

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: P944134

Luminaire Tested: **GALN-SB8D-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944134  
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-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

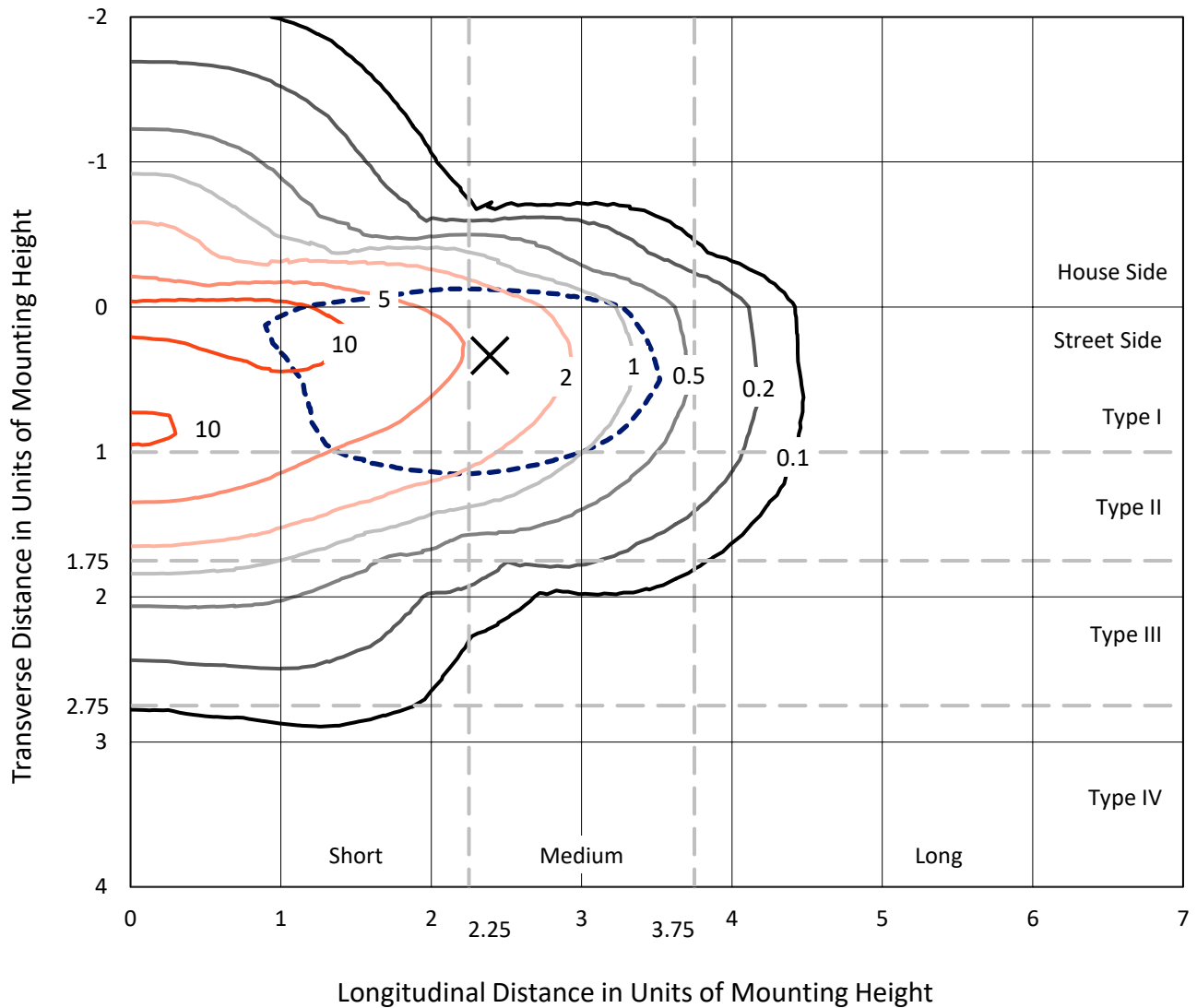
Lumens per Lamp: N/A  
Luminaire Lumens: 43541 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

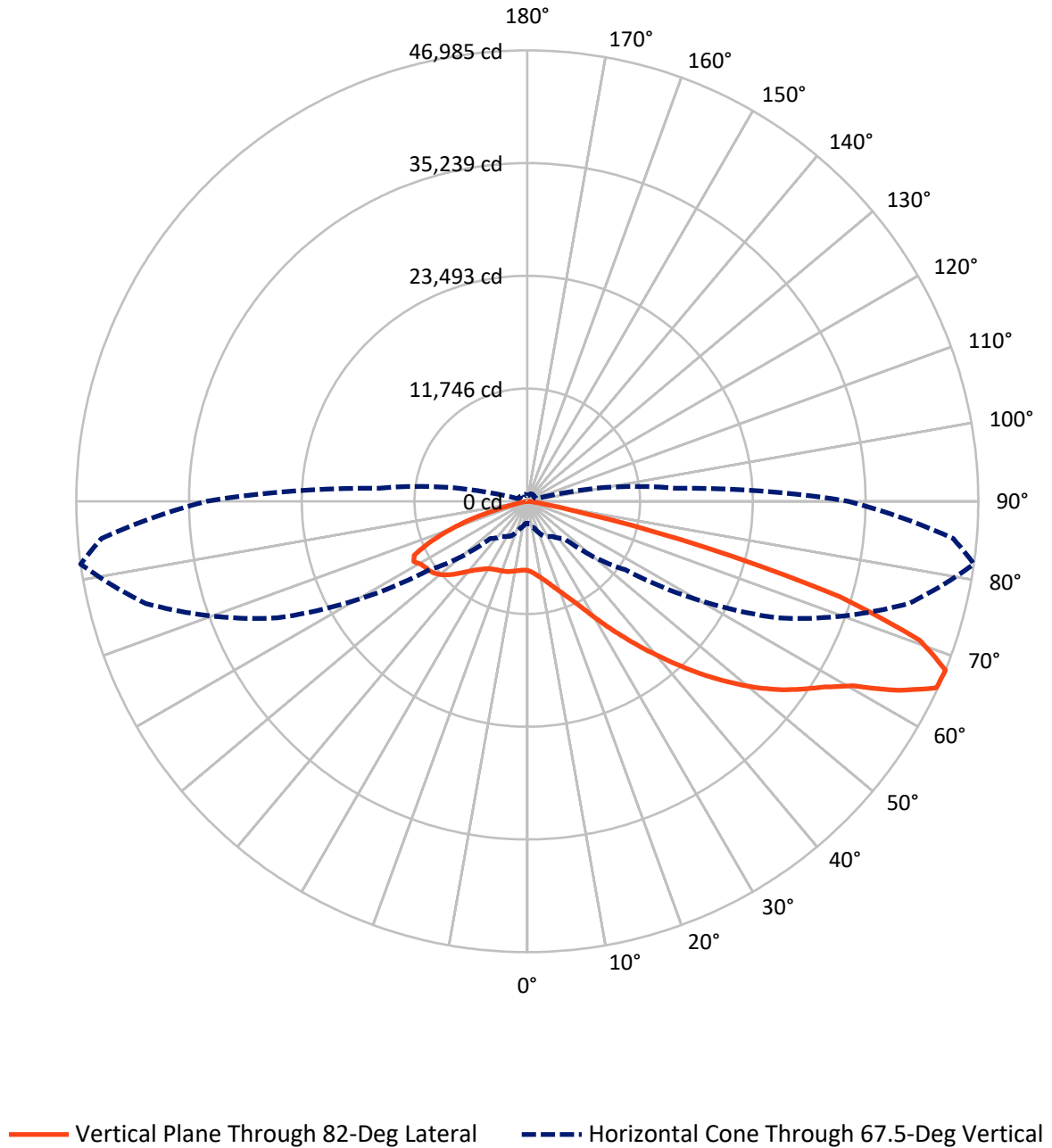
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	7887.1	0.0	7887.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	35653.9	0.0	35653.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	43541.0	0.0	43541.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.7	1.5
10°-20°	1670.0	3.8
20°-30°	2674.8	6.1
30°-40°	4729.8	10.9
40°-50°	8287.1	19.0
50°-60°	11052.7	25.4
60°-70°	10289.5	23.6
70°-80°	3949.1	9.1
80°-90°	245.3	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°	43541.0	100.0
0°-180°	43541.0	100.0

**Coefficient of Utilization**



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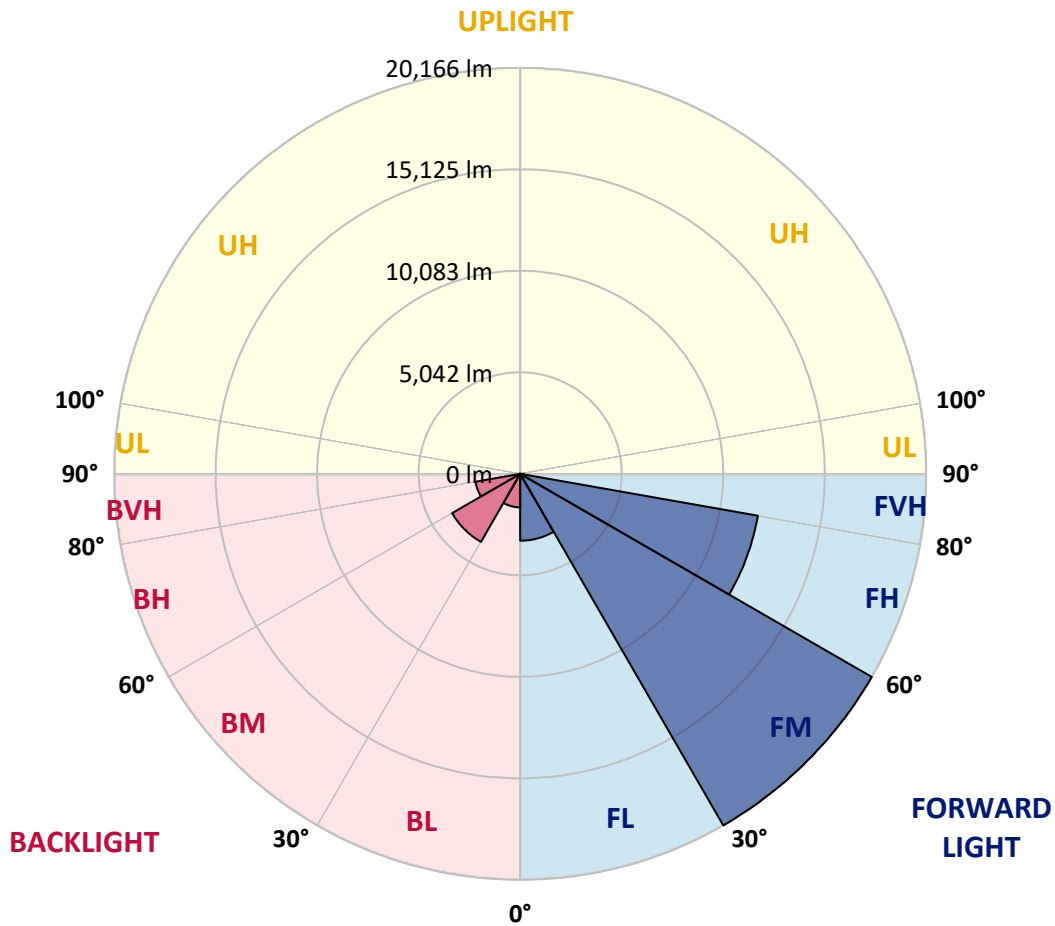
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3321.7	7.6			
FM (30°-60°)	20166.4	46.3			
FH (60°-80°)	11987.5	27.5			G4/12000
FVH (80°-90°)	178.3	0.4			G2/225
BL (0°-30°)	1665.7	3.8	B3/2500		
BM (30°-60°)	3903.3	9.0	B3/5000		
BH (60°-80°)	2251.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	67.0	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°	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3
2.5°	7623.9	7667.8	7642.7	7630.2	7608.3	7576.9	7551.8	7473.5	7392.0	7338.7
5°	7777.5	7821.4	7818.3	7830.8	7846.5	7855.9	7849.6	7761.9	7645.9	7555.0
7.5°	7645.9	7696.0	7736.8	7799.5	7909.2	8025.2	8081.6	8062.8	7943.7	7818.3
10°	7272.8	7326.1	7423.3	7570.6	7802.6	8053.4	8263.4	8360.6	8285.4	8147.5
12.5°	6589.4	6642.7	6834.0	7153.7	7542.4	7978.2	8379.4	8639.6	8658.4	8520.5
15°	5821.4	5874.7	6078.5	6479.7	7072.2	7771.3	8442.1	8934.3	9100.4	8981.3
17.5°	5344.9	5391.9	5545.5	5868.4	6486.0	7357.5	8420.2	9247.8	9627.1	9533.1
20°	5200.7	5241.5	5313.6	5539.3	6053.4	6928.0	8276.0	9542.5	10194.5	10141.2
22.5°	5354.3	5391.9	5413.9	5514.2	5837.1	6645.9	8094.2	9843.4	10852.8	10859.1
25°	5708.5	5746.2	5721.1	5783.8	5924.9	6558.1	8025.2	10197.6	11680.4	11749.4
27.5°	6291.6	6294.8	6235.2	6232.1	6254.0	6689.8	8097.3	10577.0	12724.3	12852.9
30°	7460.9	7413.9	7185.1	6937.4	6824.5	7084.7	8297.9	11025.2	13956.3	14185.2
32.5°	9263.5	9194.5	8774.4	8181.9	7586.3	7721.1	8658.4	11536.2	15298.0	15711.8
35°	11219.6	11200.8	10761.9	9881.0	8840.3	8627.1	9244.6	12207.1	16762.0	17420.3
37.5°	13037.8	13028.4	12777.6	11740.0	10473.5	9890.4	10185.1	13084.8	18329.4	19282.4
40°	14699.3	14727.5	14476.7	13548.8	12272.9	11511.1	11464.1	14169.5	20072.4	21310.7
42.5°	16135.0	16166.4	15912.5	15225.9	14050.4	13304.3	13034.7	15498.7	21774.6	23489.4
45°	17110.0	17304.3	17266.7	16718.1	15874.8	15100.5	14921.8	17166.4	23715.1	25799.7
47.5°	17385.8	17564.5	17846.7	17921.9	17407.8	16646.0	16859.2	19175.8	25677.5	28113.3
50°	16705.6	16871.7	17457.9	18238.5	18595.9	18360.8	18743.2	21329.5	27686.9	30420.5
52.5°	15363.9	15533.1	16273.0	17508.1	18965.8	19705.6	20633.5	23451.7	29633.7	32605.5
55°	13423.4	13602.1	14551.9	15950.1	18260.5	20260.5	22210.4	25570.9	31417.4	34571.0
57.5°	10783.9	10915.5	11903.0	13859.1	16486.1	19708.7	23373.4	27884.4	33097.7	36502.1
60°	7028.3	7144.3	8291.7	10473.5	13545.6	17865.5	23605.4	30464.4	35329.7	39013.1
62.5°	4674.0	4752.4	5432.7	7034.6	9539.3	14326.2	22248.0	32524.0	38602.4	43383.1
65°	3206.9	3285.3	3965.6	5081.6	6163.1	9476.6	18345.1	32251.2	41568.0	46853.3
67.5°	2288.4	2354.3	2931.1	3984.4	4460.9	5504.8	12435.9	28765.3	41141.7	46985.0
70°	1639.5	1677.1	2153.6	3103.5	3545.5	3307.3	6915.5	22000.3	36022.5	43386.2
72.5°	1147.4	1159.9	1495.3	2363.7	2855.8	2413.8	3291.6	14667.9	27244.9	34053.8
75°	777.4	793.1	1006.3	1733.6	2291.6	1843.3	1743.0	7865.3	15994.0	18849.8
77.5°	476.5	482.8	648.9	1185.0	1714.8	1404.4	1122.3	3332.3	6188.2	6075.3
80°	269.6	269.6	413.8	736.7	1169.3	906.0	786.8	1416.9	1959.3	1721.0
82.5°	150.5	153.6	300.9	457.7	774.3	536.1	432.6	655.2	846.4	749.2
85°	62.7	69.0	185.0	216.3	369.9	266.5	175.6	275.9	313.5	279.0
87.5°	6.3	9.4	56.4	40.8	43.9	53.3	25.1	53.3	43.9	43.9
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°
7213.3	0°	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3	7213.3
7319.9	2.5°	7260.3	7213.3	7094.1	6956.2	6774.4	6686.6	6567.5	6486.0	6417.0	6423.3
7501.7	5°	7401.4	7282.2	7015.8	6683.5	6269.7	5975.0	5661.5	5445.2	5269.7	5232.1
7752.5	7.5°	7595.7	7407.6	6940.5	6341.8	5642.7	5112.9	4639.6	4335.5	4119.2	4050.2
8056.5	10°	7846.5	7573.8	6843.4	5912.3	4906.0	4232.0	3724.2	3485.9	3338.6	3288.4
8413.9	12.5°	8138.0	7765.0	6714.8	5388.8	4147.4	3498.5	3175.6	3056.5	3009.4	2993.8
8852.8	15°	8504.8	8003.3	6520.5	4768.1	3504.8	3050.2	2912.3	2896.6	2902.9	2896.6
9379.4	17.5°	8940.6	8263.4	6203.9	4128.6	3072.1	2821.4	2771.2	2783.7	2799.4	2796.3
9968.8	20°	9417.1	8520.5	5799.5	3561.2	2777.5	2658.3	2630.1	2642.7	2655.2	2648.9
10649.1	22.5°	9959.4	8796.4	5351.2	3119.2	2580.0	2507.9	2476.5	2479.7	2479.7	2467.1
11511.1	25°	10608.3	9100.4	4880.9	2805.7	2429.5	2373.1	2335.5	2322.9	2304.1	2266.5
12558.2	27.5°	11382.6	9423.3	4429.5	2586.2	2310.4	2257.1	2213.2	2181.8	2134.8	2072.1
13815.2	30°	12254.1	9815.2	4047.1	2448.3	2216.3	2163.0	2112.9	2065.9	1996.9	1918.5
15260.4	32.5°	13279.2	10235.3	3768.1	2357.4	2131.7	2075.3	2015.7	1959.3	1884.0	1805.7
16884.3	35°	14501.8	10743.1	3605.1	2294.7	2065.9	1990.6	1924.8	1862.1	1805.7	1736.7
18649.2	37.5°	15827.8	11282.3	3554.9	2263.4	2022.0	1906.0	1830.7	1786.9	1780.6	1739.8
20558.3	40°	17279.2	11921.8	3592.5	2244.5	1975.0	1824.5	1743.0	1733.6	1749.2	1677.1
22599.1	42.5°	18815.3	12680.4	3655.2	2222.6	1909.1	1743.0	1664.6	1664.6	1652.1	1551.7
24755.8	45°	20476.8	13555.1	3717.9	2169.3	1830.7	1661.5	1601.9	1580.0	1526.7	1429.5
26925.2	47.5°	22150.8	14445.3	3764.9	2072.1	1736.7	1592.5	1539.2	1489.0	1410.7	1322.9
29053.7	50°	23740.2	15244.7	3714.8	1927.9	1630.1	1526.7	1470.2	1401.3	1316.6	1257.1
31069.4	52.5°	25160.2	15937.5	3501.6	1758.6	1517.3	1457.7	1407.5	1335.4	1266.5	1203.8
32887.6	55°	26395.4	16498.7	3125.4	1598.8	1416.9	1398.1	1348.0	1257.1	1163.0	1109.7
34690.2	57.5°	27580.3	16925.0	2655.2	1467.1	1326.0	1332.3	1257.1	1175.6	1087.8	1031.4
37119.7	60°	29157.2	17495.6	2178.7	1344.8	1228.9	1247.7	1166.2	1106.6	996.9	924.8
41285.9	62.5°	31677.6	18382.7	1730.4	1194.4	1116.0	1122.3	1087.8	1015.7	884.0	799.4
44373.7	65°	33677.6	18056.7	1363.7	1031.4	987.5	996.9	996.9	918.5	777.4	680.3
44539.8	67.5°	33451.9	15461.0	1087.8	871.5	865.2	871.5	893.4	827.6	689.7	611.3
41147.9	70°	30815.5	12298.0	871.5	724.1	752.4	736.7	799.4	755.5	620.7	542.3
31900.1	72.5°	25144.6	8859.1	664.6	598.8	576.8	601.9	721.0	680.3	517.2	429.5
16896.8	75°	14693.0	4727.3	495.3	473.4	416.9	501.6	639.5	579.9	395.0	316.6
5178.8	77.5°	4783.8	1648.9	363.6	348.0	310.3	404.4	545.5	489.0	322.9	250.8
1517.3	80°	1282.2	498.4	247.7	228.8	200.6	300.9	432.6	388.7	232.0	163.0
652.0	82.5°	514.1	210.0	144.2	128.5	109.7	206.9	341.7	313.5	172.4	103.4
203.8	85°	166.1	69.0	53.3	40.8	50.2	128.5	203.8	213.2	122.3	53.3
31.3	87.5°	21.9	9.4	9.4	12.5	9.4	21.9	62.7	59.6	34.5	6.3
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°
7213.3
6360.6
5147.4
3981.2
3250.8
2984.4
2893.5
2790.0
2645.8
2460.9
2260.2
2065.9
1912.3
1808.8
1730.4
1736.7
1680.3
1551.7
1426.4
1319.8
1247.7
1197.5
1103.5
1025.1
915.4
793.1
670.9
598.8
532.9
420.1
307.2
241.4
159.9
103.4
40.8
0.0
0.0

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