

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: P944104

Luminaire Tested: **GALN-SB8D-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

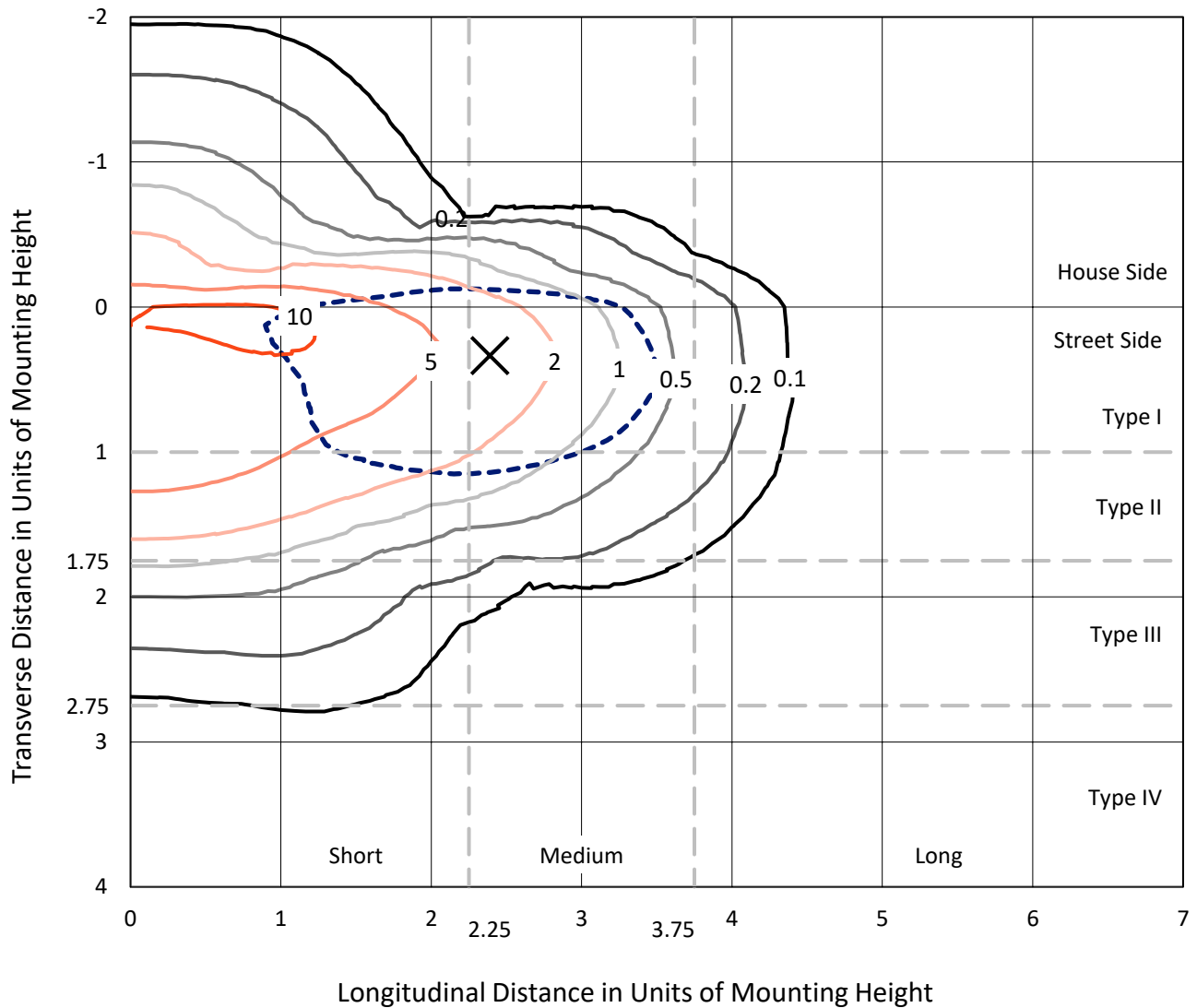
Lumens per Lamp: N/A  
Luminaire Lumens: 36575 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

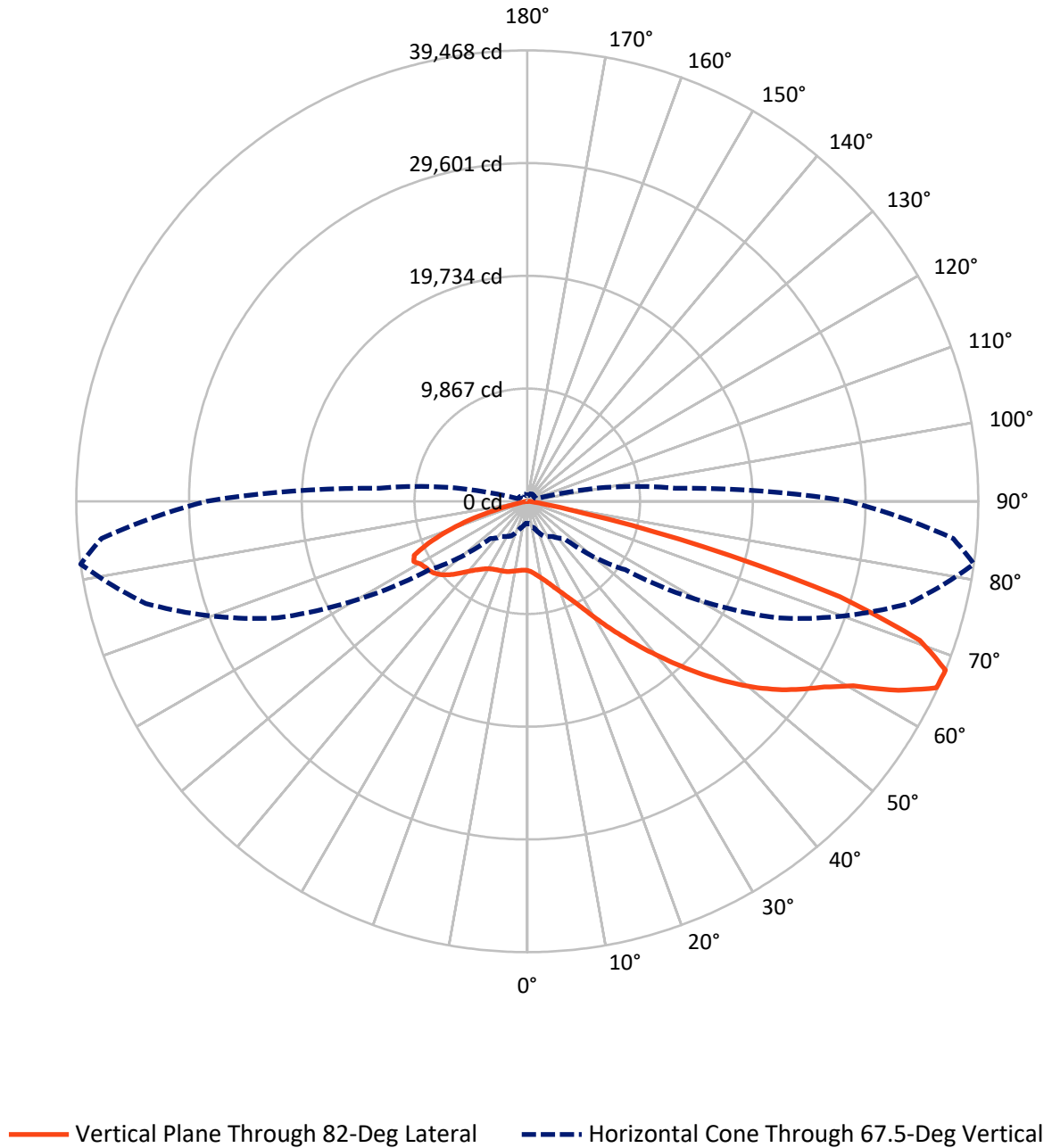
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6625.3	0.0	6625.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29949.8	0.0	29949.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	36575.0	0.0	36575.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.8	1.5
10°-20°	1402.8	3.8
20°-30°	2246.9	6.1
30°-40°	3973.1	10.9
40°-50°	6961.3	19.0
50°-60°	9284.4	25.4
60°-70°	8643.3	23.6
70°-80°	3317.3	9.1
80°-90°	206.0	0.6
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°	36575.0	100.0
0°-180°	36575.0	100.0



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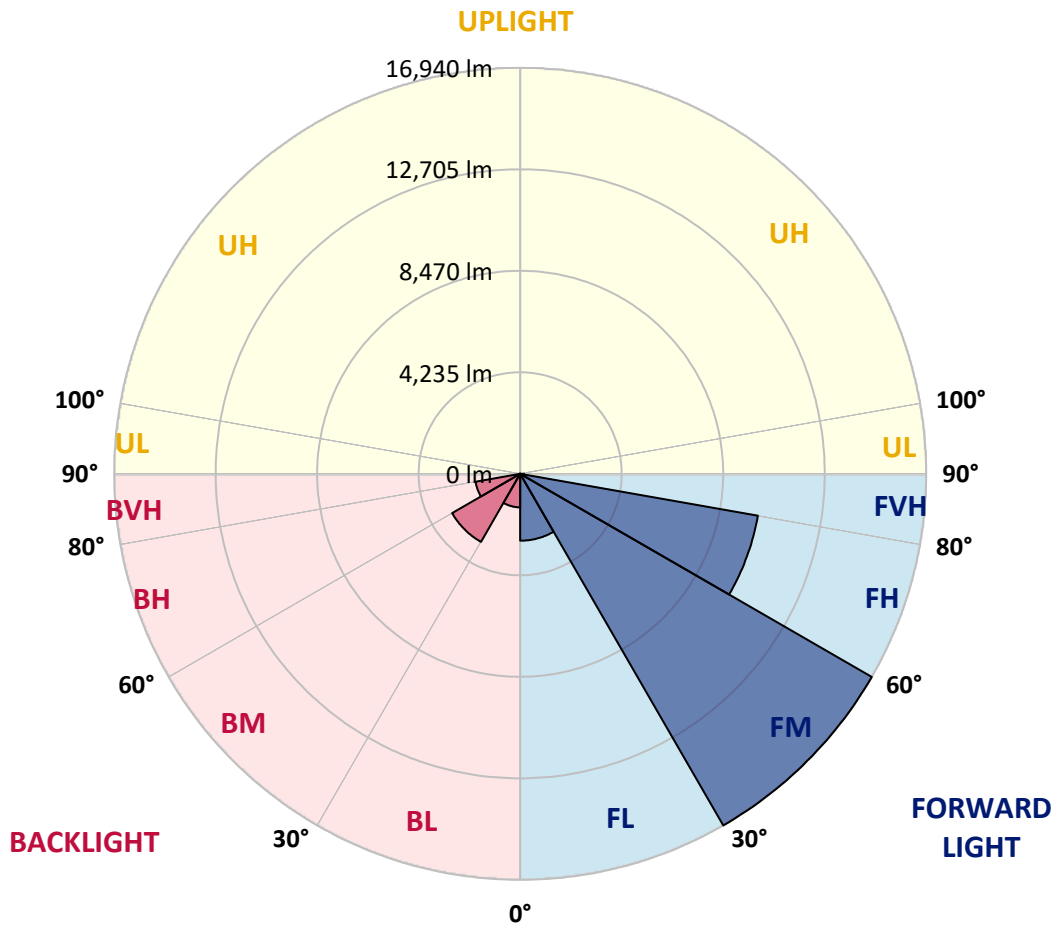
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2790.3	7.6			
FM (30°-60°)	16940.0	46.3			
FH (60°-80°)	10069.6	27.5			G4/12000
FVH (80°-90°)	149.8	0.4			G2/225
BL (0°-30°)	1399.2	3.8	B3/2500		
BM (30°-60°)	3278.8	9.0	B3/5000		
BH (60°-80°)	1891.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	56.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2
2.5°	6404.2	6441.1	6420.0	6409.5	6391.0	6364.7	6343.6	6277.8	6209.3	6164.6
5°	6533.2	6570.1	6567.5	6578.0	6591.2	6599.1	6593.8	6520.1	6422.6	6346.3
7.5°	6422.6	6464.8	6499.0	6551.7	6643.8	6741.3	6788.7	6772.9	6672.8	6567.5
10°	6109.3	6154.0	6235.7	6359.4	6554.3	6765.0	6941.4	7023.0	6959.8	6844.0
12.5°	5535.2	5580.0	5740.6	6009.2	6335.7	6701.8	7038.8	7257.4	7273.2	7157.3
15°	4890.1	4934.8	5106.0	5443.0	5940.7	6528.0	7091.5	7504.9	7644.5	7544.4
17.5°	4489.8	4529.3	4658.3	4929.6	5448.3	6180.4	7073.1	7768.3	8086.9	8007.9
20°	4368.7	4402.9	4463.5	4653.1	5084.9	5819.6	6951.9	8015.8	8563.5	8518.7
22.5°	4497.7	4529.3	4547.7	4632.0	4903.2	5582.6	6799.2	8268.6	9116.5	9121.8
25°	4795.3	4826.9	4805.8	4858.5	4977.0	5508.9	6741.3	8566.1	9811.7	9869.6
27.5°	5285.0	5287.7	5237.6	5235.0	5253.4	5619.5	6801.8	8884.8	10688.6	10796.6
30°	6267.3	6227.8	6035.5	5827.5	5732.7	5951.3	6970.4	9261.3	11723.5	11915.7
32.5°	7781.4	7723.5	7370.6	6872.9	6372.6	6485.8	7273.2	9690.6	12850.5	13198.1
35°	9424.6	9408.8	9040.1	8300.2	7425.9	7246.9	7765.6	10254.1	14080.3	14633.3
37.5°	10951.9	10944.0	10733.4	9861.7	8797.9	8308.1	8555.6	10991.4	15396.9	16197.5
40°	12347.6	12371.3	12160.6	11381.2	10309.4	9669.5	9630.0	11902.5	16861.1	17901.2
42.5°	13553.6	13580.0	13366.7	12790.0	11802.5	11175.8	10949.3	13019.1	18291.0	19731.4
45°	14372.6	14535.9	14504.3	14043.4	13335.1	12684.6	12534.5	14420.0	19921.0	21672.1
47.5°	14604.3	14754.4	14991.4	15054.6	14622.8	13982.9	14161.9	16107.9	21569.4	23615.5
50°	14032.9	14172.5	14664.9	15320.6	15620.8	15423.3	15744.5	17917.0	23257.4	25553.6
52.5°	12905.8	13048.0	13669.5	14707.0	15931.5	16553.0	17332.4	19699.8	24892.7	27389.0
55°	11275.8	11425.9	12223.8	13398.3	15339.0	17019.1	18657.0	21479.9	26391.0	29040.1
57.5°	9058.6	9169.2	9998.7	11641.9	13848.6	16555.6	19633.9	23423.3	27802.5	30662.2
60°	5903.9	6001.3	6965.1	8797.9	11378.5	15007.2	19828.8	25590.5	29677.4	32771.5
62.5°	3926.3	3992.1	4563.5	5909.1	8013.2	12034.2	18688.6	27320.6	32426.5	36442.3
65°	2693.9	2759.7	3331.1	4268.6	5177.1	7960.5	15410.1	27091.5	34917.7	39357.4
67.5°	1922.3	1977.6	2462.1	3346.9	3747.2	4624.1	10446.3	24163.2	34559.5	39468.0
70°	1377.2	1408.8	1809.1	2607.0	2978.3	2778.1	5809.1	18480.5	30259.3	36445.0
72.5°	963.8	974.3	1256.1	1985.5	2398.9	2027.6	2765.0	12321.2	22886.1	28605.6
75°	653.1	666.2	845.3	1456.2	1924.9	1548.4	1464.1	6607.0	13435.1	15834.1
77.5°	400.3	405.5	545.1	995.4	1440.4	1179.7	942.7	2799.2	5198.1	5103.3
80°	226.5	226.5	347.6	618.8	982.2	761.0	661.0	1190.3	1645.8	1445.7
82.5°	126.4	129.0	252.8	384.5	650.4	450.3	363.4	550.4	711.0	629.4
85°	52.7	57.9	155.4	181.7	310.7	223.8	147.5	231.7	263.3	234.4
87.5°	5.3	7.9	47.4	34.2	36.9	44.8	21.1	44.8	36.9	36.9
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°
6059.2	0°	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2	6059.2
6148.8	2.5°	6098.7	6059.2	5959.2	5843.3	5690.6	5616.8	5516.8	5448.3	5390.4	5395.6
6301.5	5°	6217.2	6117.2	5893.3	5614.2	5266.6	5019.1	4755.8	4574.1	4426.6	4395.0
6512.2	7.5°	6380.5	6222.5	5830.1	5327.2	4740.0	4294.9	3897.3	3641.9	3460.2	3402.2
6767.6	10°	6591.2	6362.1	5748.5	4966.4	4121.1	3555.0	3128.4	2928.2	2804.5	2762.3
7067.8	12.5°	6836.1	6522.7	5640.5	4526.7	3483.9	2938.8	2667.5	2567.5	2528.0	2514.8
7436.5	15°	7144.2	6722.8	5477.3	4005.3	2944.0	2562.2	2446.3	2433.2	2438.4	2433.2
7878.9	17.5°	7510.2	6941.4	5211.3	3468.1	2580.6	2370.0	2327.8	2338.4	2351.5	2348.9
8373.9	20°	7910.5	7157.3	4871.6	2991.4	2333.1	2233.0	2209.3	2219.9	2230.4	2225.1
8945.3	22.5°	8366.0	7389.1	4495.1	2620.1	2167.2	2106.6	2080.3	2082.9	2082.9	2072.4
9669.5	25°	8911.1	7644.5	4100.1	2356.8	2040.8	1993.4	1961.8	1951.3	1935.5	1903.9
10549.0	27.5°	9561.5	7915.7	3720.9	2172.5	1940.7	1896.0	1859.1	1832.8	1793.3	1740.6
11605.0	30°	10293.6	8244.9	3399.6	2056.6	1861.7	1817.0	1774.8	1735.3	1677.4	1611.6
12818.9	32.5°	11154.7	8597.7	3165.2	1980.2	1790.6	1743.2	1693.2	1645.8	1582.6	1516.8
14183.0	35°	12181.7	9024.3	3028.3	1927.6	1735.3	1672.2	1616.9	1564.2	1516.8	1458.9
15665.5	37.5°	13295.6	9477.3	2986.2	1901.2	1698.5	1601.1	1537.9	1501.0	1495.7	1461.5
17269.2	40°	14514.8	10014.5	3017.8	1885.4	1659.0	1532.6	1464.1	1456.2	1469.4	1408.8
18983.5	42.5°	15805.1	10651.7	3070.4	1867.0	1603.7	1464.1	1398.3	1398.3	1387.8	1303.5
20795.2	45°	17200.8	11386.4	3123.1	1822.2	1537.9	1395.7	1345.6	1327.2	1282.4	1200.8
22617.5	47.5°	18606.9	12134.3	3162.6	1740.6	1458.9	1337.7	1293.0	1250.8	1185.0	1111.3
24405.5	50°	19942.0	12805.8	3120.5	1619.5	1369.3	1282.4	1235.0	1177.1	1106.0	1056.0
26098.7	52.5°	21134.9	13387.7	2941.4	1477.3	1274.5	1224.5	1182.4	1121.8	1063.9	1011.2
27626.0	55°	22172.4	13859.1	2625.4	1343.0	1190.3	1174.5	1132.3	1056.0	977.0	932.2
29140.2	57.5°	23167.8	14217.2	2230.4	1232.4	1113.9	1119.2	1056.0	987.5	913.8	866.4
31181.0	60°	24492.4	14696.5	1830.1	1129.7	1032.3	1048.1	979.6	929.6	837.4	776.8
34680.7	62.5°	26609.6	15441.7	1453.6	1003.3	937.5	942.7	913.8	853.2	742.6	671.5
37274.5	65°	28289.6	15167.8	1145.5	866.4	829.5	837.4	837.4	771.6	653.1	571.4
37414.0	67.5°	28100.0	12987.5	913.8	732.1	726.8	732.1	750.5	695.2	579.3	513.5
34564.8	70°	25885.4	10330.5	732.1	608.3	632.0	618.8	671.5	634.6	521.4	455.6
26796.5	72.5°	21121.8	7441.7	558.3	503.0	484.5	505.6	605.7	571.4	434.5	360.8
14193.5	75°	12342.3	3971.0	416.1	397.6	350.2	421.3	537.2	487.2	331.8	266.0
4350.2	77.5°	4018.4	1385.1	305.5	292.3	260.7	339.7	458.2	410.8	271.2	210.7
1274.5	80°	1077.0	418.7	208.0	192.2	168.5	252.8	363.4	326.5	194.9	136.9
547.7	82.5°	431.9	176.4	121.1	108.0	92.2	173.8	287.0	263.3	144.8	86.9
171.2	85°	139.6	57.9	44.8	34.2	42.1	108.0	171.2	179.1	102.7	44.8
26.3	87.5°	18.4	7.9	7.9	10.5	7.9	18.4	52.7	50.0	29.0	5.3
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°
6059.2
5343.0
4323.9
3344.3
2730.7
2506.9
2430.5
2343.6
2222.5
2067.1
1898.6
1735.3
1606.3
1519.4
1453.6
1458.9
1411.5
1303.5
1198.2
1108.6
1048.1
1005.9
926.9
861.1
768.9
666.2
563.5
503.0
447.7
352.9
258.1
202.8
134.3
86.9
34.2
0.0
0.0

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