

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: P944691

Luminaire Tested: **GALN-SB9D-735-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

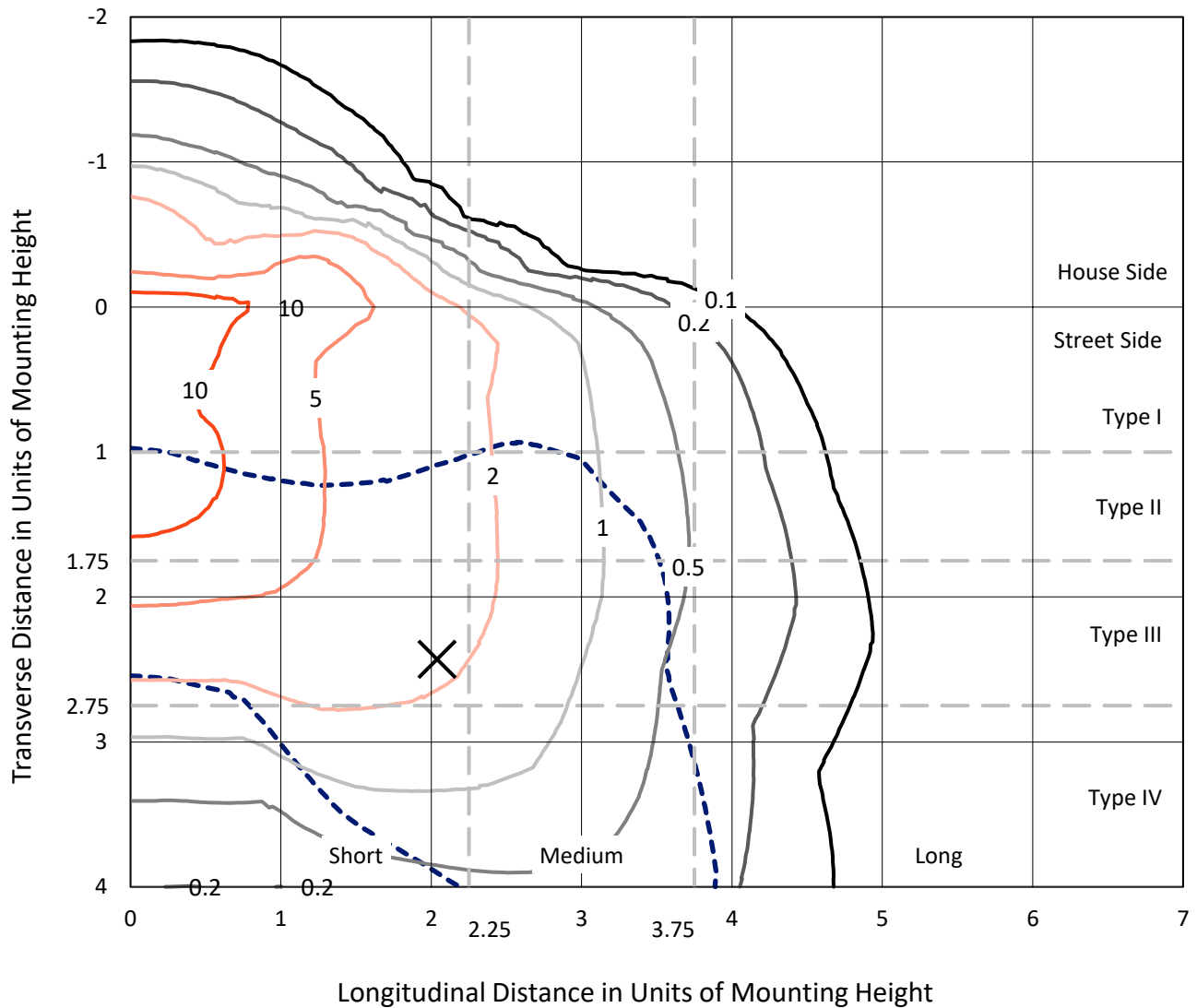
Lumens per Lamp: N/A  
Luminaire Lumens: 64700 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

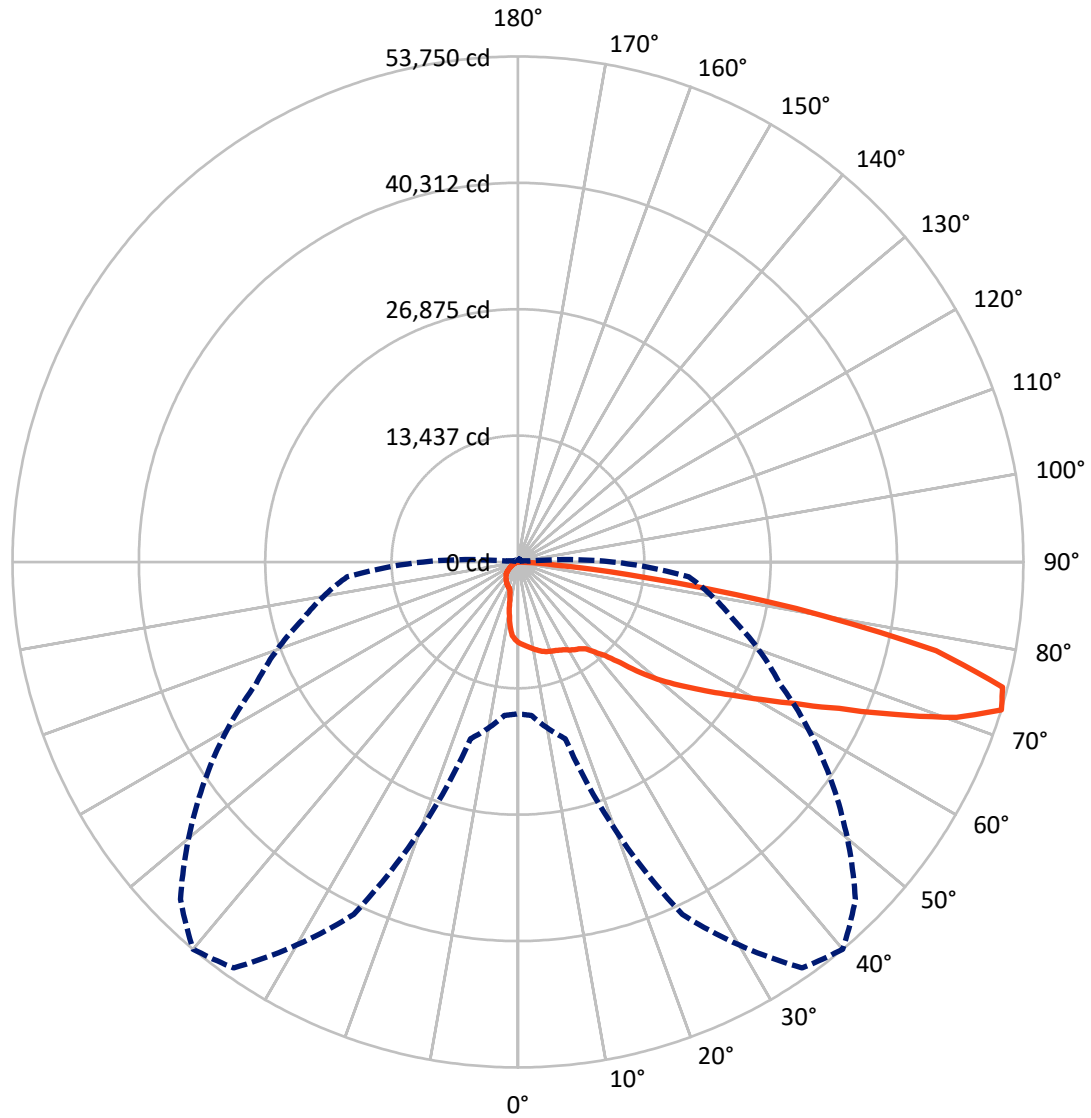
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P944691  
CATALOG NUMBER: GALN-SB9D-735-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: GALN-SB9D-735-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8355.3	0.0	8355.3
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	56344.7	0.0	56344.7
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	64700.0	0.0	64700.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	782.4	1.2
10°-20°	2124.7	3.3
20°-30°	3437.9	5.3
30°-40°	5075.6	7.8
40°-50°	8542.3	13.2
50°-60°	13263.9	20.5
60°-70°	16596.9	25.7
70°-80°	13587.9	21.0
80°-90°	1288.4	2.0
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°	64700.0	100.0
0°-180°	64700.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944691

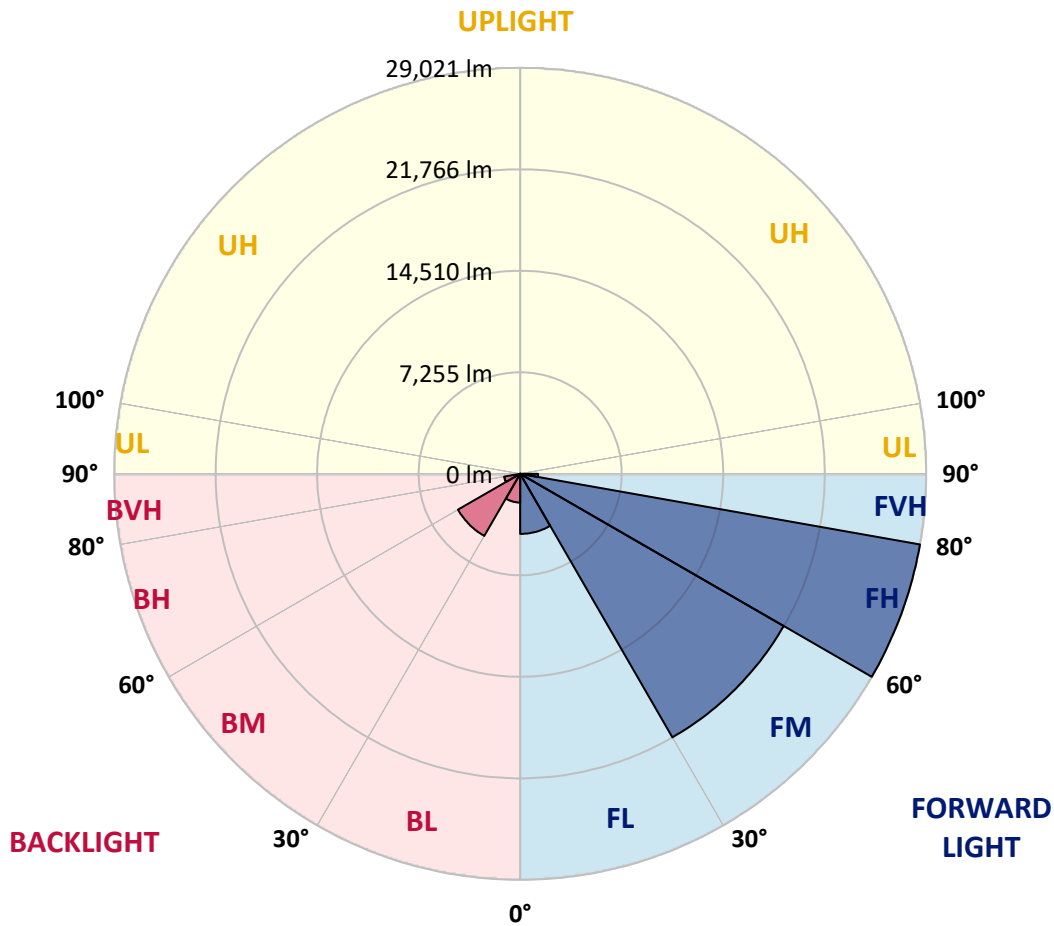
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4294.2	6.6			
FM (30°-60°)	21751.0	33.6			
FH (60°-80°)	29020.8	44.9			G5
FVH (80°-90°)	1278.6	2.0			G5
BL (0°-30°)	2050.8	3.2	B3/2500		
BM (30°-60°)	5130.7	7.9	B4/8500		
BH (60°-80°)	1164.0	1.8	B3/2500		G3/2500
BVH (80°-90°)	9.8	0.0			G0/10
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 Short



REPORT NUMBER: P944691

CATALOG NUMBER: GALN-SB9D-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8
2.5°	8825.1	8859.2	8839.7	8800.7	8791.0	8771.5	8747.1	8737.4	8703.2	8674.0
5°	9073.6	9107.7	9083.3	9029.7	9005.4	8981.0	8946.9	8917.7	8849.4	8786.1
7.5°	9346.5	9375.7	9346.5	9268.5	9229.5	9200.3	9151.6	9107.7	9029.7	8937.2
10°	9648.6	9673.0	9629.1	9526.8	9463.4	9419.6	9375.7	9327.0	9253.9	9151.6
12.5°	9931.3	9960.5	9892.3	9770.4	9697.3	9653.5	9604.8	9565.8	9492.7	9395.2
15°	10189.5	10233.4	10116.4	9984.9	9902.0	9867.9	9819.2	9794.8	9746.1	9677.9
17.5°	10384.4	10413.7	10291.9	10135.9	10043.3	10019.0	9984.9	9999.5	9989.7	9955.6
20°	10550.1	10569.6	10408.8	10218.8	10116.4	10121.3	10111.6	10160.3	10179.8	10179.8
22.5°	10754.8	10759.7	10555.0	10316.2	10194.4	10228.5	10243.1	10296.7	10335.7	10374.7
25°	11022.8	11013.1	10769.4	10442.9	10335.7	10384.4	10418.6	10438.1	10481.9	10545.3
27.5°	11422.4	11393.2	11081.3	10647.6	10520.9	10564.8	10628.1	10618.4	10598.9	10647.6
30°	11929.2	11890.2	11476.0	10935.1	10818.1	10857.1	10876.6	10788.9	10647.6	10691.5
32.5°	12733.3	12665.0	12090.0	11256.7	11076.4	11120.3	11095.9	10915.6	10706.1	10749.9
35°	14131.8	13966.1	13152.3	11929.2	11368.8	11320.1	11261.6	11086.2	10827.9	10784.0
37.5°	17104.4	16812.0	15423.2	13240.1	12031.5	11714.8	11534.5	11359.1	10959.5	10784.0
40°	20457.0	20159.8	18556.5	15432.9	13132.8	12596.8	12168.0	11680.7	11095.9	10847.4
42.5°	23955.9	23629.4	21982.3	18152.1	14706.8	13605.5	12806.3	11938.9	11320.1	11042.3
45°	27864.0	27454.7	25300.8	20988.2	16992.3	15281.9	13834.6	12470.1	11709.9	11388.3
47.5°	31986.6	31455.5	28609.6	23741.5	19453.2	17601.4	15715.6	13420.4	12284.9	11904.8
50°	35641.4	35115.1	32025.6	26621.4	21753.3	19808.9	17859.7	14736.1	13147.5	12635.8
52.5°	38268.0	37868.4	35134.6	29594.0	24145.9	21880.0	19804.0	16266.2	14239.0	13571.4
55°	40027.2	39661.7	37337.2	32410.6	26928.4	24160.5	21719.1	17927.9	15554.7	14692.2
57.5°	41094.3	40884.8	38930.7	34925.1	29686.6	26655.5	23912.0	19755.3	17104.4	16012.8
60°	41474.4	41303.9	39919.9	37322.6	33019.7	29652.4	26489.8	21816.6	18985.4	17513.7
62.5°	40460.9	40495.0	40631.4	40163.6	36533.2	33161.0	29579.4	24292.1	21071.0	19214.4
65°	35690.1	35972.8	38565.2	43311.6	41186.9	37556.5	33511.9	27313.4	23458.8	21149.0
67.5°	29550.1	29959.5	33185.4	45153.6	46147.7	43262.9	38989.2	31163.1	26304.7	23117.7
70°	22620.7	23059.2	26967.4	44768.6	50791.7	49500.3	45762.7	36060.5	29252.9	24482.2
72.5°	16144.4	16368.5	19448.3	41342.9	52697.1	53749.6	50752.7	40699.6	30758.6	23726.8
75°	11344.4	11305.5	13347.3	33292.6	49729.4	53233.1	49003.3	38190.0	27834.8	18848.9
77.5°	4941.3	4951.0	6666.3	20218.2	39690.9	45465.5	40733.7	23921.8	19404.4	9989.7
80°	1281.6	1320.6	2446.3	8050.3	23897.4	30008.2	24842.8	10516.0	8966.4	2436.5
82.5°	453.2	482.4	1125.7	2529.1	8815.3	13761.5	11061.8	3362.4	2339.1	696.8
85°	131.6	155.9	604.3	774.8	1822.5	3888.7	2685.0	653.0	575.0	360.6
87.5°	0.0	19.5	121.8	107.2	107.2	73.1	136.4	73.1	92.6	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944691  
 CATALOG NUMBER: GALN-SB9D-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8566.8	0°	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8	8566.8
8639.9	2.5°	8610.7	8576.6	8503.5	8425.5	8352.4	8284.2	8264.7	8191.6	8157.5	8162.3
8708.1	5°	8654.5	8591.2	8449.9	8279.3	8103.9	7904.1	7738.4	7504.5	7304.7	7280.3
8839.7	7.5°	8771.5	8669.1	8440.1	8108.7	7670.2	7119.5	6607.8	6101.0	5813.5	5657.6
9034.6	10°	8951.8	8815.3	8464.5	7831.0	6900.2	5915.9	5141.1	4502.7	4176.2	4025.1
9273.4	12.5°	9166.2	9015.1	8503.5	7358.3	5906.1	4614.8	3776.6	3386.8	3318.5	3308.8
9565.8	15°	9468.3	9302.6	8547.3	6719.9	4829.2	3513.5	3128.5	3133.4	3187.0	3216.2
9882.5	17.5°	9804.6	9638.9	8484.0	5940.2	3766.9	3001.8	2992.0	3035.9	3113.9	3143.1
10174.9	20°	10145.7	9989.7	8259.8	5024.1	3045.7	2860.5	2899.5	2948.2	3026.2	3065.1
10462.4	22.5°	10496.5	10360.1	7904.1	4049.5	2748.4	2758.1	2806.9	2855.6	2943.3	2987.2
10745.1	25°	10871.8	10754.8	7431.4	3245.4	2621.7	2650.9	2714.3	2772.8	2865.3	2919.0
10983.8	27.5°	11251.8	11164.1	6895.4	2709.4	2504.7	2538.9	2611.9	2689.9	2782.5	2845.9
11193.4	30°	11666.1	11617.3	6466.5	2509.6	2392.7	2421.9	2504.7	2592.5	2694.8	2772.8
11402.9	32.5°	12090.0	12080.3	6257.0	2655.8	2290.3	2309.8	2382.9	2470.6	2597.3	2694.8
11578.3	35°	12509.1	12528.6	6135.2	3070.0	2256.2	2202.6	2251.3	2329.3	2480.4	2602.2
11778.1	37.5°	13045.1	13093.9	6130.3	3518.3	2339.1	2095.4	2129.5	2183.1	2314.7	2456.0
12090.0	40°	13844.3	14102.6	6442.2	3903.3	2485.3	1997.9	2007.7	2017.4	2085.7	2202.6
12504.2	42.5°	14906.6	15662.0	7567.8	4166.4	2543.7	1910.2	1876.1	1822.5	1812.8	1876.1
13069.5	45°	16227.2	17547.8	9546.3	4312.6	2485.3	1812.8	1720.2	1578.9	1525.3	1569.1
13834.6	47.5°	17781.7	19614.0	11890.2	4346.8	2387.8	1690.9	1525.3	1340.1	1296.2	1310.8
14862.8	50°	19297.2	21163.6	13951.5	4064.1	2227.0	1535.0	1310.8	1154.9	1125.7	1130.5
16076.2	52.5°	20637.3	21694.8	14536.3	3396.5	2012.6	1345.0	1125.7	1018.5	999.0	999.0
17416.2	55°	21524.2	21119.8	12962.3	2597.3	1744.5	1150.0	964.9	911.3	901.5	896.6
18912.3	57.5°	21709.4	19248.5	9789.9	1876.1	1364.5	969.7	857.7	828.4	808.9	789.4
20447.3	60°	21046.7	16129.8	6232.6	1310.8	1023.3	828.4	760.2	740.7	701.7	662.7
21889.7	62.5°	19614.0	12182.6	3450.1	911.3	823.5	706.6	672.5	648.1	575.0	511.7
23034.9	65°	17689.1	8099.0	1525.3	711.5	672.5	594.5	575.0	540.9	453.2	380.1
23468.6	67.5°	15754.5	4663.5	687.1	570.1	540.9	487.3	472.7	448.3	385.0	316.7
22362.4	70°	13547.1	2363.4	472.7	453.2	419.1	370.4	385.0	380.1	316.7	258.3
18239.8	72.5°	10087.2	1174.4	355.7	341.1	302.1	263.1	316.7	311.9	248.5	194.9
11247.0	75°	5711.2	579.9	258.3	238.8	180.3	194.9	253.4	238.8	170.6	126.7
4746.3	77.5°	2266.0	297.3	170.6	146.2	107.2	131.6	185.2	160.8	87.7	53.6
906.4	80°	521.4	146.2	87.7	63.3	48.7	78.0	97.5	58.5	24.4	4.9
243.7	82.5°	146.2	63.3	29.2	24.4	24.4	29.2	24.4	9.7	0.0	0.0
63.3	85°	48.7	29.2	9.7	4.9	4.9	4.9	4.9	0.0	0.0	0.0
19.5	87.5°	19.5	9.7	0.0	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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<u>180°</u>
8566.8
8157.5
7265.7
5647.9
3995.9
3303.9
3211.3
3138.2
3065.1
2987.2
2919.0
2850.7
2782.5
2704.5
2621.7
2480.4
2241.6
1910.2
1569.1
1306.0
1130.5
994.1
886.9
779.7
648.1
492.2
365.5
307.0
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117.0
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