

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: P956478

Luminaire Tested: **GALN-SB9A-840-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-840-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

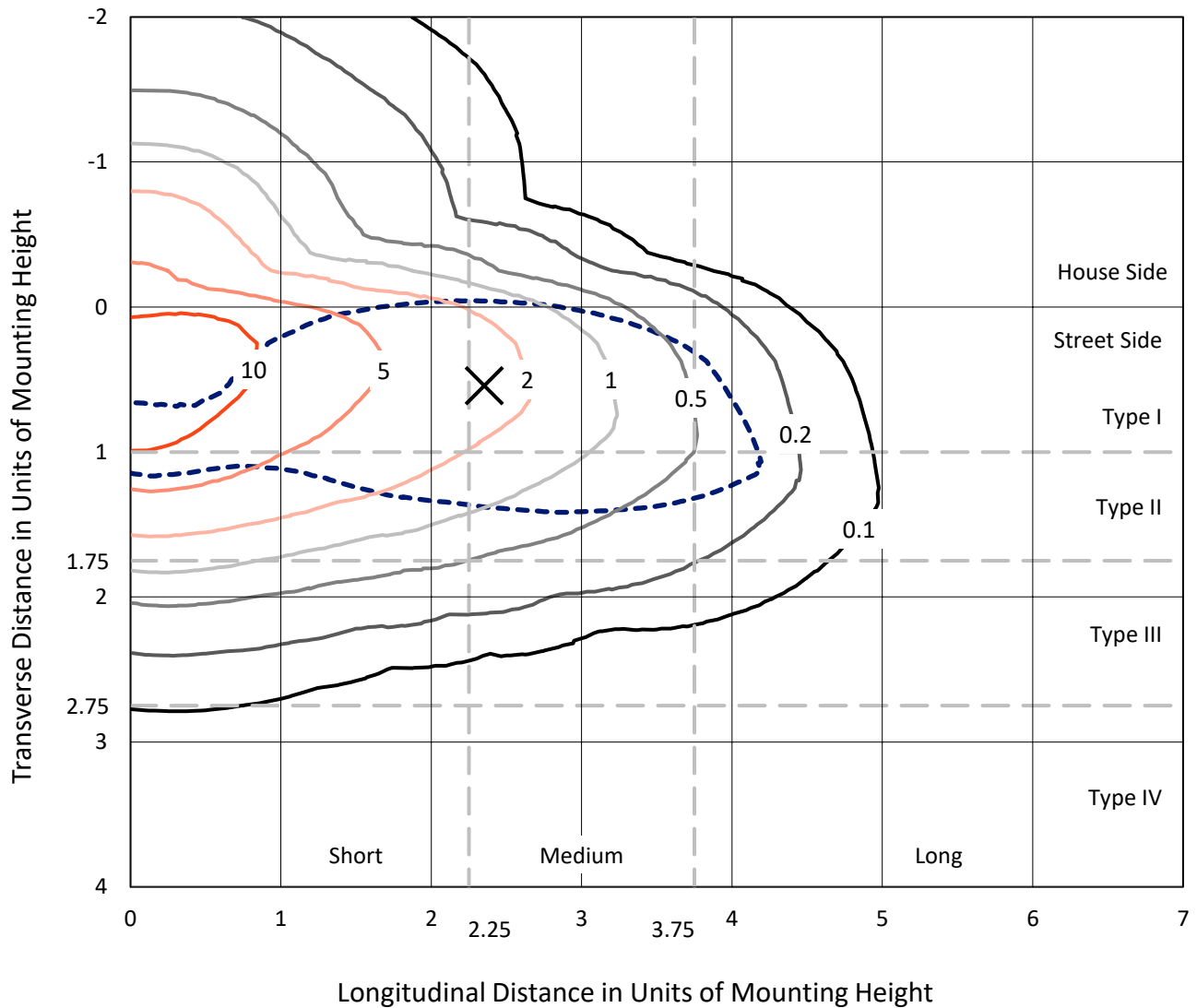
Lumens per Lamp: N/A  
Luminaire Lumens: 39807 lumens  
Efficiency: N/A  
Efficacy: 155.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

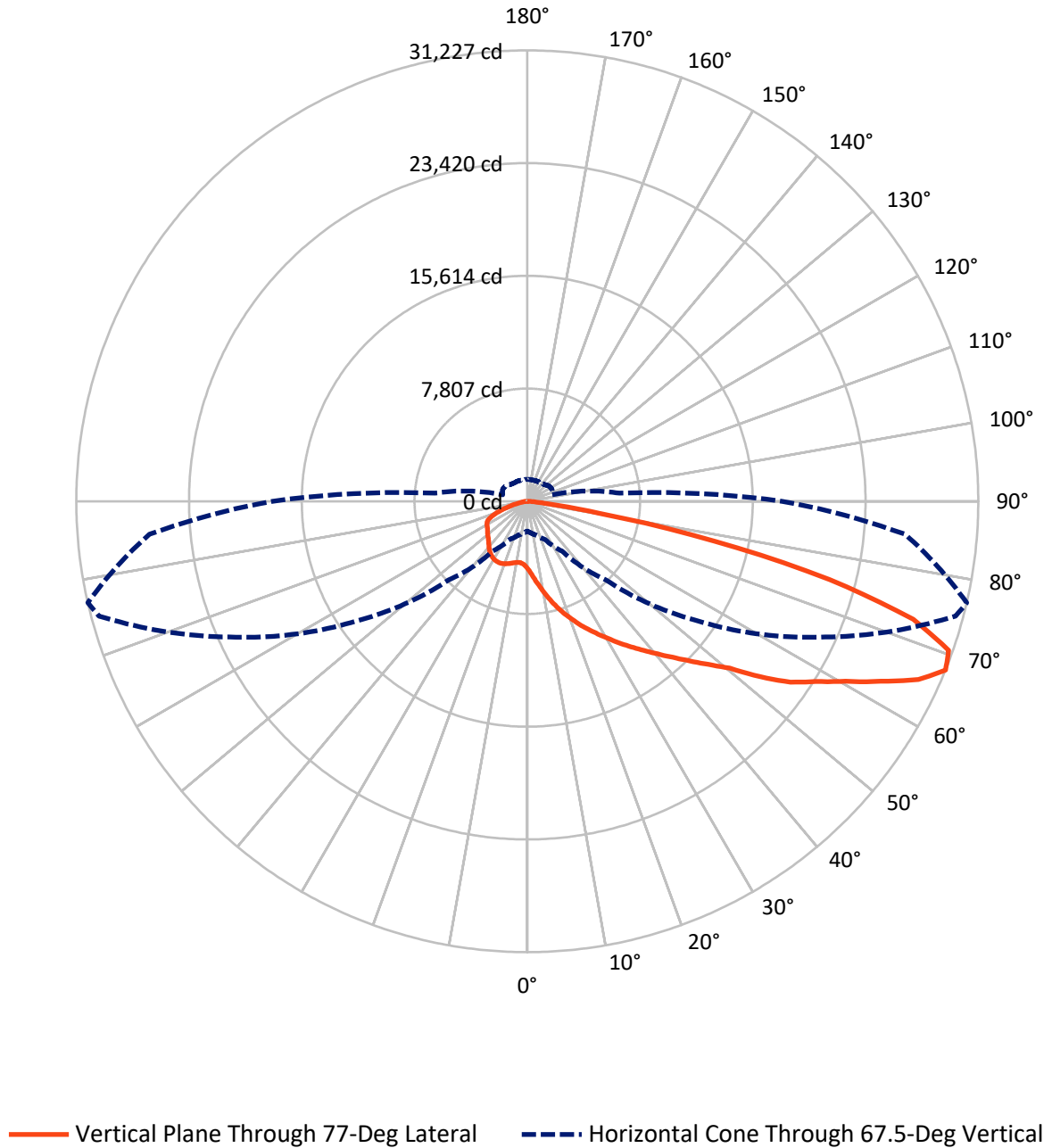
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	7529.9	0.0	7529.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	32277.1	0.0	32277.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	39807.0	0.0	39807.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.6	1.3
10°-20°	1798.5	4.5
20°-30°	3395.8	8.5
30°-40°	5470.6	13.7
40°-50°	7482.8	18.8
50°-60°	8440.7	21.2
60°-70°	7878.3	19.8
70°-80°	4318.6	10.8
80°-90°	520.9	1.3
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°	39807.0	100.0
0°-180°	39807.0	100.0



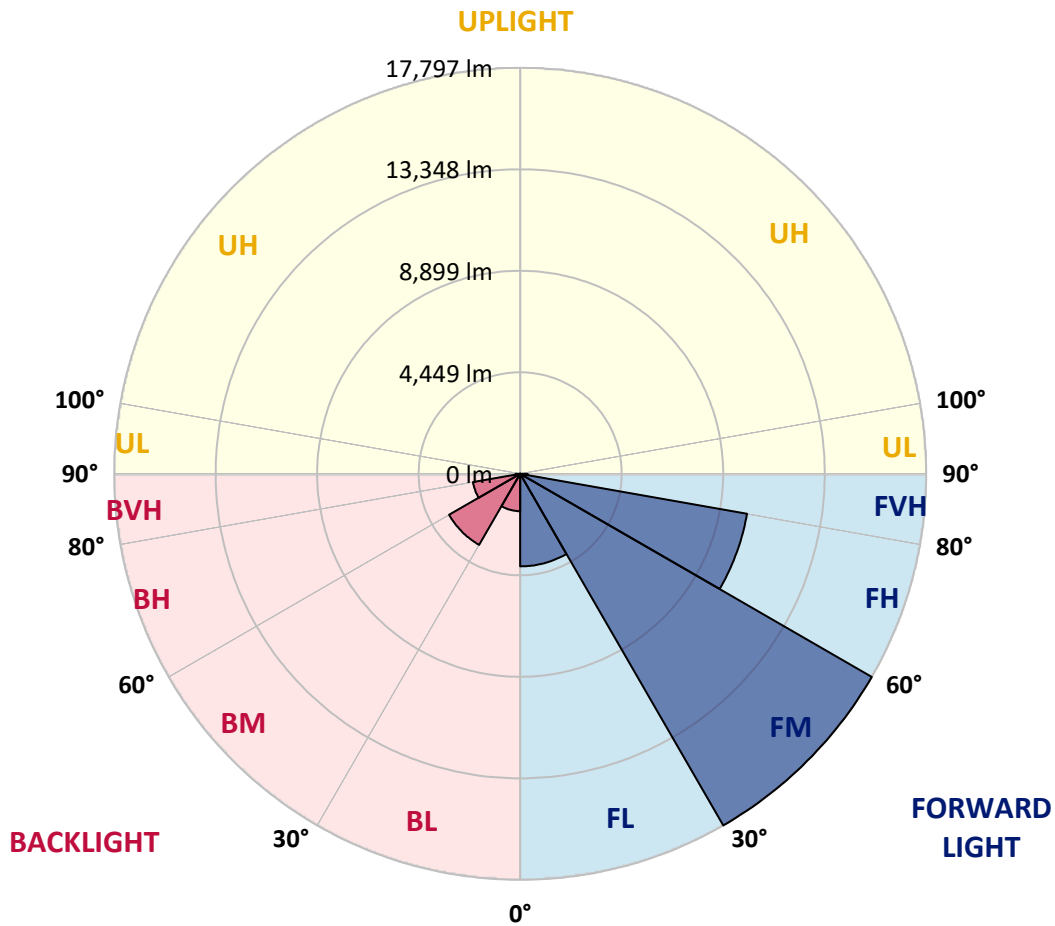
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4057.8	10.2			
FM (30°-60°)	17797.3	44.7			
FH (60°-80°)	10096.2	25.4			G4/12000
FVH (80°-90°)	325.8	0.8			G3/500
BL (0°-30°)	1637.2	4.1	B3/2500		
BM (30°-60°)	3596.8	9.0	B3/5000		
BH (60°-80°)	2100.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	195.1	0.5			G2/225
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°	77°
0°	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6
2.5°	5848.0	5889.1	5837.7	5837.7	5665.1	5574.7	5402.1	5270.6	5034.3	4993.2
5°	6912.4	6963.8	6891.9	6861.0	6657.6	6470.6	6180.9	5895.3	5474.0	5430.9
7.5°	7736.4	7802.1	7738.4	7705.6	7524.7	7315.1	6976.1	6577.5	5983.6	5899.4
10°	8408.3	8418.6	8398.0	8410.4	8268.6	8096.0	7748.7	7284.3	6542.5	6427.5
12.5°	8788.4	8835.7	8876.8	8950.8	8926.1	8819.3	8506.9	7952.1	7134.3	6986.4
15°	8967.2	9049.4	9141.9	9312.4	9450.1	9476.8	9238.5	8669.3	7736.4	7557.6
17.5°	9030.9	9109.0	9254.9	9501.5	9797.4	9996.7	9889.8	9365.9	8332.3	8126.8
20°	9353.5	9376.1	9464.5	9698.7	10019.3	10350.1	10430.2	10035.7	8922.0	8689.8
22.5°	10043.9	9998.7	10023.4	10130.2	10360.4	10680.9	10863.8	10627.5	9528.2	9261.1
25°	11184.4	11052.9	10921.3	10798.1	10915.2	11096.0	11303.5	11219.3	10163.1	9824.1
27.5°	12624.8	12464.5	12174.8	11770.0	11628.2	11691.9	11784.4	11767.9	10750.8	10407.6
30°	14042.6	13855.6	13510.4	12924.8	12550.8	12382.3	12312.5	12265.2	11389.8	11024.1
32.5°	15174.8	15026.9	14687.8	14032.3	13489.9	13202.2	12970.0	12801.5	12057.7	11691.9
35°	16165.2	16027.6	15639.2	14924.1	14334.4	14028.2	13724.1	13364.5	12752.2	12382.3
37.5°	17069.4	16931.7	16399.5	15655.6	15061.8	14850.2	14578.9	13968.6	13448.8	13099.5
40°	17640.6	17609.8	17112.5	16270.0	15653.6	15548.8	15458.4	14669.3	14221.4	13896.7
42.5°	17786.5	17854.3	17459.8	16767.3	16179.6	16095.4	16307.0	15462.5	15088.5	14778.2
45°	17435.1	17630.3	17371.4	16900.9	16553.6	16508.4	17059.1	16329.6	16048.1	15764.6
47.5°	16545.4	16876.2	16769.4	16703.6	16654.3	16849.5	17720.7	17250.2	17135.1	16888.5
50°	14749.5	15376.2	15563.2	15978.3	16455.0	17114.6	18322.8	18255.0	18405.0	18156.4
52.5°	11644.6	12507.7	13592.6	14632.3	15842.6	17026.2	18984.4	19697.5	20330.4	20194.7
55°	9612.4	10000.8	10835.0	12741.9	14655.0	16654.3	19282.4	20862.6	22241.3	22120.1
57.5°	8050.8	8398.0	8911.7	10504.2	12859.0	15809.8	19467.3	21573.5	23550.3	23537.9
60°	6376.1	6743.9	7269.9	8398.0	10761.1	14350.8	19426.2	22383.1	25220.8	25323.6
62.5°	4485.7	4890.5	5474.0	6526.1	8617.9	12460.4	18587.9	22968.7	27187.3	27466.7
65°	2948.7	3215.8	3655.5	4563.7	6421.3	10029.6	16987.2	23044.8	29291.4	29764.0
67.5°	2067.1	2169.9	2428.8	2921.9	4232.9	7691.2	14437.1	22257.8	30694.8	31227.0
70°	1613.0	1664.4	1795.9	1993.2	2658.9	5172.0	11063.1	20211.2	30394.8	30949.6
72.5°	1393.2	1442.5	1491.8	1516.5	1783.6	3193.2	7493.9	16898.8	27569.5	27945.5
75°	1263.7	1276.0	1317.1	1308.9	1360.3	2071.3	4325.4	12312.5	21752.3	21622.8
77.5°	1062.3	1078.8	1146.6	1136.3	1208.2	1415.8	2245.9	7946.0	14102.2	13222.7
80°	900.0	908.2	982.2	969.9	1050.0	1025.4	1146.6	4050.0	5981.6	5067.2
82.5°	312.3	386.3	750.0	772.6	801.4	620.6	661.7	1652.1	1826.7	1399.3
85°	152.1	162.3	382.2	542.5	540.4	312.3	322.6	589.7	575.3	452.1
87.5°	24.7	30.8	45.2	211.6	168.5	82.2	111.0	115.1	119.2	102.7
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°
4670.6	0°	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6	4670.6
4837.0	2.5°	4722.0	4619.2	4403.5	4204.2	4048.0	3898.0	3813.7	3741.8	3700.7	3692.5
5063.1	5°	4849.4	4637.7	4245.3	3914.4	3698.7	3538.4	3454.1	3400.7	3374.0	3357.6
5367.2	7.5°	5032.2	4722.0	4163.1	3787.0	3561.0	3445.9	3402.8	3394.6	3392.5	3394.6
5735.0	10°	5285.0	4859.6	4154.8	3756.2	3567.2	3503.5	3501.4	3503.5	3511.7	3513.7
6135.7	12.5°	5558.3	5001.4	4187.7	3782.9	3645.2	3610.3	3604.1	3602.1	3608.3	3612.4
6540.5	15°	5856.2	5188.4	4243.2	3840.5	3731.5	3694.6	3688.4	3676.1	3674.0	3672.0
6965.8	17.5°	6162.4	5373.3	4304.8	3902.1	3787.0	3735.7	3713.1	3684.3	3661.7	3655.5
7405.6	20°	6472.7	5556.2	4348.0	3932.9	3791.1	3719.2	3674.0	3624.7	3585.7	3563.1
7849.4	22.5°	6803.5	5747.3	4374.7	3924.7	3754.1	3655.5	3573.3	3515.8	3456.2	3417.2
8297.3	25°	7126.1	5913.8	4372.6	3881.5	3682.2	3556.9	3452.1	3378.1	3295.9	3254.8
8759.7	27.5°	7436.4	6063.8	4321.3	3805.5	3579.5	3439.8	3314.4	3226.1	3145.9	3106.9
9226.1	30°	7756.9	6189.1	4241.1	3694.6	3458.3	3304.1	3166.5	3090.4	3018.5	2981.5
9719.3	32.5°	8075.4	6304.2	4128.1	3556.9	3318.5	3170.6	3035.0	2965.1	2921.9	2921.9
10249.4	35°	8412.4	6384.3	3978.1	3396.6	3170.6	3028.8	2921.9	2880.9	2876.7	2852.1
10810.4	37.5°	8767.9	6435.7	3795.2	3232.2	3024.7	2891.1	2858.2	2808.9	2767.8	2714.4
11426.8	40°	9141.9	6487.1	3575.4	3061.7	2870.6	2796.6	2782.2	2716.5	2599.3	2467.8
12125.5	42.5°	9596.0	6522.0	3347.3	2891.1	2708.2	2683.6	2704.1	2591.1	2404.1	2305.5
12967.9	45°	10122.0	6579.5	3137.7	2722.6	2541.8	2541.8	2628.1	2480.2	2326.1	2264.4
13929.6	47.5°	10804.2	6713.1	2942.5	2537.7	2387.7	2428.8	2459.6	2346.6	2260.3	2184.3
15100.8	50°	11790.5	7033.6	2741.1	2350.7	2270.6	2352.8	2309.6	2243.9	2143.2	2081.5
16962.5	52.5°	13015.2	7222.7	2562.4	2182.2	2169.9	2252.1	2190.4	2128.8	2052.8	1970.6
18374.2	55°	13849.5	7257.6	2412.4	2058.9	2102.1	2093.9	2071.3	2015.8	1974.7	1865.8
19767.3	57.5°	14782.3	7327.5	2289.1	1985.0	2058.9	1968.5	1960.3	1913.0	1859.6	1785.6
21466.7	60°	15898.1	7436.4	2182.2	1956.2	2021.9	1886.3	1845.2	1826.7	1773.3	1736.3
23511.2	62.5°	17114.6	7535.0	2073.3	1960.3	1978.8	1806.2	1744.5	1738.4	1705.5	1693.2
25430.4	65°	17944.7	7265.8	1937.7	1956.2	1911.0	1724.0	1645.9	1643.9	1617.1	1613.0
26262.6	67.5°	17655.0	6413.1	1754.8	1898.7	1841.1	1641.8	1555.5	1547.3	1512.3	1514.4
25393.4	70°	16204.3	5196.6	1502.1	1756.9	1754.8	1567.8	1461.0	1434.3	1387.0	1395.2
22079.0	72.5°	13483.7	3850.7	1163.0	1520.6	1617.1	1500.0	1352.1	1308.9	1249.3	1257.5
16298.8	75°	9737.8	2617.8	846.6	1156.9	1407.5	1419.9	1245.2	1171.2	1099.3	1111.7
9072.0	77.5°	4982.9	1483.6	622.6	797.3	1105.5	1290.4	1148.6	1050.0	1033.6	1148.6
2615.8	80°	1625.4	743.8	431.5	558.9	725.4	1056.2	1006.9	893.8	889.7	916.4
548.6	82.5°	484.9	314.4	277.4	367.8	400.7	809.6	869.2	676.0	581.5	612.3
182.9	85°	166.4	152.1	158.2	182.9	191.1	474.7	608.2	447.9	423.3	466.4
41.1	87.5°	39.0	53.4	45.2	41.1	41.1	115.1	236.3	187.0	258.9	172.6
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°  
4670.6  
3692.5  
3355.5  
3400.7  
3515.8  
3614.4  
3669.9  
3661.7  
3571.3  
3419.2  
3254.8  
3104.8  
2979.5  
2924.0  
2845.9  
2706.2  
2449.3  
2307.6  
2274.7  
2182.2  
2075.4  
1954.1  
1867.8  
1761.0  
1746.6  
1693.2  
1611.0  
*1514.4*  
1403.4  
1255.5  
1115.8  
1132.2  
787.0  
632.9  
460.3  
166.4  
0.0

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