

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: P940686

Luminaire Tested: **GALN-SB3D-840-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

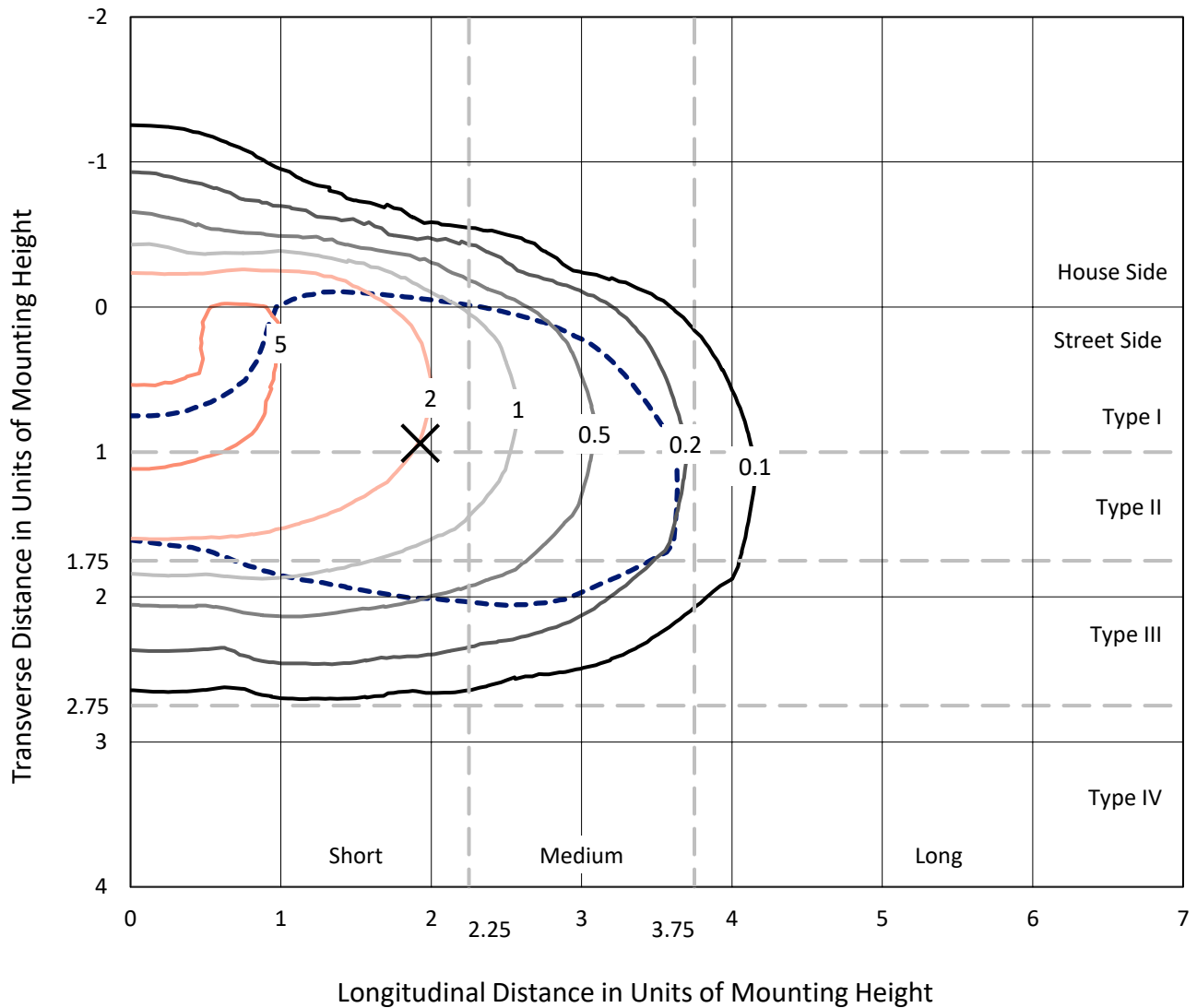
Lumens per Lamp: N/A  
Luminaire Lumens: 22904 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

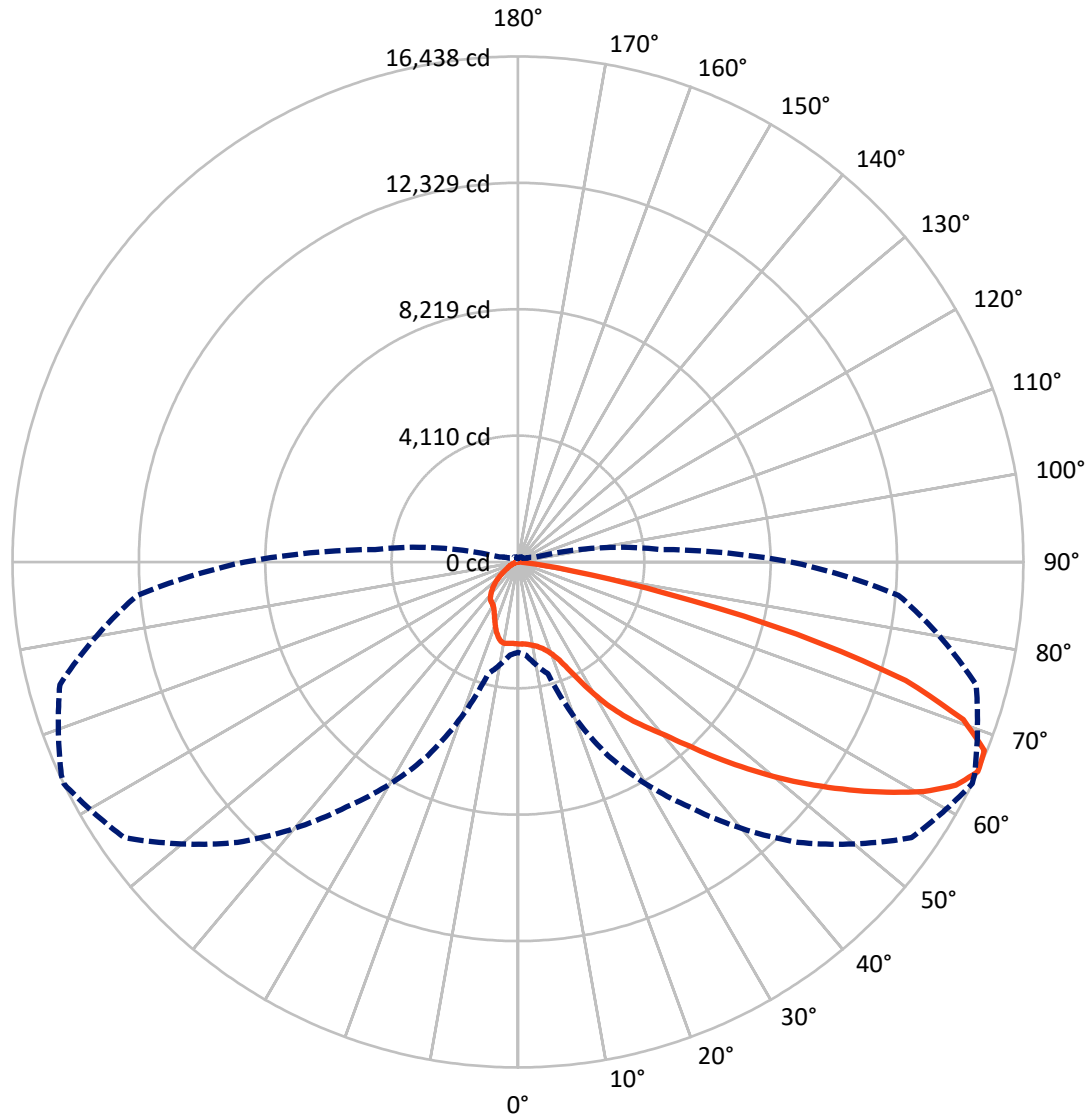
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P940686  
CATALOG NUMBER: GALN-SB3D-840-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3063.0	0.0	3063.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	19841.0	0.0	19841.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	22904.0	0.0	22904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.8	1.1
10°-20°	666.6	2.9
20°-30°	1263.2	5.5
30°-40°	2556.1	11.2
40°-50°	4354.3	19.0
50°-60°	5921.6	25.9
60°-70°	5560.6	24.3
70°-80°	2227.8	9.7
80°-90°	107.9	0.5
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°	22904.0	100.0
0°-180°	22904.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940686

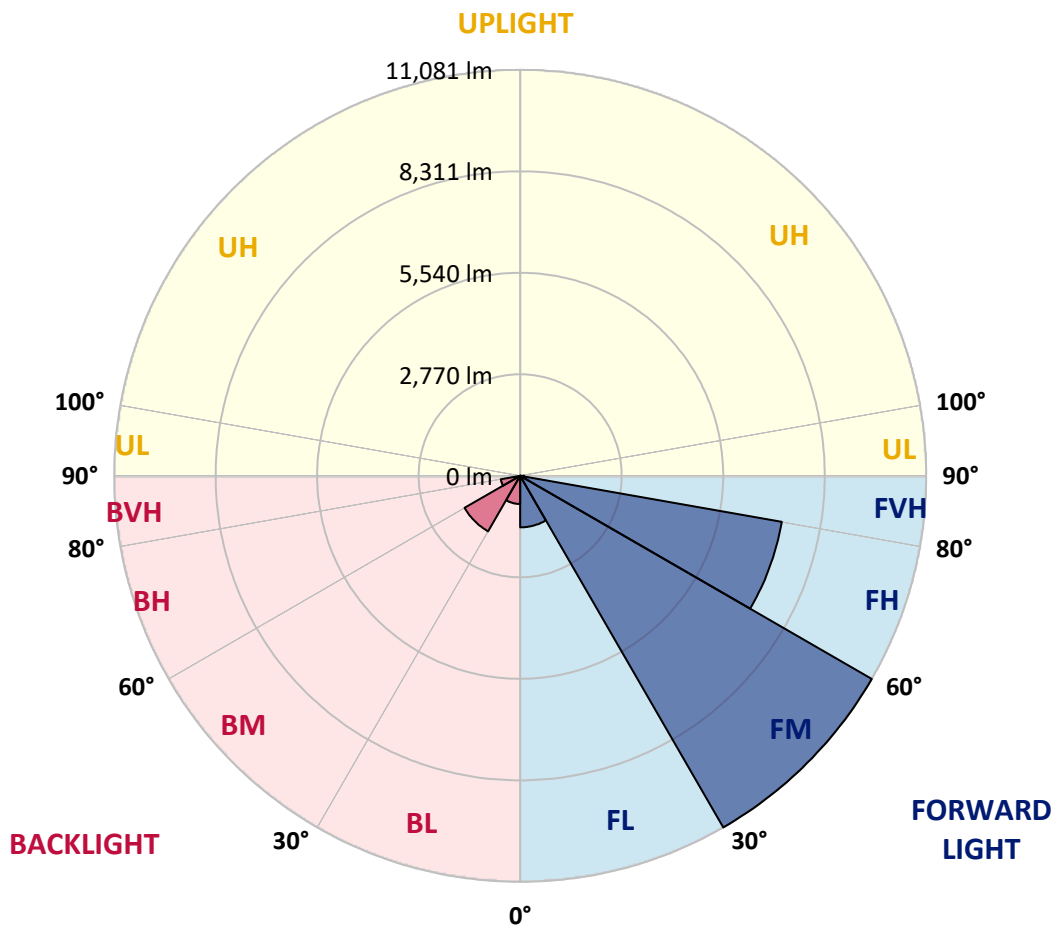
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.6	6.1			
FM (30°-60°)	11080.9	48.4			
FH (60°-80°)	7250.9	31.7			G3/7500
FVH (80°-90°)	102.7	0.4			G2/225
BL (0°-30°)	769.0	3.4	B2/1000		
BM (30°-60°)	1751.1	7.6	B2/2500		
BH (60°-80°)	537.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short



REPORT NUMBER: P940686

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	2654.8	2673.2	2668.6	2664.0	2662.4	2665.5	2667.0	2665.5	2665.5	2665.5
5°	2604.1	2619.4	2619.4	2630.2	2645.5	2664.0	2677.8	2680.9	2683.9	2688.5
7.5°	2507.4	2519.6	2528.9	2564.2	2602.6	2651.7	2693.1	2714.6	2717.7	2734.6
10°	2441.3	2456.7	2472.0	2508.9	2564.2	2637.9	2708.5	2760.7	2768.4	2808.3
12.5°	2438.3	2453.6	2473.6	2513.5	2578.0	2656.3	2742.3	2817.5	2831.3	2889.7
15°	2470.5	2488.9	2507.4	2556.5	2625.6	2720.8	2812.9	2906.6	2920.4	3003.3
17.5°	2536.5	2561.1	2574.9	2624.1	2697.8	2803.7	2925.0	3032.5	3044.8	3141.5
20°	2667.0	2696.2	2700.8	2740.7	2812.9	2926.5	3070.9	3204.4	3219.8	3330.4
22.5°	2937.3	2978.7	2941.9	2961.8	3026.3	3140.0	3296.6	3465.5	3487.0	3612.9
25°	3413.3	3471.6	3376.4	3342.6	3370.3	3488.5	3685.0	3898.5	3923.0	4024.4
27.5°	4348.3	4273.1	4128.8	3987.5	3904.6	3972.2	4193.3	4457.4	4488.1	4586.3
30°	5375.5	5309.5	5114.5	4801.3	4604.8	4594.0	4798.2	5093.0	5128.3	5222.0
32.5°	6404.3	6341.3	6129.4	5744.0	5403.2	5234.3	5375.5	5702.6	5721.0	5780.9
35°	7416.1	7351.6	7139.8	6745.1	6326.0	5942.1	5914.5	6283.0	6289.1	6352.1
37.5°	8434.1	8380.4	8154.7	7767.7	7354.7	6825.0	6568.6	6832.7	6840.3	6901.8
40°	9160.4	9183.4	9028.3	8728.9	8374.2	7795.4	7302.5	7417.7	7371.6	7474.5
42.5°	9783.8	9829.8	9694.7	9544.2	9338.5	8828.7	8211.5	8191.5	8117.8	8173.1
45°	10322.7	10361.1	10239.8	10204.5	10199.9	9842.1	9204.9	9085.1	8982.3	8971.5
47.5°	10520.8	10594.5	10646.7	10764.9	10995.2	10844.8	10232.1	10046.3	9931.2	9846.7
50°	10596.0	10674.3	10852.4	11196.4	11741.4	11805.9	11254.7	11045.9	10904.6	10751.1
52.5°	10494.7	10634.4	10873.9	11452.8	12243.5	12576.7	12235.9	12053.1	11891.9	11641.6
55°	9897.4	10037.1	10526.9	11449.7	12493.8	13117.2	13163.3	13081.9	12900.7	12506.1
57.5°	8638.3	8845.6	9621.0	11059.7	12489.2	13582.4	14072.2	14130.6	13927.9	13362.9
60°	6894.1	7175.1	8120.9	10195.3	12103.8	13834.2	14869.1	15160.8	14945.9	14207.3
62.5°	4810.5	5136.0	6031.2	8841.0	11222.5	13653.1	15451.0	15990.0	15827.2	14962.8
65°	2934.2	3038.6	3760.3	6957.0	9723.9	12894.6	15630.7	16438.3	16384.6	15424.9
67.5°	1954.6	2042.1	2249.4	4770.6	7548.2	11379.1	15200.8	16360.0	16375.4	15349.7
70°	1177.7	1252.9	1388.0	2774.5	4891.9	9006.8	13869.5	15362.0	15451.0	14344.0
72.5°	485.2	535.9	658.7	1257.5	2533.5	5716.4	11044.4	13189.4	13396.6	12060.8
75°	274.8	300.9	386.9	631.1	1099.4	2664.0	6689.9	9363.1	9668.6	8312.8
77.5°	182.7	195.0	250.3	408.4	618.8	909.0	2859.0	4878.1	5461.5	4540.3
80°	122.8	133.6	172.0	273.3	402.3	390.0	910.5	1807.2	2223.3	1560.0
82.5°	82.9	84.4	122.8	179.6	254.9	188.9	268.7	562.0	706.3	451.4
85°	47.6	46.1	90.6	104.4	113.6	78.3	81.4	168.9	221.1	190.4
87.5°	6.1	9.2	35.3	27.6	15.4	16.9	16.9	29.2	43.0	46.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940686  
 CATALOG NUMBER: GALN-SB3D-840-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2664.0	0°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2667.0	2.5°	2667.0	2665.5	2660.9	2656.3	2645.5	2639.4	2642.5	2639.4	2637.9	2639.4
2687.0	5°	2687.0	2682.4	2670.1	2654.8	2633.3	2607.2	2590.3	2565.7	2542.7	2528.9
2740.7	7.5°	2740.7	2736.1	2719.2	2676.3	2607.2	2498.1	2398.3	2310.8	2244.8	2206.4
2826.7	10°	2826.7	2819.1	2792.9	2697.8	2516.6	2278.6	2080.5	1916.2	1808.7	1758.1
2928.1	12.5°	2928.1	2918.9	2872.8	2677.8	2344.6	1973.0	1699.7	1517.0	1417.2	1372.7
3044.8	15°	3047.8	3035.5	2945.0	2582.6	2094.3	1635.2	1385.0	1248.3	1183.8	1143.9
3193.7	17.5°	3196.8	3175.3	2998.7	2439.8	1822.6	1377.3	1191.5	1088.6	1031.8	993.4
3388.7	20°	3390.2	3354.9	3041.7	2269.4	1572.3	1214.5	1061.0	975.0	932.0	898.2
3665.1	22.5°	3660.5	3609.8	3093.9	2085.1	1395.7	1102.4	964.3	901.3	866.0	827.6
4050.5	25°	3995.2	3935.3	3158.4	1914.7	1274.4	1005.7	893.6	841.4	800.0	755.4
4555.6	27.5°	4463.5	4356.0	3235.2	1775.0	1170.0	922.8	829.1	770.8	723.2	686.3
5128.3	30°	4985.5	4809.0	3302.7	1690.5	1074.8	846.0	744.7	686.3	641.8	615.7
5642.7	32.5°	5480.0	5240.4	3347.2	1653.7	988.8	758.5	652.6	589.6	555.8	548.1
6146.3	35°	5946.7	5630.4	3342.6	1618.3	912.0	671.0	562.0	497.5	471.4	476.0
6688.3	37.5°	6484.1	6046.5	3310.4	1563.1	849.1	591.1	483.7	426.8	403.8	405.4
7347.0	40°	7109.0	6527.1	3290.4	1458.7	780.0	517.4	419.2	373.1	356.2	350.1
8041.1	42.5°	7775.4	6992.4	3293.5	1340.4	694.0	451.4	374.6	336.3	320.9	316.3
8813.4	45°	8444.9	7436.1	3298.1	1217.6	603.4	400.7	342.4	310.2	300.9	294.8
9596.4	47.5°	9074.4	7813.8	3212.1	1085.5	514.4	362.4	316.3	294.8	287.1	279.4
10382.6	50°	9660.9	8065.6	3004.8	932.0	443.7	331.7	296.3	281.0	273.3	265.6
11095.0	52.5°	10117.0	8105.5	2662.4	773.9	394.6	308.6	284.1	270.2	261.0	253.3
11670.8	55°	10319.6	7855.3	2175.7	626.5	356.2	288.7	271.8	258.0	247.2	239.5
12123.8	57.5°	10267.4	7328.6	1696.7	503.6	319.4	268.7	256.4	247.2	234.9	222.6
12490.7	60°	10011.0	6623.8	1279.0	419.2	285.6	247.2	239.5	231.9	215.0	196.5
12632.0	62.5°	9567.3	5737.9	912.0	347.0	248.7	222.6	219.6	213.4	188.9	155.1
12423.2	65°	8888.6	4661.6	614.2	288.7	213.4	195.0	196.5	185.8	153.5	115.2
11658.5	67.5°	7896.7	3408.7	393.1	236.5	178.1	162.8	164.3	158.1	130.5	98.3
10209.1	70°	6633.1	2257.1	256.4	179.6	142.8	125.9	135.1	136.7	110.6	79.8
7835.3	72.5°	4862.7	1332.8	179.6	133.6	104.4	87.5	110.6	113.6	89.1	59.9
4713.8	75°	2771.5	632.6	135.1	96.7	64.5	61.4	86.0	86.0	61.4	39.9
2040.6	77.5°	1163.9	264.1	95.2	63.0	36.9	35.3	58.3	53.7	30.7	18.4
497.5	80°	336.3	118.2	50.7	30.7	15.4	13.8	23.0	16.9	7.7	3.1
188.9	82.5°	132.0	52.2	20.0	12.3	6.1	6.1	3.1	0.0	0.0	0.0
107.5	85°	78.3	21.5	9.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0
23.0	87.5°	20.0	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°  
2664.0  
2645.5  
2531.9  
2207.9  
1753.5  
1368.1  
1145.4  
990.4  
892.1  
821.5  
750.8  
678.7  
611.1  
552.8  
476.0  
411.5  
348.5  
314.8  
294.8  
279.4  
265.6  
251.8  
238.0  
221.1  
193.5  
152.0  
*112.1*  
93.7  
76.8  
56.8  
36.9  
18.4  
3.1  
0.0  
0.0  
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0.0

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