

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: P943242

Luminaire Tested: **GALN-SB7C-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

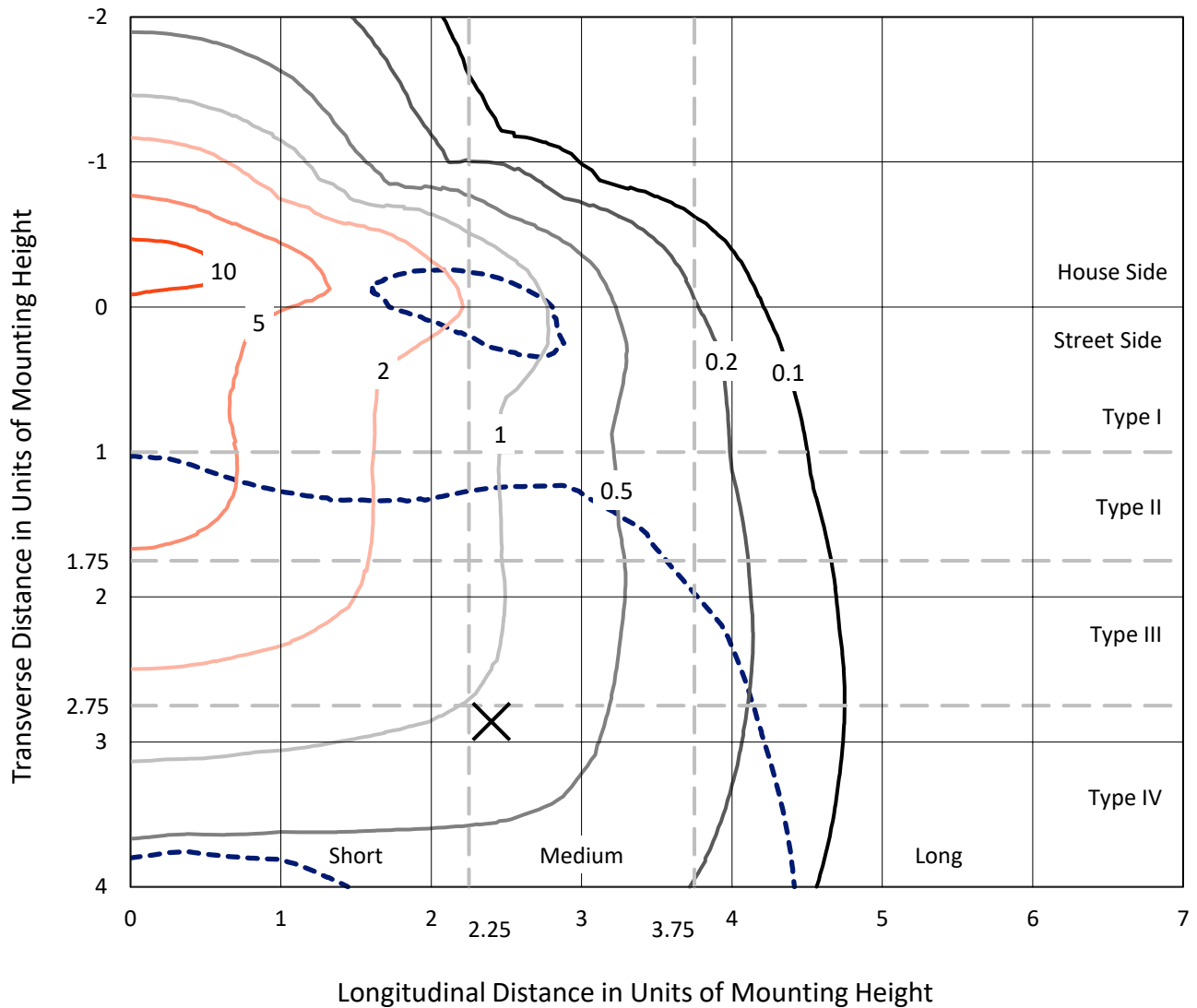
Lumens per Lamp: N/A  
Luminaire Lumens: 50499 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

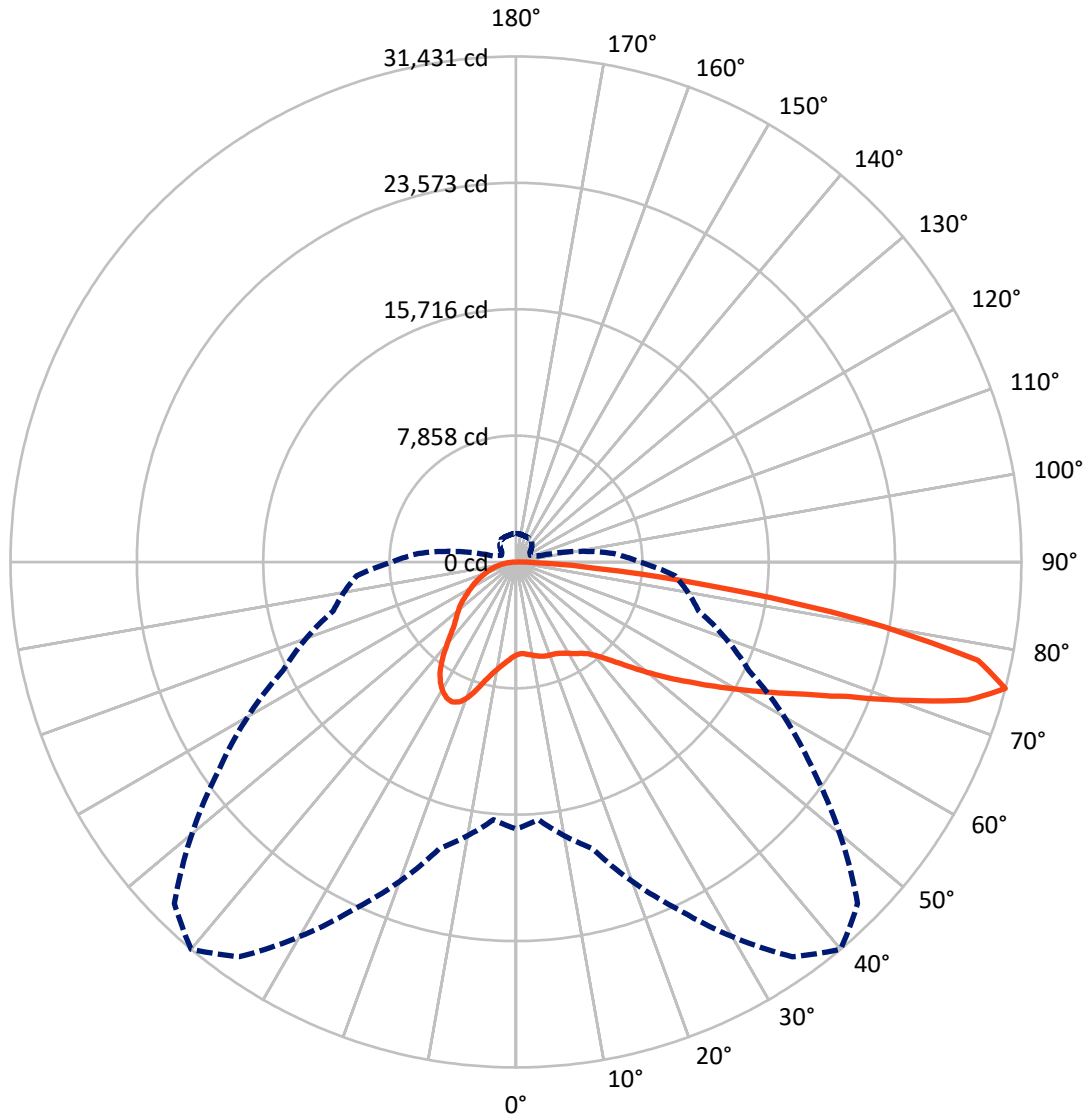
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15646.3	0.0	15646.3
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	34852.7	0.0	34852.7
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	50499.0	0.0	50499.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.4	1.1
10°-20°	1935.3	3.8
20°-30°	3533.7	7.0
30°-40°	5011.8	9.9
40°-50°	6767.4	13.4
50°-60°	9103.9	18.0
60°-70°	11555.0	22.9
70°-80°	10486.9	20.8
80°-90°	1528.6	3.0
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°	50499.0	100.0
0°-180°	50499.0	100.0

**Coefficient of Utilization**



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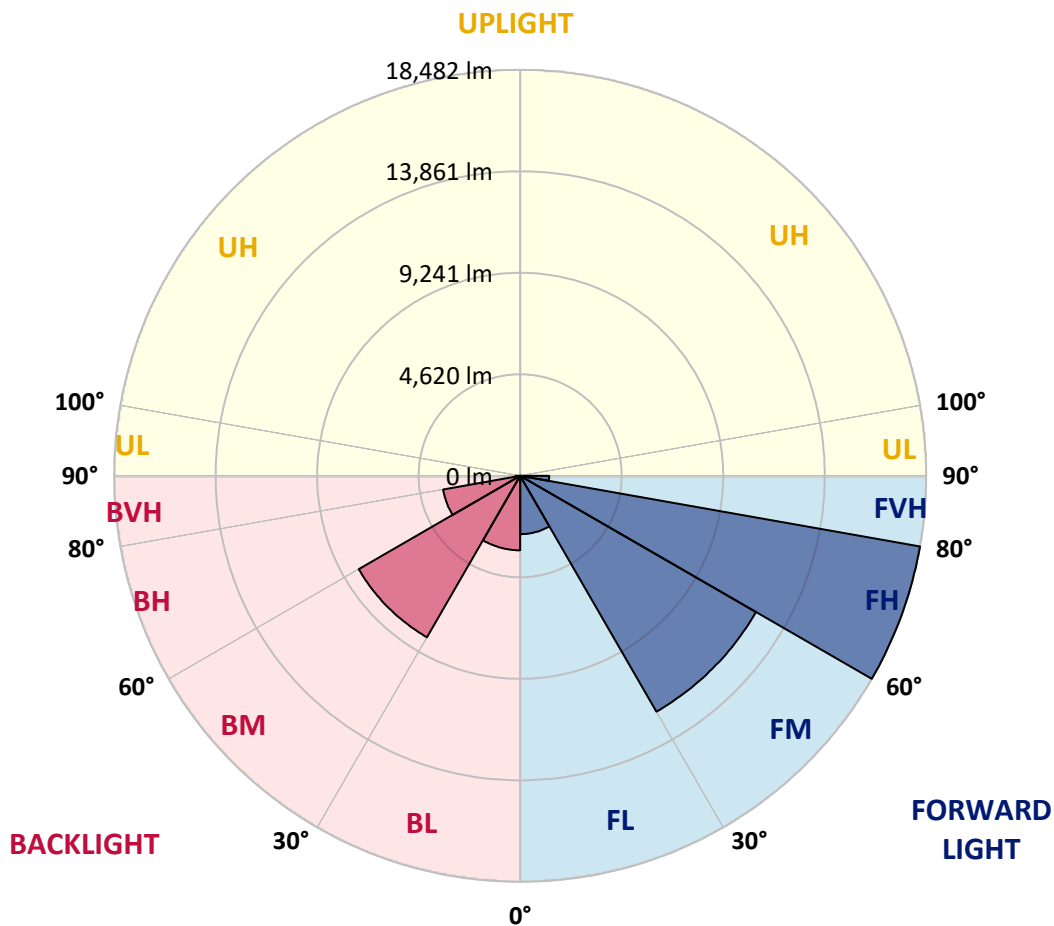
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.3	5.3			
FM (30°-60°)	12396.4	24.5			
FH (60°-80°)	18481.9	36.6			G5
FVH (80°-90°)	1318.2	2.6			G5
BL (0°-30°)	3389.1	6.7	B4/5000		
BM (30°-60°)	8486.7	16.8	B4/8500		
BH (60°-80°)	3560.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	210.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6
2.5°	5686.2	5718.4	5710.3	5699.6	5699.6	5702.3	5699.6	5718.4	5737.1	5755.9
5°	5745.2	5777.3	5761.2	5747.8	5737.1	5734.5	5726.4	5723.7	5734.5	5758.6
7.5°	5860.3	5892.5	5868.4	5844.3	5822.8	5812.1	5801.4	5785.3	5777.3	5790.7
10°	5988.9	6021.0	5991.6	5948.7	5913.9	5900.5	5889.8	5873.7	5863.0	5871.1
12.5°	6117.5	6149.6	6109.4	6050.5	6005.0	5996.9	5983.5	5978.2	5975.5	5972.8
15°	6238.0	6264.8	6213.9	6144.2	6096.0	6082.6	6069.3	6077.3	6090.7	6106.7
17.5°	6331.7	6358.5	6283.5	6192.5	6146.9	6141.6	6133.5	6160.3	6197.8	6238.0
20°	6417.4	6444.2	6347.8	6224.6	6171.0	6171.0	6173.7	6230.0	6283.5	6342.4
22.5°	6538.0	6559.4	6441.5	6272.8	6195.1	6200.5	6221.9	6278.2	6345.1	6425.5
25°	6717.4	6733.5	6588.9	6363.9	6275.5	6291.6	6310.3	6337.1	6401.4	6495.1
27.5°	7006.7	7020.1	6829.9	6524.6	6390.7	6417.4	6444.2	6425.5	6454.9	6535.3
30°	7413.8	7421.8	7180.8	6776.3	6586.2	6599.6	6604.9	6527.3	6471.0	6535.3
32.5°	7895.9	7893.2	7606.7	7081.7	6808.5	6795.1	6749.6	6596.9	6465.7	6521.9
35°	8643.2	8613.7	8244.1	7510.2	7060.3	6977.2	6870.1	6674.6	6492.4	6508.5
37.5°	9880.6	9789.5	9278.0	8212.0	7435.2	7223.6	7065.6	6800.5	6551.4	6503.2
40°	11276.1	11160.9	10598.4	9173.5	7997.7	7657.5	7403.1	6979.9	6647.8	6527.3
42.5°	12931.3	12767.9	12162.6	10306.5	8710.2	8217.3	7834.3	7207.6	6789.7	6604.9
45°	14964.2	14747.3	13890.2	11584.1	9607.4	8951.2	8439.6	7553.1	7006.7	6754.9
47.5°	17018.5	17072.1	15853.4	13046.5	10684.1	9856.5	9197.6	8072.7	7322.7	6996.0
50°	19201.4	19238.9	17806.0	14666.9	11905.5	10879.7	10049.4	8653.9	7762.0	7338.8
52.5°	20904.9	20910.3	19579.1	16362.3	13177.7	12004.6	10968.0	9318.1	8270.9	7794.1
55°	21970.9	21957.5	20821.9	17966.7	14640.1	13185.8	11985.8	10073.5	8892.3	8329.8
57.5°	22745.0	22704.8	21679.0	19346.1	16199.0	14581.2	13137.5	10930.5	9626.2	8967.3
60°	23039.6	23015.5	22260.2	20538.0	17838.1	16124.0	14466.0	11889.4	10459.1	9719.9
62.5°	23152.1	23197.6	22830.7	21692.4	19592.5	17832.8	15925.8	13035.8	11396.6	10571.6
65°	23548.5	23631.5	23556.5	23203.0	21574.5	19833.5	17862.2	14399.1	12419.7	11485.0
67.5°	24333.3	24416.3	24448.4	25010.9	23995.8	22327.1	20278.2	16097.2	13617.0	12433.1
70°	24314.5	24290.4	24858.2	26449.2	27027.7	25779.6	23535.1	18186.3	15044.6	13220.6
72.5°	22131.6	21938.8	23280.6	26433.1	29550.8	29384.7	27512.5	20880.8	16276.6	13317.0
75°	16603.4	16089.1	18459.5	23821.7	29971.3	31431.0	30040.9	22552.1	15984.7	11766.2
77.5°	7100.4	6583.5	9377.1	17634.6	26824.2	29382.0	27721.4	19675.5	12759.9	7780.7
80°	1858.8	1856.1	2833.7	7995.0	18242.6	21697.7	19035.4	12706.3	7290.6	2780.2
82.5°	768.7	750.0	1041.9	3109.6	8913.7	12176.0	9936.9	5667.5	2632.9	752.6
85°	286.6	283.9	506.2	1074.0	3144.4	5022.0	3634.6	1449.0	656.2	366.9
87.5°	80.4	77.7	109.8	372.3	766.0	1162.4	621.4	238.4	184.8	144.6
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°
5774.6	0°	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6	5774.6
5785.3	2.5°	5793.4	5806.8	5830.9	5849.6	5873.7	5900.5	5938.0	5962.1	5986.2	6002.3
5798.7	5°	5817.5	5846.9	5908.5	5970.2	6042.5	6109.4	6187.1	6243.3	6288.9	6302.3
5846.9	7.5°	5871.1	5919.3	6023.7	6128.2	6243.3	6353.2	6465.7	6562.1	6639.8	6669.2
5932.7	10°	5964.8	6029.1	6176.4	6323.7	6476.4	6645.1	6789.7	6929.0	7038.8	7084.4
6034.4	12.5°	6082.6	6163.0	6355.8	6559.4	6771.0	7004.0	7191.5	7362.9	7499.5	7561.1
6176.4	15°	6235.3	6339.8	6586.2	6859.4	7170.1	7494.2	7732.5	7922.7	8075.4	8150.4
6323.7	17.5°	6401.4	6540.7	6851.3	7263.8	7708.4	8134.3	8412.9	8552.1	8710.2	8782.5
6460.3	20°	6562.1	6733.5	7178.1	7778.1	8370.0	8822.6	9047.6	9085.1	9095.8	9103.9
6588.9	22.5°	6728.1	6958.5	7587.9	8426.2	9061.0	9374.4	9406.5	9245.8	9020.8	8916.4
6714.7	25°	6910.3	7215.6	8123.6	9141.4	9655.6	9693.1	9446.7	9055.7	8629.8	8434.3
6816.5	27.5°	7087.0	7512.9	8766.4	9824.4	10084.2	9754.7	9224.4	8670.0	8155.7	7949.5
6888.8	30°	7263.8	7853.1	9476.2	10421.6	10279.7	9602.1	8873.5	8254.8	7737.9	7520.9
6953.1	32.5°	7443.3	8249.5	10293.1	10852.9	10244.9	9278.0	8437.0	7788.8	7333.5	7105.8
7009.4	35°	7646.8	8736.9	11067.1	11088.6	10011.9	8801.2	7861.1	7231.7	6835.3	6653.1
7076.3	37.5°	7912.0	9355.6	11750.1	11147.5	9604.7	8102.2	7146.0	6572.8	6246.0	6163.0
7175.4	40°	8241.4	10100.2	12272.4	11053.8	9002.1	7253.1	6363.9	5905.9	5721.1	5739.8
7309.4	42.5°	8670.0	10933.2	12639.4	10812.7	8163.8	6377.3	5678.2	5474.6	5563.0	5638.0
7510.2	45°	9227.1	11798.3	12867.0	10402.9	7215.6	5635.4	5273.8	5322.0	5388.9	5397.0
7834.3	47.5°	9939.5	12674.2	13017.0	9784.2	6248.7	5113.1	5016.6	5027.4	5014.0	4957.7
8319.1	50°	10828.8	13525.9	13150.9	8964.6	5426.4	4786.3	4657.7	4620.2	4435.4	4253.3
8964.6	52.5°	11841.2	14308.0	13207.2	7946.8	4786.3	4513.1	4304.2	4068.5	3723.0	3666.7
9776.2	55°	12966.1	15031.2	13062.6	6696.0	4247.9	4162.2	3846.2	3562.3	3524.8	3476.6
10844.8	57.5°	14310.7	15810.6	12767.9	5300.6	3696.2	3752.4	3444.4	3476.6	3409.6	3334.6
12218.9	60°	15781.1	16616.8	12251.0	4028.3	3125.7	3240.9	3340.0	3337.3	3318.5	3256.9
13667.9	62.5°	17104.3	17147.1	11233.2	3085.5	2624.8	2844.5	3115.0	3112.3	3096.2	3061.4
15181.2	65°	17891.7	17066.8	9535.1	2429.3	2212.4	2517.7	2809.6	2831.1	2833.7	2831.1
16319.5	67.5°	17752.4	16126.6	7204.9	1933.8	1872.2	2185.6	2507.0	2536.4	2557.9	2563.2
16464.1	70°	16177.5	14061.6	4697.9	1542.8	1569.5	1893.6	2220.4	2249.9	2268.6	2290.0
14286.6	72.5°	12609.9	10338.6	2689.1	1248.1	1304.4	1641.9	1936.5	1971.3	1982.0	2022.2
9942.2	75°	7684.3	6080.0	1451.7	983.0	1071.4	1403.5	1655.3	1695.4	1714.2	1762.4
4882.7	77.5°	3653.3	2632.9	827.6	766.0	862.4	1146.4	1398.1	1443.7	1392.8	1419.6
1347.2	80°	1234.7	977.6	522.3	583.9	658.9	894.6	1119.6	1165.1	1058.0	1052.6
447.3	82.5°	431.2	396.4	332.1	388.4	425.9	640.1	846.4	905.3	787.4	784.8
200.9	85°	168.7	160.7	184.8	211.6	254.4	393.7	557.1	586.6	484.8	391.0
58.9	87.5°	34.8	37.5	45.5	48.2	77.7	136.6	200.9	246.4	195.5	166.1
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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180°  
5774.6  
5991.6  
6307.6  
6671.9  
7087.0  
7561.1  
8145.0  
8779.8  
9125.3  
8945.9  
8463.7  
7973.6  
7545.0  
7135.3  
6693.3  
6221.9  
5804.1  
5707.7  
5450.5  
5000.6  
4277.4  
3685.5  
3484.6  
3321.2  
3235.5  
3048.0  
2831.1  
2568.6  
2300.7  
2038.3  
*1767.7*  
1398.1  
1041.9  
747.3  
385.7  
152.7  
0.0

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