

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: P940954

Luminaire Tested: **GALN-SB4B-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

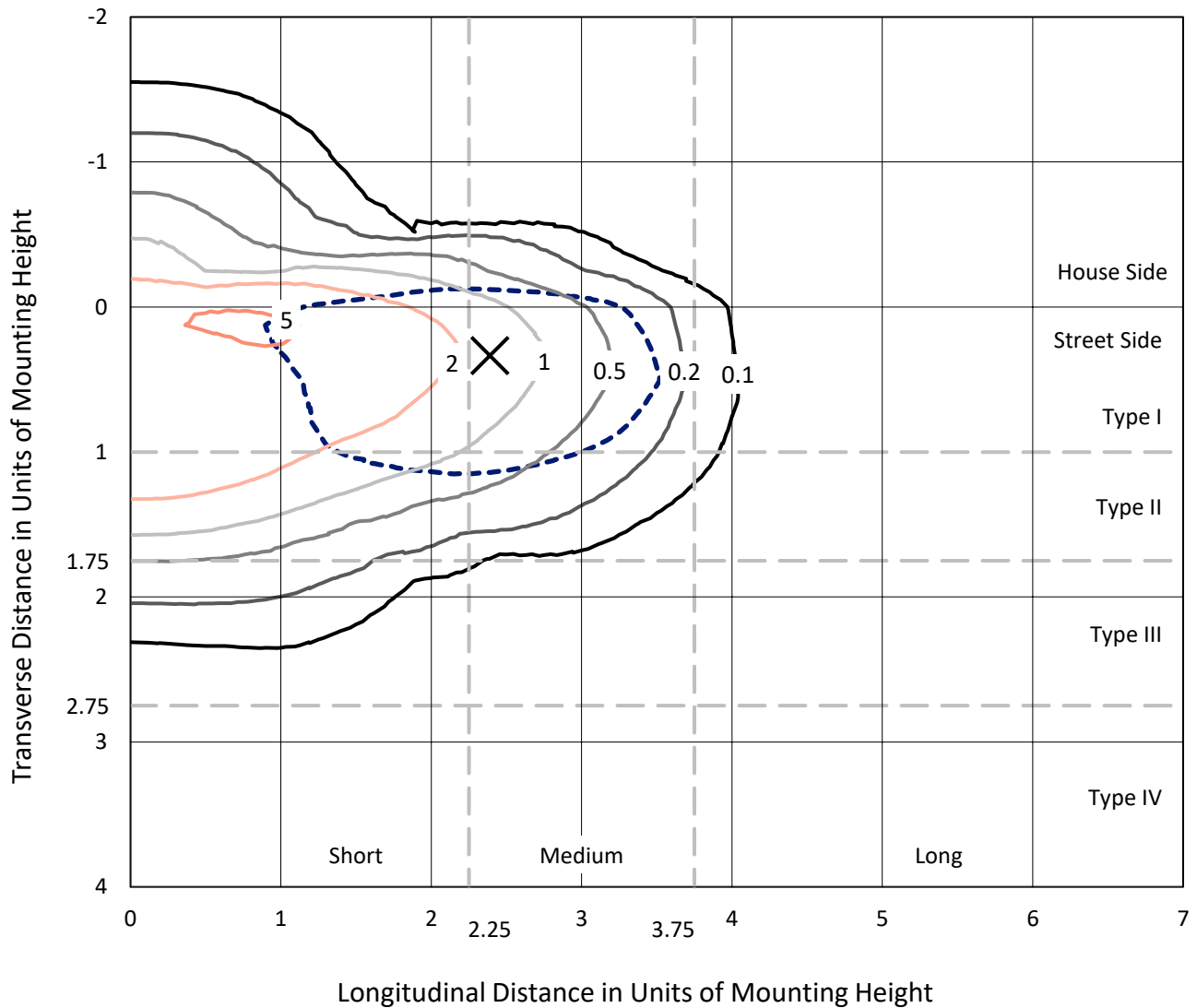
Lumens per Lamp: N/A  
Luminaire Lumens: 16480 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

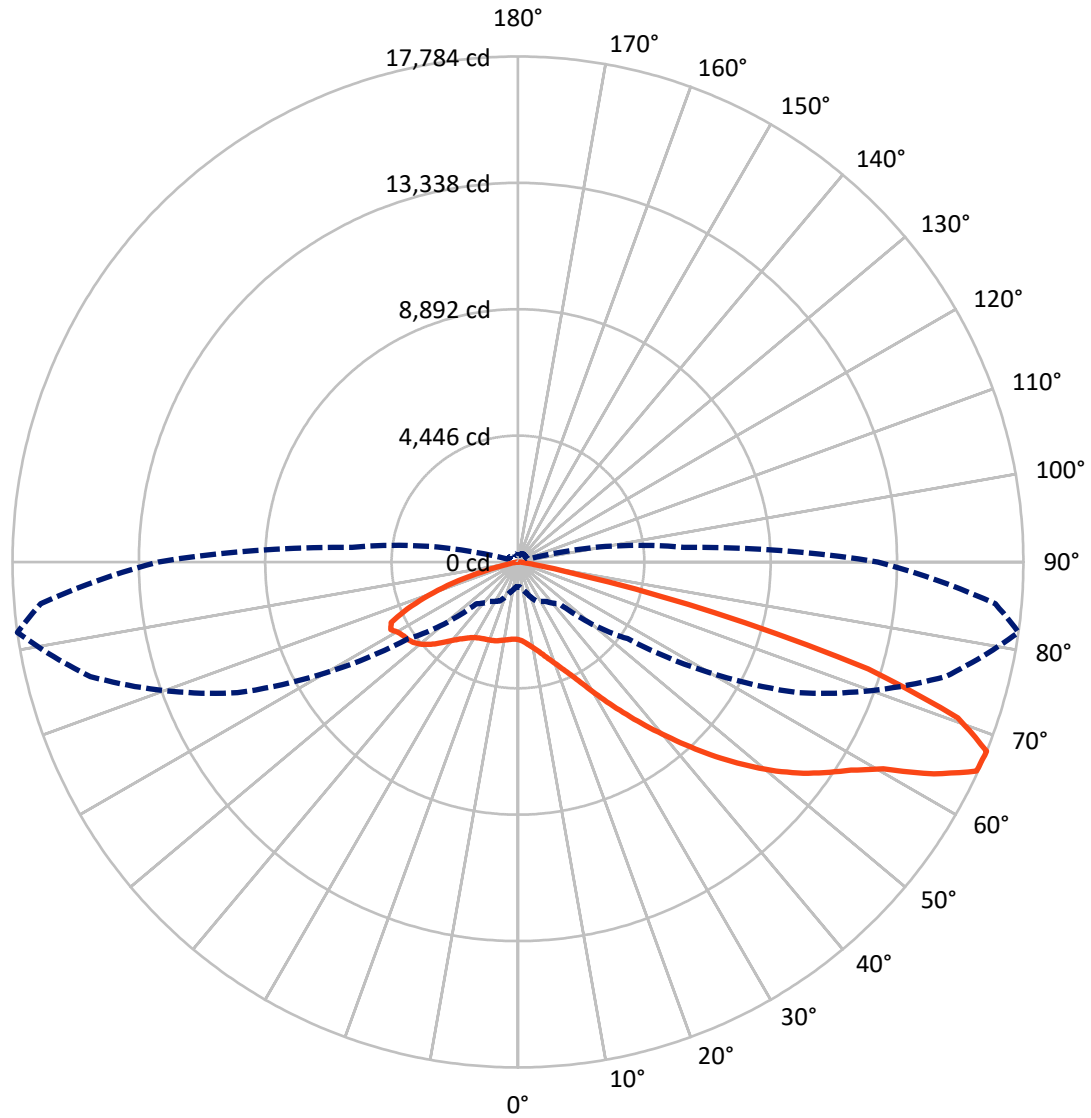
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2985.2	0.0	2985.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13494.8	0.0	13494.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16480.0	0.0	16480.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.2	1.5
10°-20°	632.1	3.8
20°-30°	1012.4	6.1
30°-40°	1790.2	10.9
40°-50°	3136.6	19.0
50°-60°	4183.4	25.4
60°-70°	3894.5	23.6
70°-80°	1494.7	9.1
80°-90°	92.8	0.6
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°	16480.0	100.0
0°-180°	16480.0	100.0

**Coefficient of Utilization**



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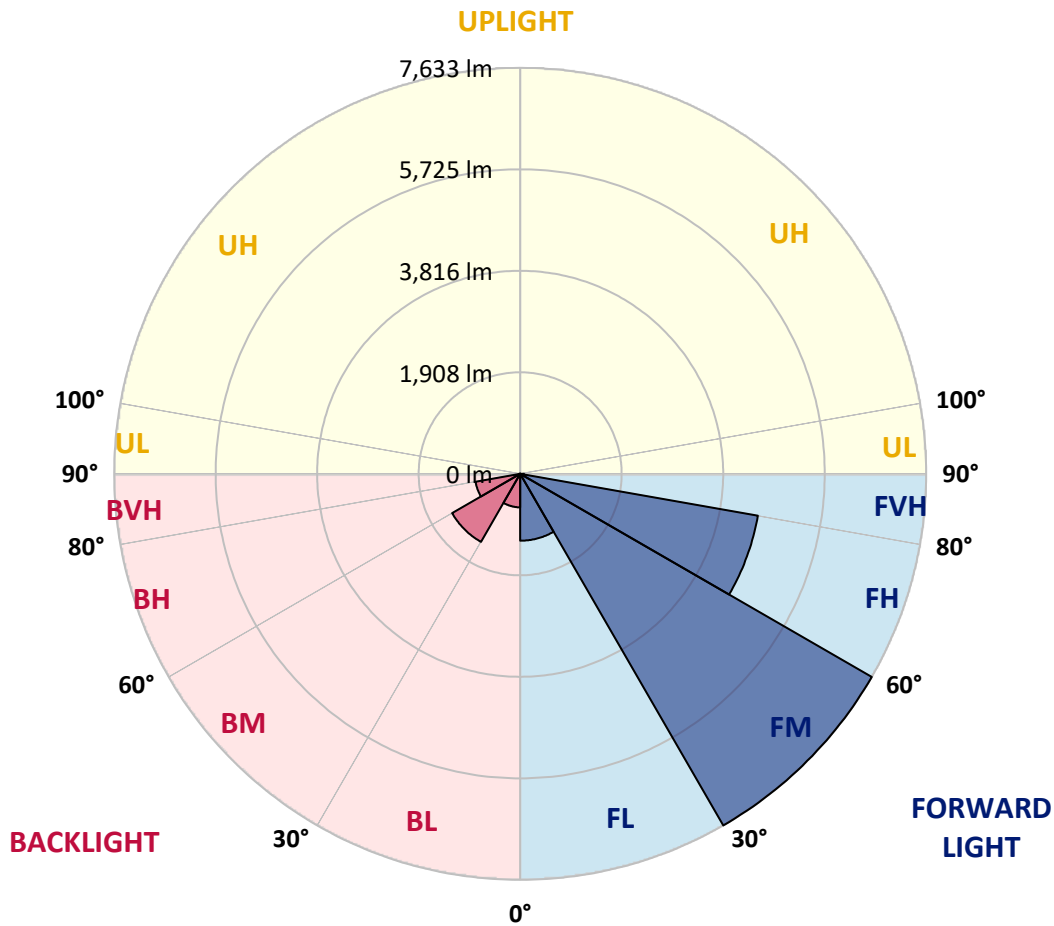
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.2	7.6			
FM (30°-60°)	7632.9	46.3			
FH (60°-80°)	4537.2	27.5			G2/5000
FVH (80°-90°)	67.5	0.4			G1/100
BL (0°-30°)	630.5	3.8	B2/1000		
BM (30°-60°)	1477.4	9.0	B2/2500		
BH (60°-80°)	852.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2
2.5°	2885.6	2902.2	2892.7	2888.0	2879.7	2867.8	2858.3	2828.7	2797.8	2777.6
5°	2943.8	2960.4	2959.2	2963.9	2969.9	2973.4	2971.0	2937.8	2893.9	2859.5
7.5°	2893.9	2912.9	2928.3	2952.1	2993.6	3037.5	3058.8	3051.7	3006.6	2959.2
10°	2752.7	2772.9	2809.7	2865.4	2953.2	3048.2	3127.7	3164.4	3136.0	3083.8
12.5°	2494.1	2514.2	2586.6	2707.6	2854.8	3019.7	3171.6	3270.0	3277.2	3225.0
15°	2203.4	2223.5	2300.7	2452.5	2676.8	2941.4	3195.3	3381.6	3444.5	3399.4
17.5°	2023.0	2040.8	2099.0	2221.2	2454.9	2784.8	3187.0	3500.2	3643.8	3608.2
20°	1968.4	1983.9	2011.1	2096.6	2291.2	2622.2	3132.4	3611.8	3858.6	3838.4
22.5°	2026.6	2040.8	2049.1	2087.1	2209.3	2515.4	3063.6	3725.7	4107.7	4110.1
25°	2160.6	2174.9	2165.4	2189.1	2242.5	2482.2	3037.5	3859.7	4421.0	4447.1
27.5°	2381.3	2382.5	2360.0	2358.8	2367.1	2532.0	3064.8	4003.3	4816.1	4864.7
30°	2823.9	2806.1	2719.5	2625.8	2583.1	2681.5	3140.7	4173.0	5282.4	5369.0
32.5°	3506.2	3480.1	3321.1	3096.8	2871.4	2922.4	3277.2	4366.4	5790.2	5946.8
35°	4246.5	4239.4	4073.3	3739.9	3346.0	3265.3	3499.0	4620.3	6344.3	6593.5
37.5°	4934.7	4931.2	4836.2	4443.5	3964.2	3743.5	3855.0	4952.5	6937.6	7298.3
40°	5563.6	5574.3	5479.3	5128.1	4645.2	4356.9	4339.1	5363.1	7597.3	8066.0
42.5°	6107.0	6118.9	6022.8	5762.9	5318.0	5035.6	4933.5	5866.1	8241.6	8890.6
45°	6476.0	6549.6	6535.3	6327.7	6008.5	5715.5	5647.8	6497.4	8976.0	9765.0
47.5°	6580.4	6648.1	6754.8	6783.3	6588.7	6300.4	6381.1	7257.9	9718.8	10640.7
50°	6323.0	6385.8	6607.7	6903.2	7038.4	6949.4	7094.2	8073.1	10479.3	11514.0
52.5°	5815.1	5879.2	6159.2	6626.7	7178.4	7458.5	7809.7	8876.3	11216.2	12341.0
55°	5080.7	5148.3	5507.8	6037.0	6911.5	7668.5	8406.5	9678.4	11891.3	13084.9
57.5°	4081.6	4131.5	4505.2	5245.6	6239.9	7459.6	8846.7	10554.1	12527.3	13815.8
60°	2660.2	2704.1	3138.3	3964.2	5126.9	6762.0	8934.5	11530.6	13372.1	14766.2
62.5°	1769.1	1798.8	2056.2	2662.5	3610.6	5422.4	8420.7	12310.1	14610.8	16420.2
65°	1213.8	1243.5	1500.9	1923.3	2332.7	3586.8	6943.5	12206.9	15733.2	17733.7
67.5°	866.2	891.1	1109.4	1508.1	1688.4	2083.5	4706.9	10887.5	15571.9	17783.5
70°	620.5	634.8	815.1	1174.7	1342.0	1251.8	2617.5	8327.0	13634.3	16421.4
72.5°	434.3	439.0	566.0	894.6	1080.9	913.6	1245.8	5551.7	10312.0	12889.1
75°	294.3	300.2	380.9	656.1	867.3	697.7	659.7	2977.0	6053.6	7134.5
77.5°	180.4	182.7	245.6	448.5	649.0	531.6	424.8	1261.3	2342.2	2299.5
80°	102.0	102.0	156.6	278.8	442.6	342.9	297.8	536.3	741.6	651.4
82.5°	57.0	58.1	113.9	173.2	293.1	202.9	163.7	248.0	320.4	283.6
85°	23.7	26.1	70.0	81.9	140.0	100.9	66.4	104.4	118.7	105.6
87.5°	2.4	3.6	21.4	15.4	16.6	20.2	9.5	20.2	16.6	16.6
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°
2730.2	0°	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2
2770.5	2.5°	2748.0	2730.2	2685.1	2632.9	2564.1	2530.8	2485.8	2454.9	2428.8	2431.2
2839.3	5°	2801.4	2756.3	2655.4	2529.7	2373.0	2261.5	2142.9	2061.0	1994.5	1980.3
2934.3	7.5°	2874.9	2803.7	2627.0	2400.3	2135.7	1935.2	1756.0	1641.0	1559.1	1533.0
3049.4	10°	2969.9	2866.6	2590.2	2237.8	1856.9	1601.8	1409.6	1319.4	1263.6	1244.7
3184.6	12.5°	3080.2	2939.0	2541.5	2039.6	1569.8	1324.2	1201.9	1156.9	1139.1	1133.1
3350.7	15°	3219.0	3029.2	2468.0	1804.7	1326.5	1154.5	1102.3	1096.3	1098.7	1096.3
3550.1	17.5°	3383.9	3127.7	2348.1	1562.6	1162.8	1067.9	1048.9	1053.6	1059.6	1058.4
3773.1	20°	3564.3	3225.0	2195.1	1347.9	1051.3	1006.2	995.5	1000.2	1005.0	1002.6
4030.6	22.5°	3769.6	3329.4	2025.4	1180.6	976.5	949.2	937.3	938.5	938.5	933.8
4356.9	25°	4015.2	3444.5	1847.4	1061.9	919.6	898.2	884.0	879.2	872.1	857.9
4753.2	27.5°	4308.2	3566.7	1676.6	978.9	874.5	854.3	837.7	825.8	808.0	784.3
5229.0	30°	4638.1	3715.0	1531.8	926.7	838.9	818.7	799.7	781.9	755.8	726.1
5776.0	32.5°	5026.1	3874.0	1426.2	892.3	806.8	785.5	762.9	741.6	713.1	683.4
6390.6	35°	5488.8	4066.2	1364.5	868.5	781.9	753.4	728.5	704.8	683.4	657.3
7058.6	37.5°	5990.7	4270.3	1345.5	856.7	765.3	721.4	692.9	676.3	673.9	658.5
7781.2	40°	6540.1	4512.3	1359.7	849.5	747.5	690.6	659.7	656.1	662.1	634.8
8553.6	42.5°	7121.5	4799.5	1383.5	841.2	722.6	659.7	630.0	630.0	625.3	587.3
9369.9	45°	7750.3	5130.5	1407.2	821.1	692.9	628.9	606.3	598.0	577.8	541.1
10191.0	47.5°	8383.9	5467.5	1425.0	784.3	657.3	602.8	582.6	563.6	533.9	500.7
10996.7	50°	8985.5	5770.0	1406.0	729.7	617.0	577.8	556.5	530.4	498.3	475.8
11759.6	52.5°	9523.0	6032.3	1325.3	665.6	574.3	551.7	532.7	505.5	479.4	455.6
12447.8	55°	9990.5	6244.6	1183.0	605.1	536.3	529.2	510.2	475.8	440.2	420.0
13130.0	57.5°	10439.0	6406.0	1005.0	555.3	501.9	504.3	475.8	444.9	411.7	390.4
14049.6	60°	11035.8	6622.0	824.6	509.0	465.1	472.2	441.4	418.8	377.3	350.0
15626.4	62.5°	11989.8	6957.7	655.0	452.1	422.4	424.8	411.7	384.4	334.6	302.6
16795.2	65°	12746.8	6834.3	516.1	390.4	373.8	377.3	377.3	347.6	294.3	257.5
<b>16858.1</b>	<b>67.5°</b>	<b>12661.3</b>	<b>5851.9</b>	<b>411.7</b>	<b>329.9</b>	<b>327.5</b>	<b>329.9</b>	<b>338.2</b>	<b>313.2</b>	<b>261.0</b>	<b>231.4</b>
15574.2	70°	11663.5	4654.7	329.9	274.1	284.8	278.8	302.6	286.0	234.9	205.3
12074.0	72.5°	9517.1	3353.1	251.5	226.6	218.3	227.8	272.9	257.5	195.8	162.6
6395.3	75°	5561.2	1789.3	187.5	179.2	157.8	189.8	242.0	219.5	149.5	119.8
1960.1	77.5°	1810.6	624.1	137.6	131.7	117.5	153.1	206.5	185.1	122.2	94.9
574.3	80°	485.3	188.7	93.7	86.6	75.9	113.9	163.7	147.1	87.8	61.7
246.8	82.5°	194.6	79.5	54.6	48.6	41.5	78.3	129.3	118.7	65.3	39.2
77.1	85°	62.9	26.1	20.2	15.4	19.0	48.6	77.1	80.7	46.3	20.2
11.9	87.5°	8.3	3.6	3.6	4.7	3.6	8.3	23.7	22.5	13.1	2.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2730.2
2407.4
1948.3
1506.9
1230.4
1129.6
1095.2
1056.0
1001.4
931.4
855.5
781.9
723.8
684.6
655.0
657.3
636.0
587.3
539.9
499.5
472.2
453.2
417.7
388.0
346.5
300.2
253.9
226.6
201.7
159.0
116.3
91.4
60.5
39.2
15.4
0.0
0.0

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