

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: P955286

Luminaire Tested: **GALN-SB8B-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

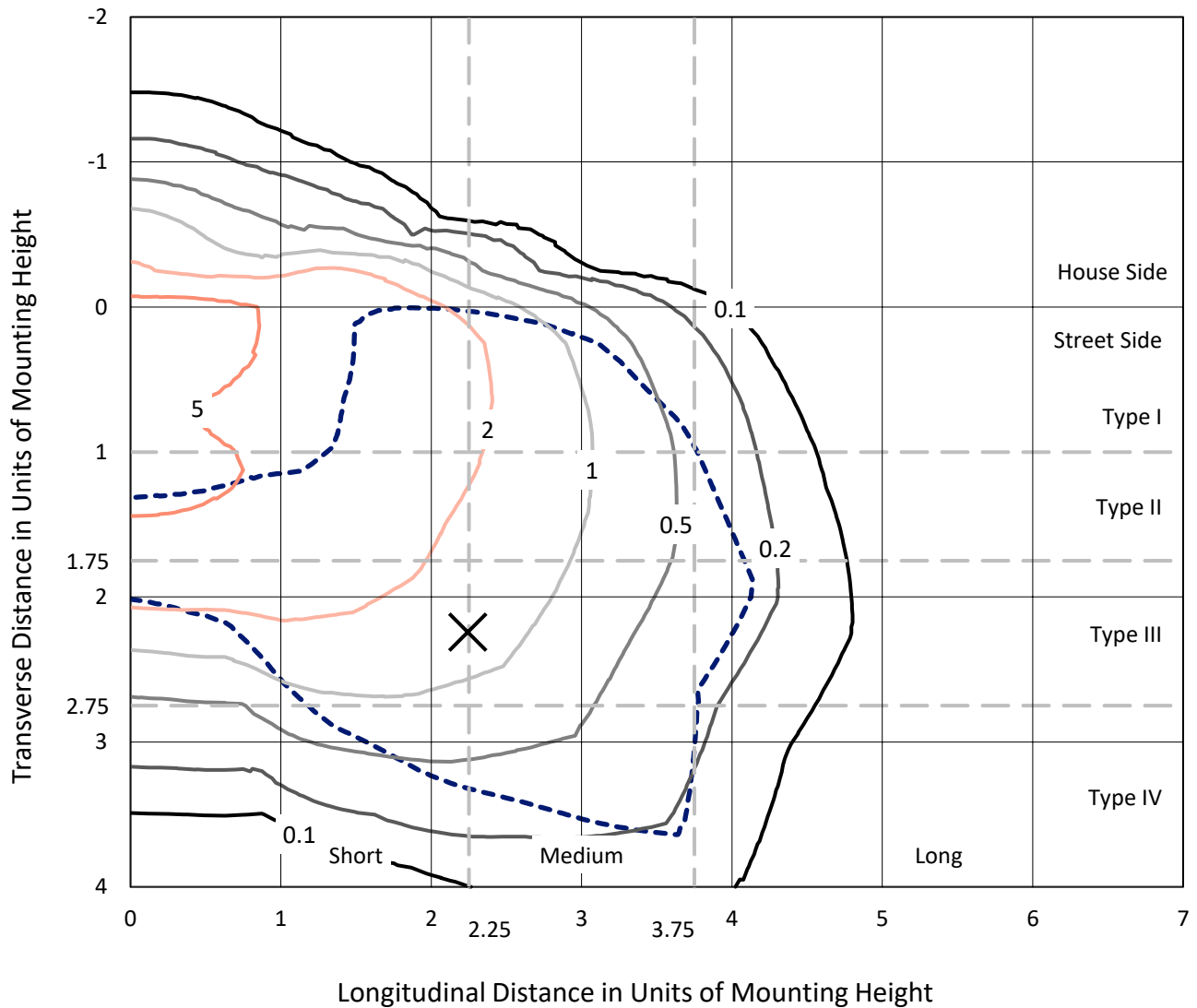
Lumens per Lamp: N/A  
Luminaire Lumens: 37107 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

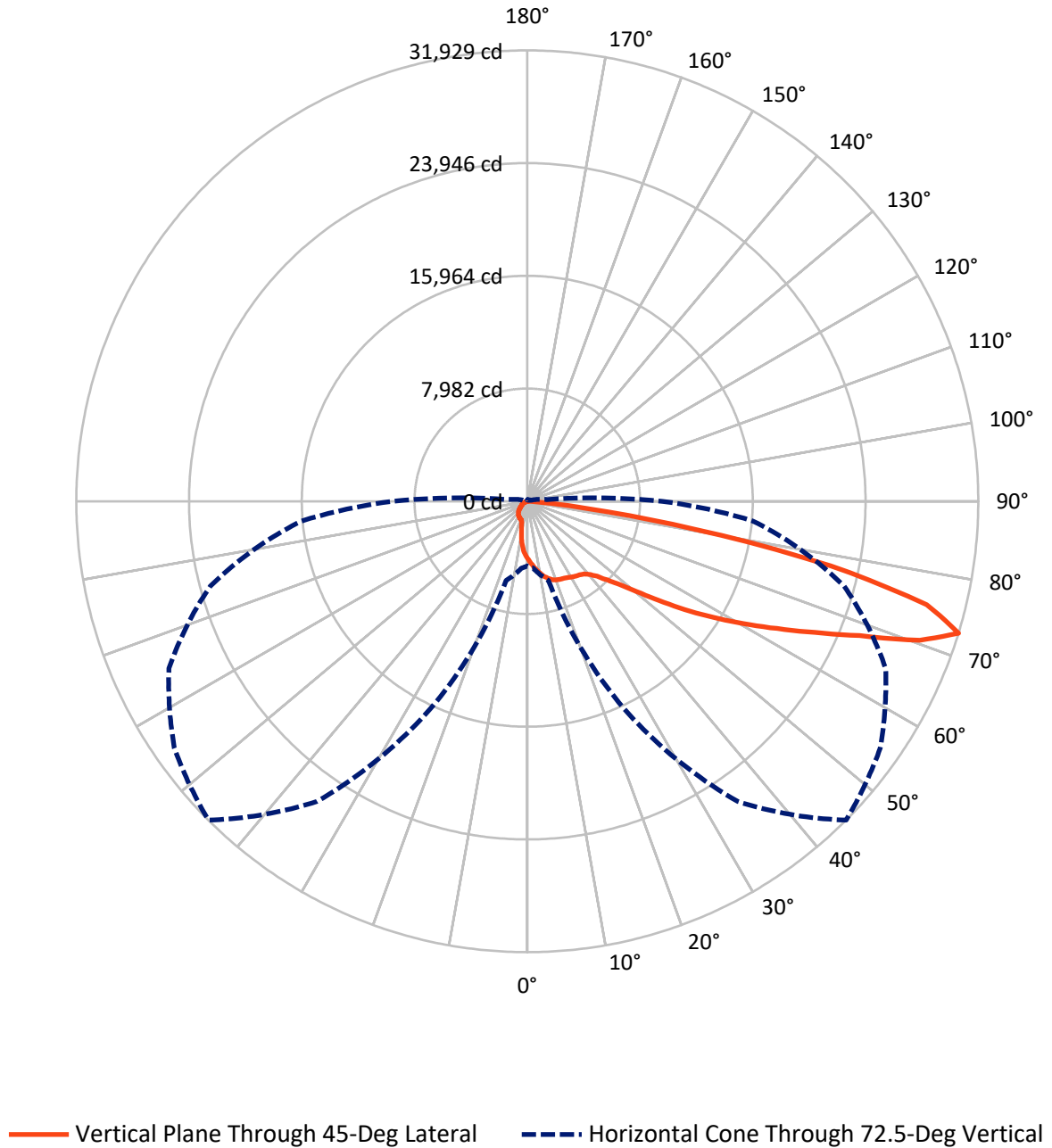
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3898.9	0.0	3898.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	33208.1	0.0	33208.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	37107.0	0.0	37107.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.0	1.0
10°-20°	1119.4	3.0
20°-30°	1838.2	5.0
30°-40°	2607.0	7.0
40°-50°	4309.2	11.6
50°-60°	7741.0	20.9
60°-70°	10748.7	29.0
70°-80°	7796.8	21.0
80°-90°	563.7	1.5
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°	37107.0	100.0
0°-180°	37107.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955286

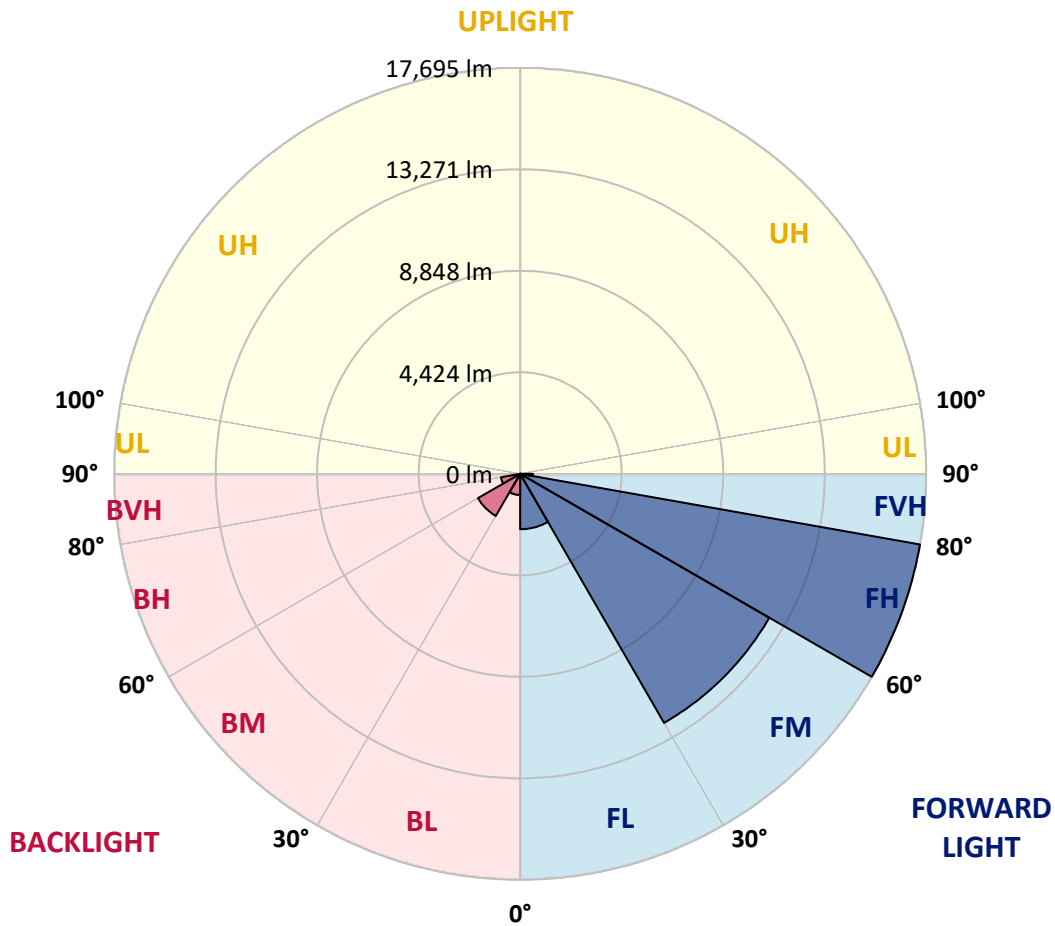
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.2	6.5			
FM (30°-60°)	12536.7	33.8			
FH (60°-80°)	17695.3	47.7			G5
FVH (80°-90°)	558.9	1.5			G4/750
BL (0°-30°)	923.5	2.5	B2/1000		
BM (30°-60°)	2120.5	5.7	B2/2500		
BH (60°-80°)	850.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2
2.5°	4440.0	4447.6	4442.5	4412.1	4361.5	4333.6	4318.4	4267.8	4234.8	4176.6
5°	4847.8	4878.2	4860.5	4799.7	4703.4	4635.0	4614.8	4510.9	4417.2	4308.3
7.5°	5280.9	5296.1	5263.2	5184.7	5055.5	4939.0	4921.2	4776.9	4627.4	4460.3
10°	5655.8	5673.5	5622.8	5508.8	5361.9	5217.6	5192.2	5032.7	4855.4	4650.2
12.5°	5969.8	5987.5	5921.7	5784.9	5622.8	5473.4	5448.1	5280.9	5085.9	4857.9
15°	6207.9	6240.8	6152.2	6005.3	5830.5	5681.1	5668.4	5503.8	5313.8	5060.5
17.5°	6347.2	6380.1	6296.6	6119.3	5969.8	5843.2	5828.0	5691.2	5513.9	5270.8
20°	6370.0	6400.4	6311.7	6157.2	6033.1	5931.8	5924.2	5825.4	5696.3	5463.3
22.5°	6301.6	6339.6	6258.6	6134.5	6048.3	5995.1	5985.0	5929.3	5855.8	5658.3
25°	6230.7	6261.1	6200.3	6091.4	6045.8	6040.7	6048.3	6038.2	6023.0	5855.8
27.5°	6225.6	6258.6	6190.2	6086.3	6061.0	6114.2	6121.8	6169.9	6182.6	6035.7
30°	6268.7	6291.5	6225.6	6116.7	6104.1	6225.6	6228.2	6314.3	6334.5	6187.6
32.5°	6362.4	6387.7	6321.9	6162.3	6144.6	6314.3	6321.9	6435.9	6468.8	6349.7
35°	6582.8	6613.2	6537.2	6289.0	6225.6	6397.9	6420.7	6554.9	6620.8	6522.0
37.5°	7132.4	7043.7	6939.9	6544.8	6410.5	6529.6	6567.6	6724.6	6841.1	6727.1
40°	8497.6	8218.9	7894.8	6980.4	6734.7	6810.7	6841.1	6998.1	7157.7	7046.3
42.5°	10546.6	10217.3	9695.6	7983.4	7223.6	7261.5	7284.3	7421.1	7646.5	7557.9
45°	12372.7	12253.7	11721.8	9695.6	8137.9	7950.5	7978.3	8049.3	8381.0	8348.1
47.5°	13775.9	13707.5	13297.2	11661.0	9682.9	8793.9	8872.4	8905.3	9384.0	9500.5
50°	14854.9	14829.6	14462.3	13408.7	11701.6	10037.5	10065.4	9994.4	10711.2	11000.0
52.5°	15873.1	15959.2	15688.2	15032.2	13857.0	11666.1	11661.0	11326.7	12294.2	12729.9
55°	16792.5	16822.9	16850.7	16688.6	16025.1	13520.1	13472.0	12924.9	14130.5	14581.4
57.5°	17656.2	17668.8	17917.1	18248.9	18281.8	15510.9	15422.2	14766.2	16136.5	16458.2
60°	18236.2	18294.4	18818.7	19740.7	20143.4	17565.0	17516.9	16848.2	18177.9	18327.4
62.5°	17400.4	17755.0	19077.1	20905.8	21901.2	19842.0	19819.2	19191.1	20325.8	20204.2
65°	14084.9	14685.2	17010.3	21693.5	23626.0	22384.9	22417.9	21749.2	22531.8	22136.7
67.5°	9852.6	10485.8	13236.4	21756.8	25553.5	25371.1	25561.1	24512.5	24874.7	23988.2
70°	6813.2	7140.0	8930.7	20394.1	27055.4	29484.4	29479.3	27906.4	27204.9	24831.6
72.5°	4581.8	4751.5	5800.1	16179.6	25951.1	31928.5	31781.6	30500.0	27990.0	23223.3
75°	1932.5	2056.6	2684.8	9092.8	20530.9	29210.8	28813.2	26954.1	24869.6	18286.8
77.5°	612.9	666.1	1058.7	3254.7	11309.0	21956.9	21536.4	16833.0	16668.4	9173.8
80°	291.3	339.4	595.2	1306.9	4450.1	11942.2	11883.9	7636.4	7170.4	2477.1
82.5°	126.6	149.4	329.3	699.1	1990.8	4260.2	4346.3	2598.7	2150.4	939.7
85°	40.5	53.2	152.0	321.7	840.9	1058.7	1046.0	618.0	866.2	511.6
87.5°	0.0	0.0	50.7	73.5	86.1	60.8	68.4	53.2	240.6	141.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955286  
 CATALOG NUMBER: GALN-SB8B-740-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4065.2	0°	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2	4065.2
4115.8	2.5°	4085.4	4044.9	3974.0	3908.1	3849.9	3791.6	3756.1	3705.5	3700.4	3700.4
4181.7	5°	4113.3	4047.4	3920.8	3786.5	3632.0	3485.1	3338.2	3196.4	3150.8	3117.9
4288.0	7.5°	4194.3	4090.5	3890.4	3634.6	3340.8	3019.1	2793.7	2550.5	2456.8	2406.2
4429.9	10°	4310.8	4169.0	3865.1	3416.8	2940.6	2502.4	2180.7	1917.3	1816.0	1773.0
4584.4	12.5°	4440.0	4265.2	3819.5	3145.7	2502.4	1978.1	1664.1	1542.5	1527.3	1527.3
4769.3	15°	4594.5	4381.8	3741.0	2826.6	2044.0	1565.3	1453.8	1458.9	1474.1	1484.2
4949.1	17.5°	4754.1	4505.9	3616.8	2469.5	1638.7	1408.2	1410.8	1418.4	1431.0	1441.2
5144.1	20°	4926.3	4630.0	3452.2	2089.6	1405.7	1362.6	1370.2	1377.8	1388.0	1393.0
5326.5	22.5°	5111.2	4746.5	3257.2	1717.2	1327.2	1324.7	1327.2	1334.8	1347.5	1347.5
5539.2	25°	5308.8	4875.6	3034.3	1446.2	1286.7	1286.7	1291.7	1296.8	1306.9	1306.9
5744.4	27.5°	5511.4	4994.7	2798.7	1304.4	1251.2	1248.7	1248.7	1256.3	1261.3	1263.9
5947.0	30°	5734.3	5134.0	2563.2	1274.0	1223.3	1210.7	1203.1	1208.1	1213.2	1215.7
6159.8	32.5°	5962.2	5268.2	2353.0	1286.7	1195.5	1172.7	1147.4	1142.3	1142.3	1152.4
6380.1	35°	6215.5	5415.1	2190.9	1329.7	1180.3	1117.0	1076.4	1053.6	1056.2	1071.4
6643.5	37.5°	6519.4	5592.4	2071.8	1367.7	1170.2	1053.6	987.8	959.9	942.2	959.9
7005.7	40°	6917.1	5853.3	1985.7	1398.1	1157.5	980.2	891.5	846.0	813.0	823.2
7568.0	42.5°	7502.2	6263.6	1952.8	1400.6	1129.6	894.1	792.8	732.0	683.9	686.4
8414.0	45°	8322.8	6912.0	2122.5	1367.7	1068.8	800.4	688.9	607.9	577.5	569.9
9677.8	47.5°	9447.4	7856.8	2515.1	1299.3	980.2	709.2	587.6	519.2	496.4	483.8
11336.8	50°	10954.4	9070.0	2950.7	1223.3	891.5	623.1	504.0	461.0	445.8	433.1
13304.8	52.5°	12702.0	10300.9	3307.8	1147.4	802.9	547.1	450.8	425.5	412.8	402.7
15204.4	55°	14305.3	11149.4	3287.6	1066.3	716.8	486.3	412.8	397.7	382.5	372.3
16840.6	57.5°	15303.2	11268.4	2710.1	977.7	618.0	438.2	377.4	367.3	349.5	336.9
18256.5	60°	15761.6	10589.7	1899.6	861.2	519.2	392.6	339.4	334.3	311.5	293.8
19596.3	62.5°	15845.2	9328.3	1266.4	716.8	433.1	349.5	301.4	293.8	263.4	233.0
20685.4	65°	15505.8	7525.0	876.4	559.7	369.8	303.9	258.3	243.1	210.2	179.8
20943.8	67.5°	14431.9	5283.4	610.4	402.7	314.1	240.6	205.2	200.1	174.8	149.4
19626.7	70°	12463.9	3011.5	407.8	301.4	248.2	164.6	162.1	167.2	141.8	121.6
16035.2	72.5°	9556.3	1377.8	253.3	220.4	169.7	111.4	129.2	131.7	108.9	91.2
10004.6	75°	5625.4	590.1	159.6	141.8	86.1	73.5	93.7	96.2	73.5	58.3
3657.4	77.5°	1914.8	222.9	101.3	83.6	43.1	40.5	60.8	60.8	40.5	22.8
734.5	80°	435.6	83.6	50.7	32.9	20.3	17.7	20.3	17.7	10.1	2.5
225.4	82.5°	124.1	32.9	20.3	12.7	7.6	7.6	2.5	0.0	0.0	0.0
78.5	85°	35.5	15.2	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
27.9	87.5°	15.2	2.5	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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180°
4065.2
3713.1
3133.1
2413.8
1773.0
1527.3
1484.2
1441.2
1395.6
1352.5
1309.5
1266.4
1220.8
1160.0
1079.0
954.9
818.1
676.3
559.7
476.2
430.6
400.2
367.3
334.3
288.7
217.8
169.7
141.8
111.4
81.0
50.7
17.7
0.0
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