.0	9324.3	8818.0	8536.9	8768.6	9972.2	12763.5	13501.6
40°	11055.7	11004.2	11010.6	10367.0	9777.0	9461.6	9648.3	10901.2	13907.1	14971.2
42.5°	12184.2	12145.6	12016.9	11446.2	10783.2	10489.3	10660.9	11974.0	15134.3	16644.7
45°	13447.9	13424.3	13304.2	12649.8	11890.3	11559.9	11791.6	13158.3	16367.9	18219.5
47.5°	14540.0	14559.3	14544.3	13992.9	13205.5	12720.6	12997.4	14394.1	17515.8	19699.9
50°	15065.6	15166.5	15314.5	15142.9	14653.7	14160.2	14213.9	15587.0	18610.0	21088.0
52.5°	14791.0	14981.9	15385.3	15659.9	15848.7	15745.7	15602.0	16771.3	19639.8	22341.0
55°	13767.6	14035.8	14705.2	15368.1	16331.5	17080.2	17269.0	18084.3	20643.9	23443.7
57.5°	11903.2	12338.7	12939.4	14280.4	15902.4	17726.0	19212.8	19905.8	21708.0	24621.6
60°	8706.4	9290.0	10036.6	12031.9	14400.5	17380.6	20867.0	22703.6	23220.6	26147.1
62.5°	5571.8	5932.3	6618.8	8498.3	11220.9	15610.6	21373.4	26200.7	25784.5	28648.7
65°	3814.7	4046.4	4675.0	5730.6	7253.9	11620.0	20017.4	28822.5	29856.6	32613.6
67.5°	2772.0	2947.9	3484.3	4409.0	4726.5	6876.3	15533.3	28702.3	33815.0	36698.6
70°	2021.0	2145.5	2596.0	3484.3	3636.6	3825.4	9410.1	24398.5	33729.2	37784.2
72.5°	1497.6	1583.4	1885.9	2703.3	2943.6	2583.2	4657.9	17732.5	28983.4	34175.5
75°	1083.5	1147.8	1371.0	2068.3	2355.7	1967.4	2323.6	10362.7	20216.9	24040.2
77.5°	828.2	877.5	1023.4	1514.7	1885.9	1476.1	1441.8	4767.3	9586.0	9633.2
80°	665.1	697.3	776.7	1066.3	1446.1	1104.9	939.7	1924.5	3029.4	2563.9
82.5°	489.2	542.8	656.5	748.8	1034.1	761.6	572.8	971.9	1152.1	991.2
85°	278.9	315.4	396.9	536.4	660.8	465.6	328.3	431.2	536.4	439.8
87.5°	98.7	128.7	139.5	210.3	287.5	193.1	126.6	124.4	175.9	130.9
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°
5928.0	0°	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0
5992.3	2.5°	5970.9	5960.2	5917.3	5859.3	5799.3	5741.3	5722.0	5681.3	5653.4	5638.3
6131.8	5°	6091.0	6056.7	5955.9	5827.1	5692.0	5546.1	5443.1	5348.7	5280.0	5215.7
6322.8	7.5°	6262.7	6202.6	6028.8	5803.5	5563.3	5320.8	5140.6	5003.3	4911.0	4850.9
6545.9	10°	6462.2	6370.0	6103.9	5767.1	5395.9	5048.3	4835.9	4717.9	4660.0	4627.8
6801.2	12.5°	6691.8	6560.9	6181.2	5683.4	5140.6	4743.7	4597.8	4563.5	4565.6	4567.7
7123.0	15°	6975.0	6792.6	6243.4	5501.0	4808.0	4509.8	4484.1	4539.9	4597.8	4625.7
7487.8	17.5°	7294.7	7037.2	6254.1	5200.7	4481.9	4359.6	4441.2	4561.3	4649.3	4687.9
7895.4	20°	7637.9	7286.1	6176.9	4775.9	4213.7	4237.3	4383.2	4537.7	4634.3	4683.6
8361.0	22.5°	8030.6	7552.1	5992.3	4329.6	3994.9	4104.3	4276.0	4426.1	4527.0	4576.3
8908.1	25°	8479.0	7850.3	5702.7	3954.1	3806.1	3954.1	4125.8	4250.2	4331.7	4376.8
9519.5	27.5°	8976.7	8161.4	5316.5	3655.9	3640.9	3799.7	3941.3	4037.8	4080.7	4115.0
10169.6	30°	9476.6	8444.6	4848.8	3430.6	3497.1	3647.3	3748.2	3791.1	3804.0	3810.4
10894.8	32.5°	10017.3	8689.2	4357.5	3244.0	3359.8	3499.3	3559.4	3578.7	3518.6	3477.8
11774.4	35°	10671.7	8951.0	3876.9	3095.9	3224.7	3344.8	3364.1	3347.0	3276.2	3192.5
12877.2	37.5°	11480.5	9277.1	3492.9	2990.8	3098.1	3177.5	3153.9	3149.6	3156.0	3057.3
14203.1	40°	12471.7	9701.9	3211.8	2909.3	2995.1	3012.3	2945.8	2982.2	3014.4	2864.2
15657.8	42.5°	13572.4	10214.7	3033.7	2853.5	2909.3	2868.5	2765.5	2806.3	2802.0	2604.6
17118.8	45°	14694.4	10772.5	2971.5	2812.7	2829.9	2748.4	2634.7	2645.4	2555.3	2377.2
18519.9	47.5°	15810.1	11371.1	3010.1	2778.4	2731.2	2639.0	2551.0	2503.8	2370.8	2237.7
19862.9	50°	16904.3	11999.7	3151.7	2709.8	2596.0	2542.4	2478.0	2394.4	2252.8	2139.1
21133.1	52.5°	17919.1	12632.6	3310.5	2596.0	2426.5	2458.7	2418.0	2321.4	2182.0	2066.1
22334.5	55°	18880.3	13265.6	3372.7	2439.4	2267.8	2385.8	2362.2	2184.1	2016.8	1922.4
23591.8	57.5°	19927.3	14027.2	3304.1	2239.9	2139.1	2302.1	2212.0	2014.6	1918.1	1847.3
25228.8	60°	21377.6	15222.2	3156.0	1993.2	2016.8	2177.7	2023.2	1941.7	1836.5	1757.2
27683.2	62.5°	23787.0	17451.4	2917.9	1748.6	1873.0	1993.2	1933.1	1851.6	1744.3	1667.0
31879.8	65°	27348.5	20549.5	2469.5	1557.6	1712.1	1812.9	1836.5	1755.0	1643.4	1561.9
35557.2	67.5°	30352.2	22493.3	1868.7	1398.9	1546.9	1667.0	1733.6	1654.2	1536.2	1456.8
36417.5	70°	30187.0	21081.6	1426.7	1242.2	1401.0	1523.3	1609.1	1546.9	1420.3	1345.2
33079.1	72.5°	26812.2	17635.9	1154.3	1083.5	1253.0	1373.1	1476.1	1428.9	1300.2	1227.2
24233.3	75°	19697.7	12518.9	922.6	922.6	1068.5	1216.5	1330.2	1300.2	1182.2	1130.7
10173.9	77.5°	8303.0	5252.2	723.0	765.9	888.2	1044.9	1186.5	1197.2	1094.2	1158.6
2690.4	80°	2207.7	1448.2	551.4	602.9	697.3	862.5	1032.0	1027.7	916.1	856.0
999.8	82.5°	841.0	570.7	392.6	424.8	504.2	660.8	817.4	843.2	731.6	632.9
392.6	85°	324.0	244.6	242.4	255.3	293.9	437.7	617.9	639.4	551.4	467.7
109.4	87.5°	83.7	72.9	90.1	85.8	135.2	233.9	354.0	366.9	336.8	195.2
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>
5928.0
5655.5
5241.4
4863.8
4636.4
4572.0
4623.5
4696.5
4696.5
4589.2
4389.7
4127.9
3825.4
3490.7
3196.8
3063.8
2868.5
2602.5
2383.6
2237.7
2130.5
2068.3
1913.8
1840.8
1752.9
1667.0
1566.2
1458.9
1351.7
1227.2
1115.7
1051.3
796.0
632.9
482.7
278.9
0.0

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