

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: P955706

Luminaire Tested: **GALN-SB8C-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955706  
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-SB8C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

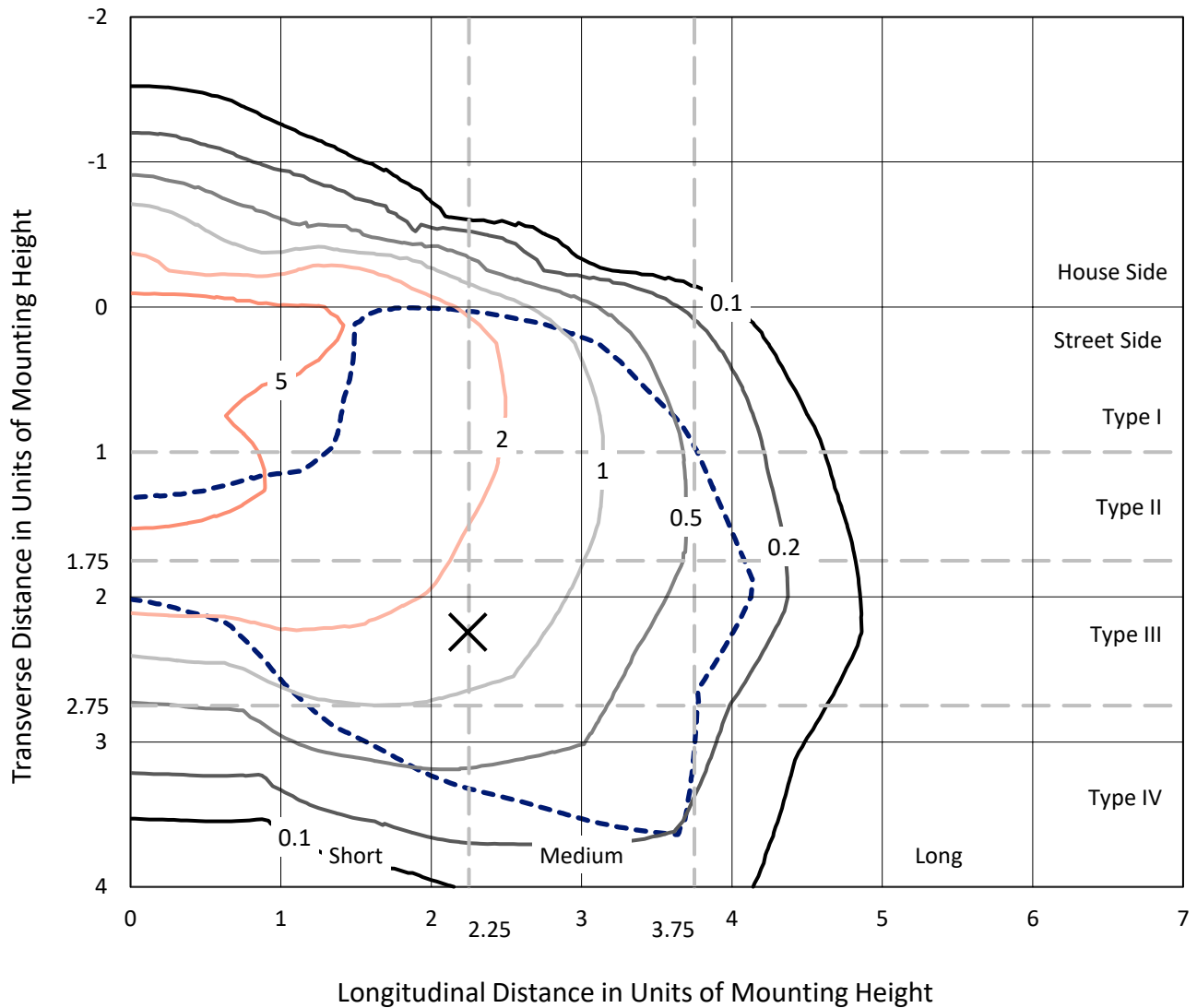
Lumens per Lamp: N/A  
Luminaire Lumens: 40563 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

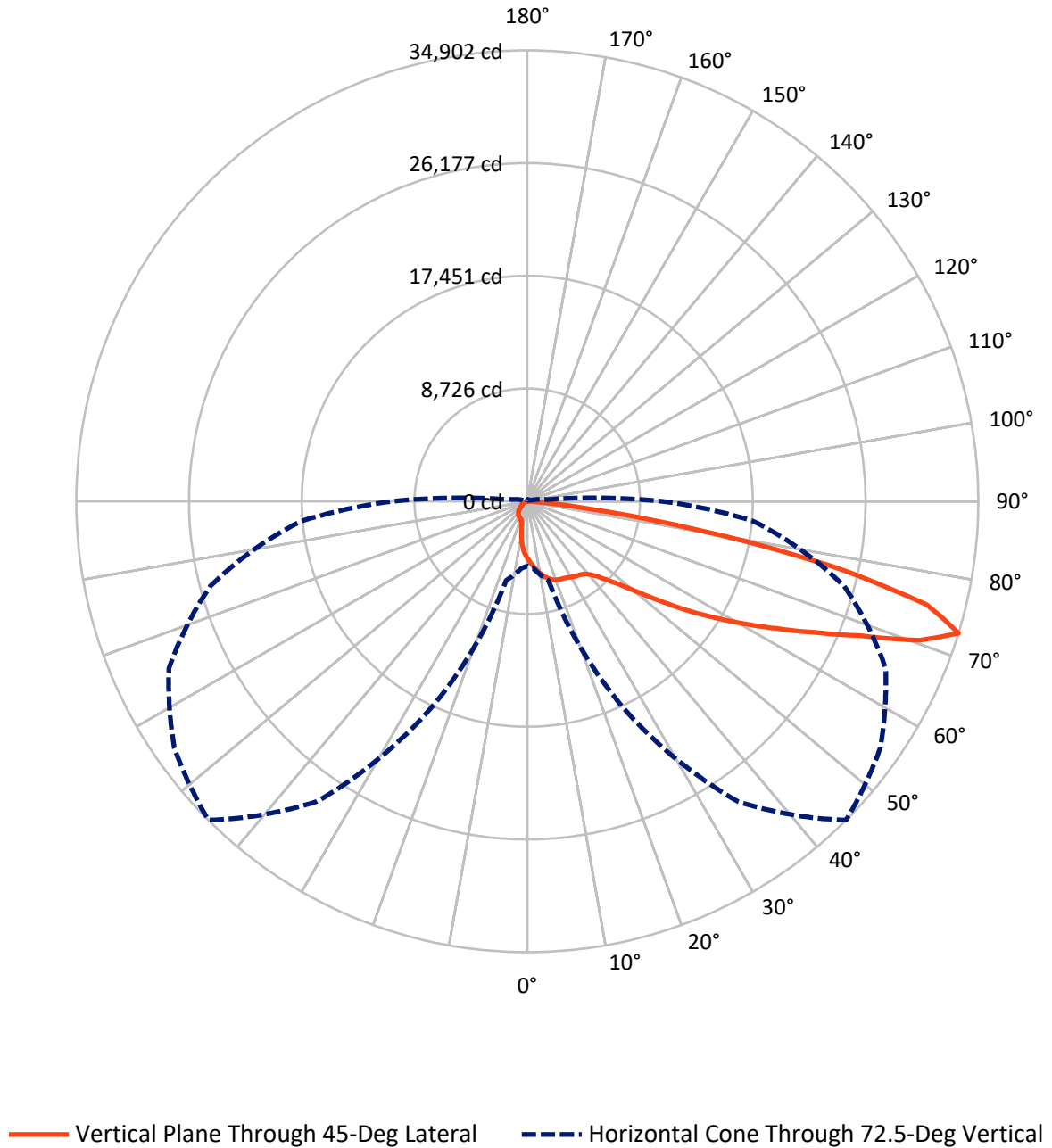
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	4262.0	0.0	4262.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	36300.9	0.0	36300.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	40563.0	0.0	40563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.7	1.0
10°-20°	1223.7	3.0
20°-30°	2009.4	5.0
30°-40°	2849.9	7.0
40°-50°	4710.5	11.6
50°-60°	8461.9	20.9
60°-70°	11749.8	29.0
70°-80°	8522.9	21.0
80°-90°	616.2	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°	40563.0	100.0
0°-180°	40563.0	100.0

**Coefficient of Utilization**



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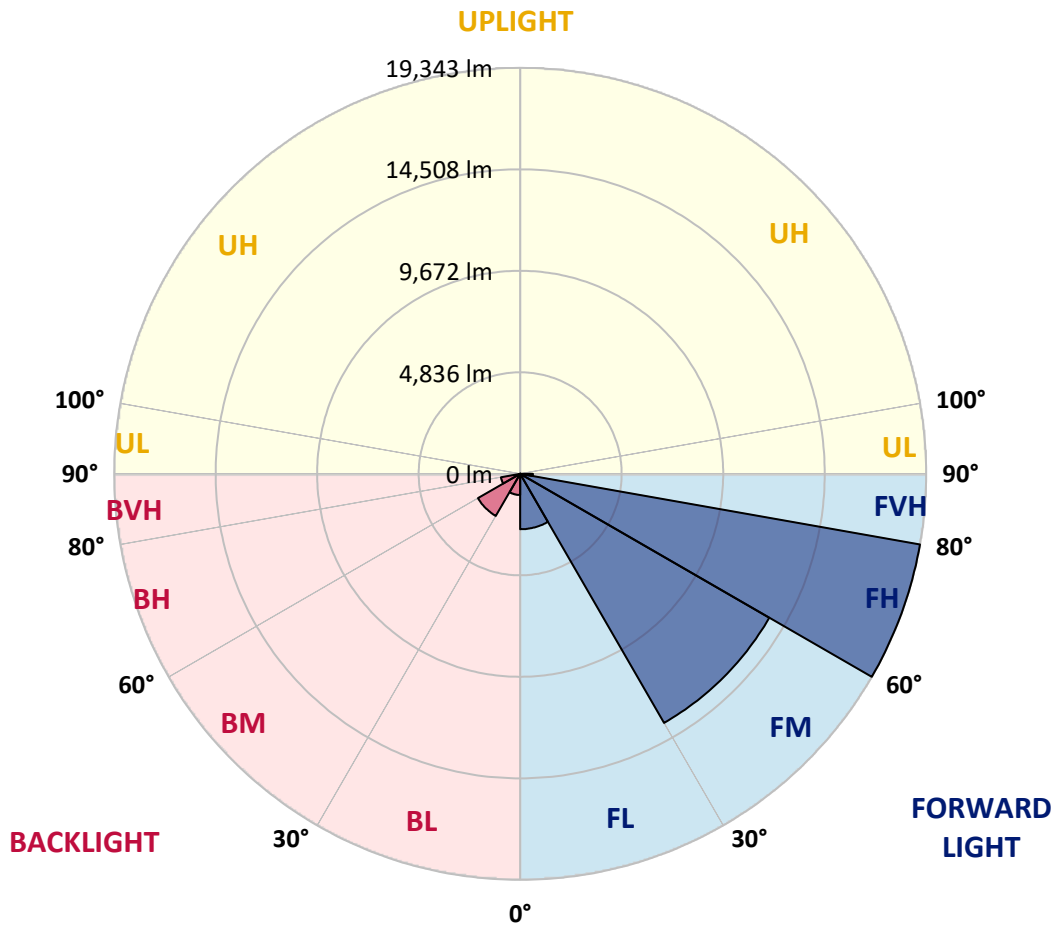
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.3	6.5			
FM (30°-60°)	13704.3	33.8			
FH (60°-80°)	19343.3	47.7			G5
FVH (80°-90°)	611.0	1.5			G4/750
BL (0°-30°)	1009.5	2.5	B3/2500		
BM (30°-60°)	2317.9	5.7	B2/2500		
BH (60°-80°)	929.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8
2.5°	4853.5	4861.8	4856.3	4823.1	4767.7	4737.2	4720.6	4665.3	4629.3	4565.6
5°	5299.3	5332.5	5313.1	5246.7	5141.5	5066.7	5044.6	4931.1	4828.6	4709.6
7.5°	5772.7	5789.4	5753.4	5667.5	5526.3	5399.0	5379.6	5221.8	5058.4	4875.7
10°	6182.5	6201.9	6146.5	6021.9	5861.3	5703.5	5675.8	5501.4	5307.6	5083.3
12.5°	6525.8	6545.2	6473.2	6323.7	6146.5	5983.2	5955.5	5772.7	5559.5	5310.4
15°	6786.1	6822.1	6725.2	6564.6	6373.5	6210.2	6196.3	6016.4	5808.7	5531.9
17.5°	6938.4	6974.4	6883.0	6689.2	6525.8	6387.4	6370.8	6221.3	6027.5	5761.7
20°	6963.3	6996.5	6899.6	6730.7	6595.0	6484.3	6476.0	6368.0	6226.8	5972.1
22.5°	6888.5	6930.1	6841.5	6705.8	6611.7	6553.5	6542.4	6481.5	6401.2	6185.3
25°	6811.0	6844.2	6777.8	6658.7	6608.9	6603.3	6611.7	6600.6	6584.0	6401.2
27.5°	6805.5	6841.5	6766.7	6653.2	6625.5	6683.6	6691.9	6744.6	6758.4	6597.8
30°	6852.5	6877.4	6805.5	6686.4	6672.6	6805.5	6808.2	6902.4	6924.5	6763.9
32.5°	6955.0	6982.7	6910.7	6736.2	6716.9	6902.4	6910.7	7035.3	7071.3	6941.1
35°	7195.9	7229.1	7146.0	6874.7	6805.5	6993.7	7018.7	7165.4	7237.4	7129.4
37.5°	7796.7	7699.8	7586.2	7154.3	7007.6	7137.7	7179.2	7350.9	7478.3	7353.7
40°	9289.0	8984.4	8630.0	7630.5	7362.0	7445.0	7478.3	7649.9	7824.3	7702.5
42.5°	11528.9	11168.9	10598.6	8726.9	7896.3	7937.9	7962.8	8112.3	8358.7	8261.8
45°	13525.1	13395.0	12813.5	10598.6	8895.8	8690.9	8721.4	8798.9	9161.6	9125.6
47.5°	15059.0	14984.2	14535.7	12747.1	10584.7	9612.9	9698.8	9734.7	10258.0	10385.4
50°	16238.4	16210.7	15809.3	14657.5	12791.4	10972.4	11002.8	10925.3	11708.8	12024.5
52.5°	17351.4	17445.6	17149.3	16432.2	15147.6	12752.6	12747.1	12381.6	13439.3	13915.5
55°	18356.5	18389.7	18420.2	18243.0	17517.6	14779.3	14726.7	14128.7	15446.6	15939.4
57.5°	19300.6	19314.4	19585.8	19948.5	19984.5	16955.5	16858.6	16141.5	17639.4	17991.0
60°	19934.6	19998.3	20571.4	21579.2	22019.5	19200.9	19148.3	18417.4	19871.0	20034.3
62.5°	19021.0	19408.6	20853.8	22852.8	23940.9	21690.0	21665.1	20978.4	22218.8	22085.9
65°	15396.7	16052.9	18594.6	23713.9	25826.4	24469.8	24505.8	23774.8	24630.4	24198.4
67.5°	10770.2	11462.4	14469.2	23783.1	27933.4	27734.1	27941.7	26795.5	27191.4	26222.4
70°	7447.8	7805.0	9762.4	22293.6	29575.2	32230.4	32224.9	30505.5	29738.6	27144.3
72.5°	5008.6	5194.1	6340.3	17686.5	28368.1	34902.2	34741.6	33340.7	30596.9	25386.2
75°	2112.5	2248.2	2934.8	9939.6	22443.1	31931.4	31496.7	29464.5	27185.9	19990.0
77.5°	670.0	728.2	1157.3	3557.8	12362.2	24001.9	23542.3	18400.8	18220.8	10028.2
80°	318.4	371.0	650.6	1428.6	4864.6	13054.4	12990.7	8347.6	7838.2	2707.8
82.5°	138.4	163.4	359.9	764.2	2176.2	4657.0	4751.1	2840.7	2350.6	1027.2
85°	44.3	58.1	166.1	351.6	919.2	1157.3	1143.5	675.6	946.9	559.3
87.5°	0.0	0.0	55.4	80.3	94.1	66.4	74.8	58.1	263.0	155.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4443.8	0°	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8	4443.8
4499.1	2.5°	4465.9	4421.6	4344.1	4272.1	4208.4	4144.7	4106.0	4050.6	4045.1	4045.1
4571.1	5°	4496.4	4424.4	4285.9	4139.2	3970.3	3809.7	3649.1	3494.1	3444.3	3408.3
4687.4	7.5°	4585.0	4471.4	4252.7	3973.1	3651.9	3300.3	3053.9	2788.1	2685.6	2630.3
4842.5	10°	4712.3	4557.3	4225.0	3735.0	3214.5	2735.5	2383.9	2095.9	1985.2	1938.1
5011.3	12.5°	4853.5	4662.5	4175.2	3438.7	2735.5	2162.4	1819.0	1686.1	1669.5	1669.5
5213.5	15°	5022.4	4789.9	4089.4	3089.9	2234.3	1711.1	1589.2	1594.8	1611.4	1622.5
5410.0	17.5°	5196.8	4925.5	3953.7	2699.5	1791.3	1539.4	1542.2	1550.5	1564.3	1575.4
5623.2	20°	5385.1	5061.2	3773.7	2284.2	1536.6	1489.6	1497.9	1506.2	1517.2	1522.8
5822.6	22.5°	5587.2	5188.5	3560.5	1877.2	1450.8	1448.0	1450.8	1459.1	1472.9	1472.9
6055.1	25°	5803.2	5329.7	3316.9	1580.9	1406.5	1406.5	1412.0	1417.6	1428.6	1428.6
6279.4	27.5°	6024.7	5459.9	3059.4	1425.9	1367.7	1365.0	1365.0	1373.3	1378.8	1381.6
6500.9	30°	6268.3	5612.2	2801.9	1392.7	1337.3	1323.4	1315.1	1320.7	1326.2	1329.0
6733.5	32.5°	6517.5	5758.9	2572.1	1406.5	1306.8	1281.9	1254.2	1248.7	1248.7	1259.8
6974.4	35°	6794.4	5919.5	2394.9	1453.6	1290.2	1221.0	1176.7	1151.8	1154.5	1171.2
7262.3	37.5°	7126.6	6113.3	2264.8	1495.1	1279.1	1151.8	1079.8	1049.3	1030.0	1049.3
7658.2	40°	7561.3	6398.5	2170.7	1528.3	1265.3	1071.5	974.6	924.7	888.8	899.8
8272.9	42.5°	8200.9	6847.0	2134.7	1531.1	1234.8	977.4	866.6	800.2	747.5	750.3
9197.6	45°	9097.9	7555.8	2320.2	1495.1	1168.4	874.9	753.1	664.5	631.3	623.0
10579.2	47.5°	10327.2	8588.5	2749.3	1420.3	1071.5	775.2	642.3	567.6	542.7	528.8
12392.7	50°	11974.6	9914.7	3225.5	1337.3	974.6	681.1	551.0	503.9	487.3	473.4
14544.0	52.5°	13885.0	11260.3	3615.9	1254.2	877.7	598.0	492.8	465.1	451.3	440.2
16620.5	55°	15637.6	12187.8	3593.8	1165.6	783.5	531.6	451.3	434.7	418.1	407.0
18409.1	57.5°	16728.5	12317.9	2962.5	1068.7	675.6	479.0	412.5	401.5	382.1	368.2
19956.8	60°	17229.6	11575.9	2076.5	941.4	567.6	429.1	371.0	365.5	340.6	321.2
21421.4	62.5°	17321.0	10197.1	1384.3	783.5	473.4	382.1	329.5	321.2	287.9	254.7
22612.0	65°	16950.0	8225.8	958.0	611.9	404.2	332.2	282.4	265.8	229.8	196.6
22894.4	67.5°	15776.1	5775.5	667.3	440.2	343.3	263.0	224.3	218.7	191.0	163.4
21454.7	70°	13624.8	3292.0	445.8	329.5	271.3	180.0	177.2	182.7	155.0	132.9
17528.6	72.5°	10446.3	1506.2	276.9	240.9	185.5	121.8	141.2	144.0	119.1	99.7
10936.4	75°	6149.3	645.1	174.4	155.0	94.1	80.3	102.4	105.2	80.3	63.7
3998.0	77.5°	2093.1	243.6	110.7	91.4	47.1	44.3	66.4	66.4	44.3	24.9
802.9	80°	476.2	91.4	55.4	36.0	22.1	19.4	22.1	19.4	11.1	2.8
246.4	82.5°	135.7	36.0	22.1	13.8	8.3	8.3	2.8	0.0	0.0	0.0
85.8	85°	38.8	16.6	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
30.5	87.5°	16.6	2.8	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>
4443.8
4058.9
3424.9
2638.6
1938.1
1669.5
1622.5
1575.4
1525.6
1478.5
1431.4
1384.3
1334.5
1268.1
1179.5
1043.8
894.3
739.2
611.9
520.5
470.7
437.5
401.5
365.5
315.6
238.1
185.5
155.0
121.8
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