

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: P944018

Luminaire Tested: **GALN-SB8D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

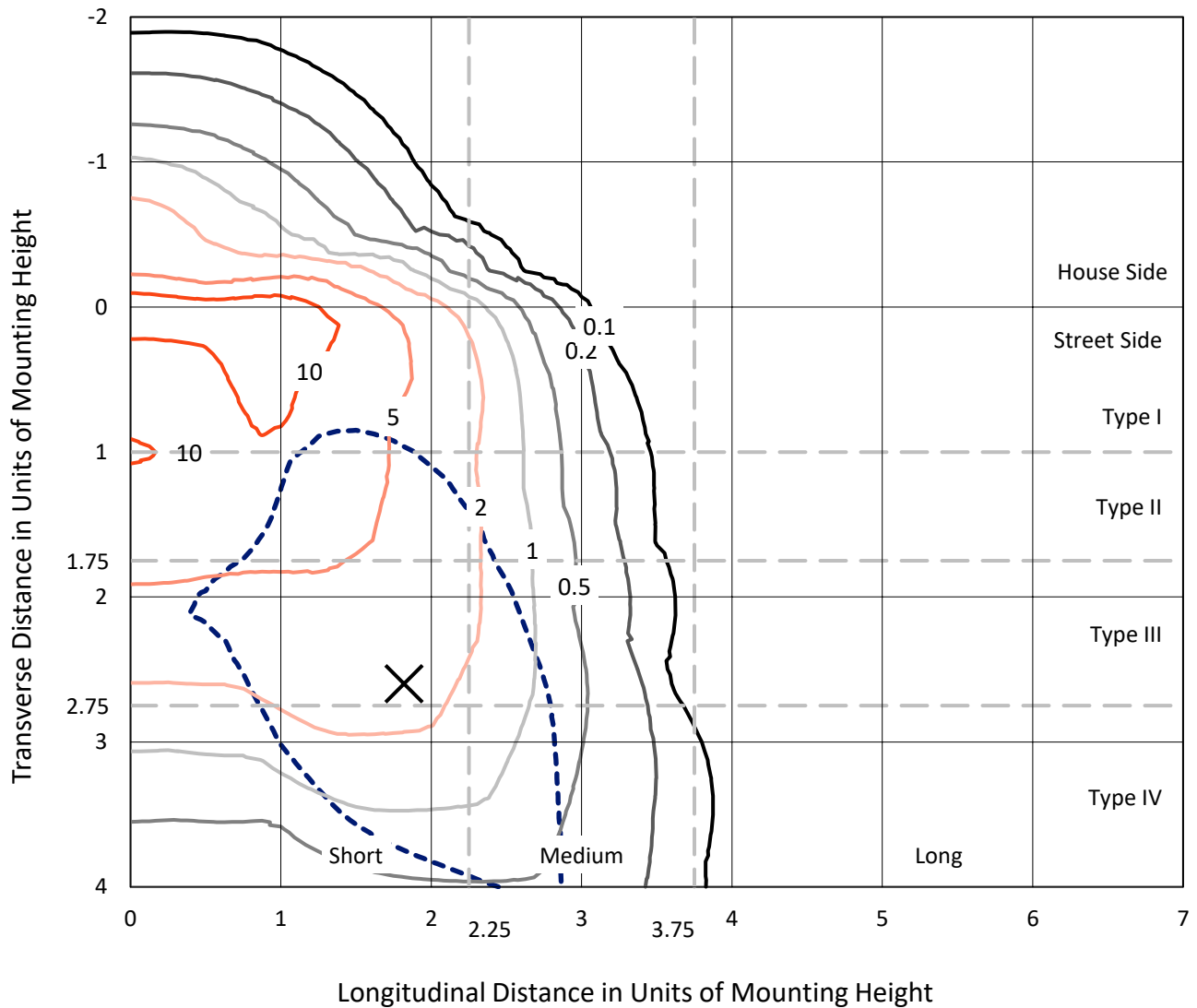
Lumens per Lamp: N/A  
Luminaire Lumens: 62302 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

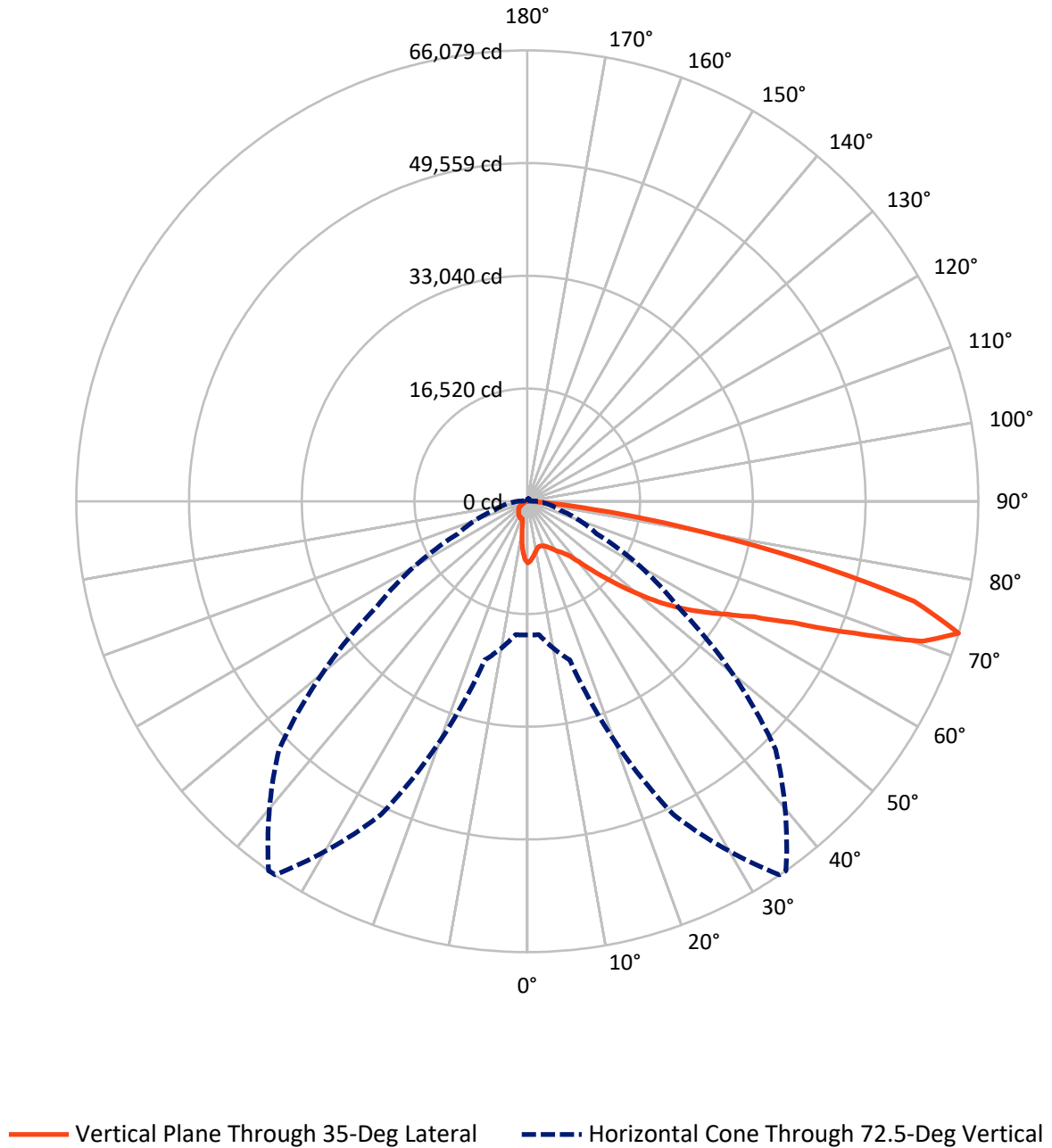
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	7011.8	0.0	7011.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	55290.2	0.0	55290.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	62302.0	0.0	62302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.0	1.2
10°-20°	1735.8	2.8
20°-30°	2819.8	4.5
30°-40°	4704.8	7.6
40°-50°	8901.6	14.3
50°-60°	14144.5	22.7
60°-70°	17497.8	28.1
70°-80°	10876.7	17.5
80°-90°	879.0	1.4
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°	62302.0	100.0
0°-180°	62302.0	100.0

**Coefficient of Utilization**



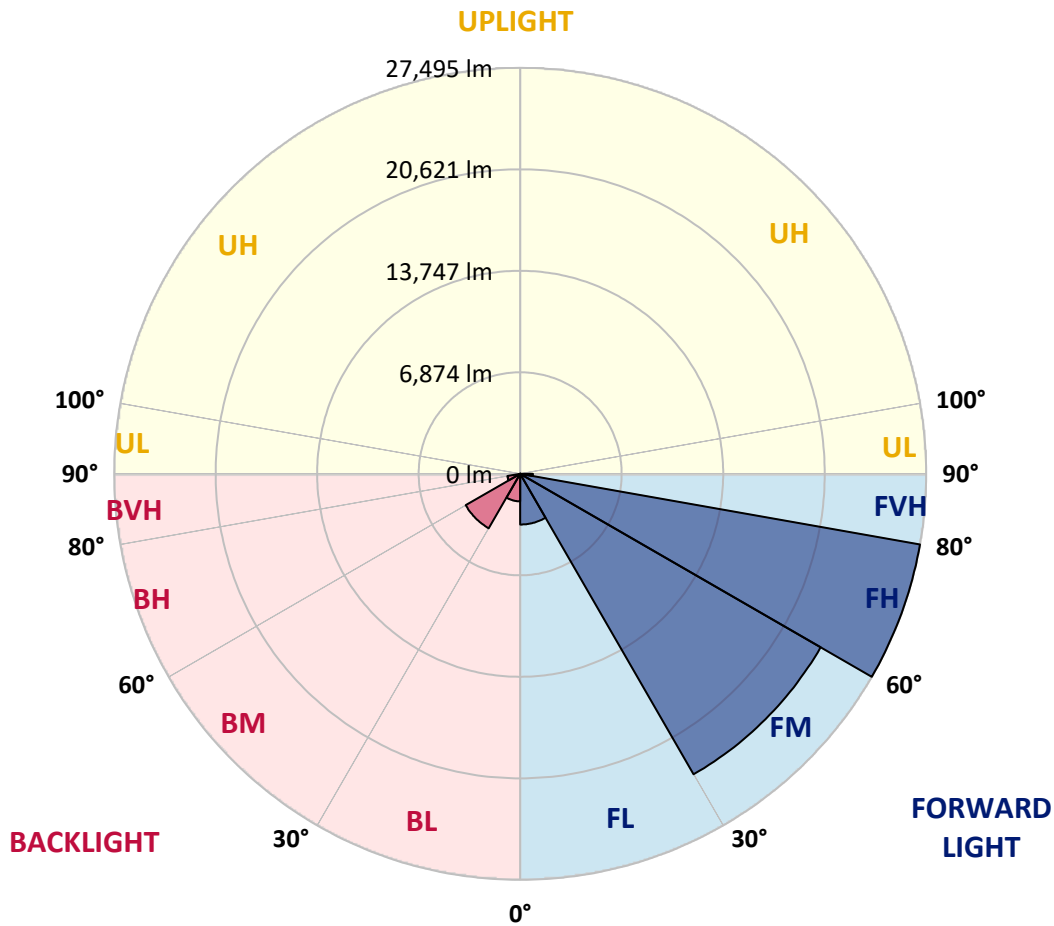
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3434.4	5.5			
FM	(30°-60°)	23494.1	37.7			
FH	(60°-80°)	27494.6	44.1			G5
FVH	(80°-90°)	867.1	1.4			G5
BL	(0°-30°)	1863.2	3.0	B3/2500		
BM	(30°-60°)	4256.8	6.8	B3/5000		
BH	(60°-80°)	879.9	1.4	B2/1000		G2/1000
BVH	(80°-90°)	12.0	0.0			G1/100
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°	34°	35°	45°	55°	65°	75°
0°	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6
2.5°	8627.9	8701.0	8714.7	8737.5	8737.5	8764.9	8810.5	8874.4	8979.4	9034.2
5°	7952.3	8007.1	8075.6	8130.3	8235.3	8249.0	8427.1	8600.5	8842.5	9025.1
7.5°	7272.1	7336.0	7427.3	7559.7	7696.7	7737.7	8007.1	8299.2	8682.7	9025.1
10°	6792.8	6797.3	6879.5	7011.9	7231.0	7281.2	7609.9	8025.3	8504.7	8970.3
12.5°	6523.4	6555.4	6591.9	6692.3	6902.3	6934.3	7285.8	7774.3	8326.6	8938.3
15°	6523.4	6546.3	6569.1	6619.3	6788.2	6815.6	7126.0	7614.5	8235.3	8952.0
17.5°	6591.9	6628.4	6610.2	6669.5	6847.6	6865.8	7139.7	7568.8	8230.8	9038.8
20°	6756.3	6783.6	6747.1	6783.6	6961.7	6998.2	7281.2	7655.6	8308.4	9189.4
22.5°	7016.5	7030.2	6943.4	6970.8	7153.4	7199.1	7527.8	7902.1	8495.5	9431.4
25°	7345.1	7372.5	7240.2	7272.1	7445.6	7500.4	7879.3	8271.9	8792.3	9764.6
27.5°	7724.0	7737.7	7623.6	7619.1	7842.7	7920.3	8303.8	8728.4	9189.4	10184.6
30°	8157.7	8198.8	8089.3	8071.0	8354.0	8417.9	8796.8	9289.9	9773.8	10814.6
32.5°	8500.1	8532.1	8468.1	8513.8	8801.4	8851.6	9394.9	10084.2	10691.3	11709.3
35°	8993.1	9011.4	8865.3	8947.5	9276.2	9404.0	10212.0	11198.0	11846.3	12832.3
37.5°	10778.1	10778.1	10157.2	9750.9	10065.9	10180.0	11330.4	12599.5	13270.6	14338.8
40°	13247.7	13206.7	12298.2	11467.4	11426.3	11650.0	12923.6	14366.2	15110.3	16146.5
42.5°	15881.8	15817.9	14580.7	13759.0	13622.1	13699.7	14763.3	16543.7	17301.5	18351.5
45°	18219.1	18200.8	17068.7	15963.9	15717.4	15963.9	17059.6	19091.0	19634.2	20739.0
47.5°	20177.5	20177.5	19351.2	18629.9	18502.1	18648.2	20168.3	21916.8	21866.5	23281.7
50°	22432.6	22414.3	21629.2	21318.7	21451.1	21656.5	23747.3	24893.2	24176.5	25778.8
52.5°	24012.1	24121.7	23852.3	23802.1	24477.7	24833.8	27381.1	27805.7	26244.4	28148.0
55°	25262.9	25390.8	25701.2	26052.7	27353.7	27819.4	30900.8	30567.5	27974.6	30202.3
57.5°	27034.2	26851.6	27330.9	28024.8	30129.3	30690.8	34310.8	33174.1	29366.9	31868.5
60°	29184.3	29211.7	29293.9	30170.3	32900.2	33621.5	37670.7	35639.3	30261.6	32891.1
62.5°	31768.1	31809.2	31978.1	33324.8	36620.7	37300.9	41249.7	37657.0	30672.5	32603.5
65°	31590.1	31763.5	33648.9	38255.0	42276.8	42947.9	45426.7	39072.2	30051.7	29974.1
67.5°	28778.0	29061.0	32215.5	44143.9	50804.3	51553.0	50475.6	39350.6	27372.0	23309.1
70°	25089.5	25189.9	28983.4	49439.4	60678.5	61436.3	54995.0	36287.5	20770.9	13001.2
72.5°	19593.2	19616.0	24066.9	50667.4	66037.9	66079.0	51448.0	26938.3	11170.7	4994.2
75°	13996.4	13859.5	16119.2	41089.9	58099.3	58564.9	38570.0	12636.0	4268.3	2360.1
77.5°	7504.9	7655.6	9120.9	24368.2	40135.8	40930.1	21044.8	3642.9	2173.0	1606.9
80°	2319.0	2446.9	3738.8	11157.0	22733.9	23213.2	7801.7	1620.6	1515.6	1145.8
82.5°	730.4	757.8	1743.8	4688.3	9435.9	9655.1	2259.7	917.6	1036.3	757.8
85°	210.0	214.6	776.1	1748.4	2332.7	2378.4	634.5	356.1	593.5	470.2
87.5°	22.8	73.0	292.2	292.2	205.4	200.9	68.5	77.6	168.9	59.3
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°
9029.6	0°	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6	9029.6
9070.7	2.5°	9047.9	9052.5	8993.1	8892.7	8783.1	8691.8	8577.7	8486.4	8422.5	8404.2
9152.9	5°	9111.8	9079.9	8911.0	8605.1	8239.9	7924.9	7573.4	7294.9	7112.3	7034.7
9239.6	7.5°	9207.7	9116.4	8746.6	8144.0	7445.6	6824.7	6194.8	5706.3	5395.9	5240.7
9321.8	10°	9289.9	9107.3	8472.7	7477.5	6409.3	5468.9	4619.8	4030.9	3702.2	3547.0
9417.7	12.5°	9367.5	9102.7	8116.6	6687.8	5240.7	4090.3	3300.5	3008.4	2917.1	2885.1
9572.9	15°	9513.5	9116.4	7669.3	5783.9	4076.6	3090.5	2802.9	2798.4	2816.6	2807.5
9810.3	17.5°	9714.4	9130.1	7162.5	4825.2	3145.3	2725.3	2711.6	2752.7	2780.1	2766.4
10107.0	20°	9974.6	9184.9	6623.9	3875.7	2702.5	2634.0	2666.0	2702.5	2725.3	2702.5
10504.2	22.5°	10339.8	9280.7	6035.0	3113.4	2561.0	2579.2	2606.6	2647.7	2670.5	2638.6
11010.9	25°	10787.2	9431.4	5455.2	2707.1	2492.5	2515.3	2556.4	2602.1	2629.5	2597.5
11650.0	27.5°	11366.9	9673.3	4921.1	2615.8	2424.0	2437.7	2497.1	2565.6	2602.1	2561.0
12558.4	30°	12206.9	10070.5	4460.0	2656.9	2383.0	2351.0	2433.2	2529.0	2570.1	2533.6
13795.6	32.5°	13320.8	10632.0	4177.0	2720.8	2364.7	2250.6	2328.2	2451.4	2519.9	2497.1
15411.6	35°	14781.6	11485.6	4067.5	2793.8	2351.0	2145.6	2200.3	2332.7	2451.4	2474.3
17447.6	37.5°	16552.8	12672.6	4099.4	2825.8	2309.9	2058.8	2086.2	2200.3	2355.6	2428.6
19739.2	40°	18566.0	14055.8	4282.0	2793.8	2264.3	1985.8	1990.4	2077.1	2214.0	2323.6
22204.4	42.5°	20643.1	15671.8	4619.8	2675.1	2223.2	1921.9	1908.2	1967.5	2058.8	2136.4
24664.9	45°	22619.8	17333.5	4953.1	2510.8	2173.0	1858.0	1826.0	1848.8	1867.1	1899.1
27061.6	47.5°	24345.4	18502.1	4857.2	2360.1	2104.5	1784.9	1730.2	1721.0	1666.2	1661.7
29202.6	50°	25536.8	18757.7	4314.0	2209.5	2004.1	1702.8	1616.0	1561.2	1465.4	1419.7
30804.9	52.5°	25915.7	17748.9	3524.2	2058.8	1839.7	1593.2	1469.9	1383.2	1264.5	1223.4
31727.0	55°	25413.6	15772.2	2816.6	1876.2	1611.5	1447.1	1310.2	1196.0	1100.2	1050.0
31827.5	57.5°	24185.6	13256.9	2227.7	1661.7	1369.5	1282.8	1145.8	1031.7	949.5	899.3
30713.6	60°	22149.6	10527.0	1762.1	1406.0	1168.7	1104.7	963.2	890.2	817.1	757.8
27837.6	62.5°	19059.0	7514.1	1383.2	1113.9	976.9	903.9	821.7	766.9	680.2	598.0
22665.4	65°	14872.9	4597.0	1068.2	817.1	785.2	748.7	698.5	648.2	543.2	461.1
14786.2	67.5°	9381.2	2177.5	762.4	616.3	620.8	602.6	579.8	538.7	461.1	388.0
6623.9	70°	4131.4	1054.5	502.2	470.2	461.1	461.1	479.3	465.6	392.6	324.1
2300.8	72.5°	1406.0	566.1	374.3	356.1	333.2	328.7	401.7	388.0	315.0	251.1
1145.8	75°	735.0	378.9	273.9	255.6	200.9	241.9	319.6	301.3	223.7	164.3
757.8	77.5°	479.3	269.3	187.2	164.3	114.1	159.8	237.4	210.0	132.4	82.2
497.6	80°	301.3	178.0	109.6	77.6	54.8	86.7	127.8	91.3	50.2	18.3
292.2	82.5°	159.8	91.3	41.1	27.4	22.8	27.4	32.0	22.8	9.1	0.0
150.6	85°	63.9	32.0	13.7	9.1	4.6	0.0	9.1	4.6	0.0	0.0
27.4	87.5°	22.8	4.6	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>
9029.6
8436.2
7062.1
5263.5
3551.6
2876.0
2802.9
2761.8
2697.9
2634.0
2592.9
2561.0
2529.0
2497.1
2474.3
2446.9
2360.1
2168.4
1917.3
1657.1
1424.3
1218.9
1050.0
890.2
744.1
584.3
447.4
378.9
310.4
237.4
150.6
73.0
13.7
0.0
0.0
0.0
0.0

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