

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: P944244

Luminaire Tested: **GALN-SB9A-835-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944244  
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-SB9A-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

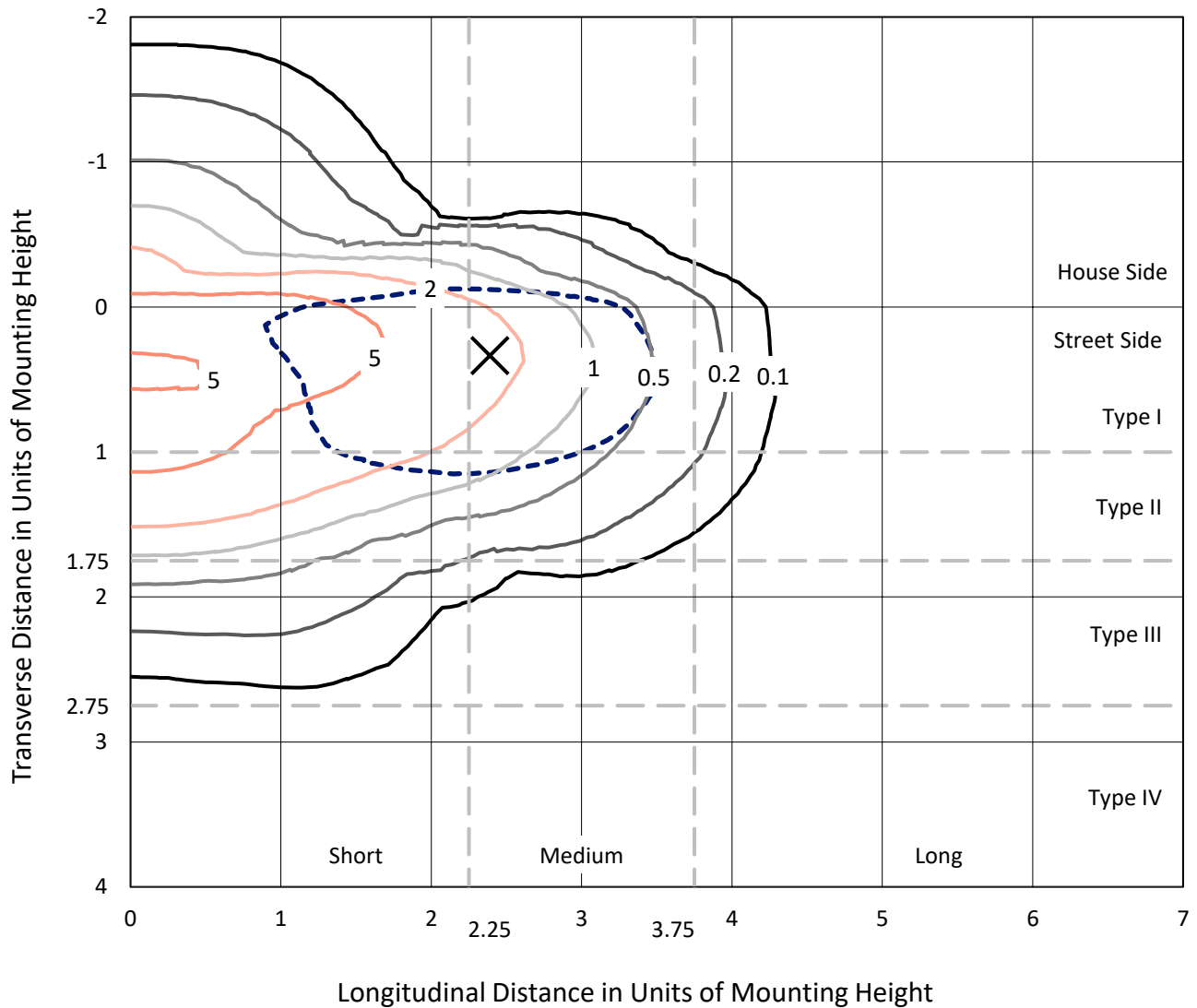
Lumens per Lamp: N/A  
Luminaire Lumens: 27674 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

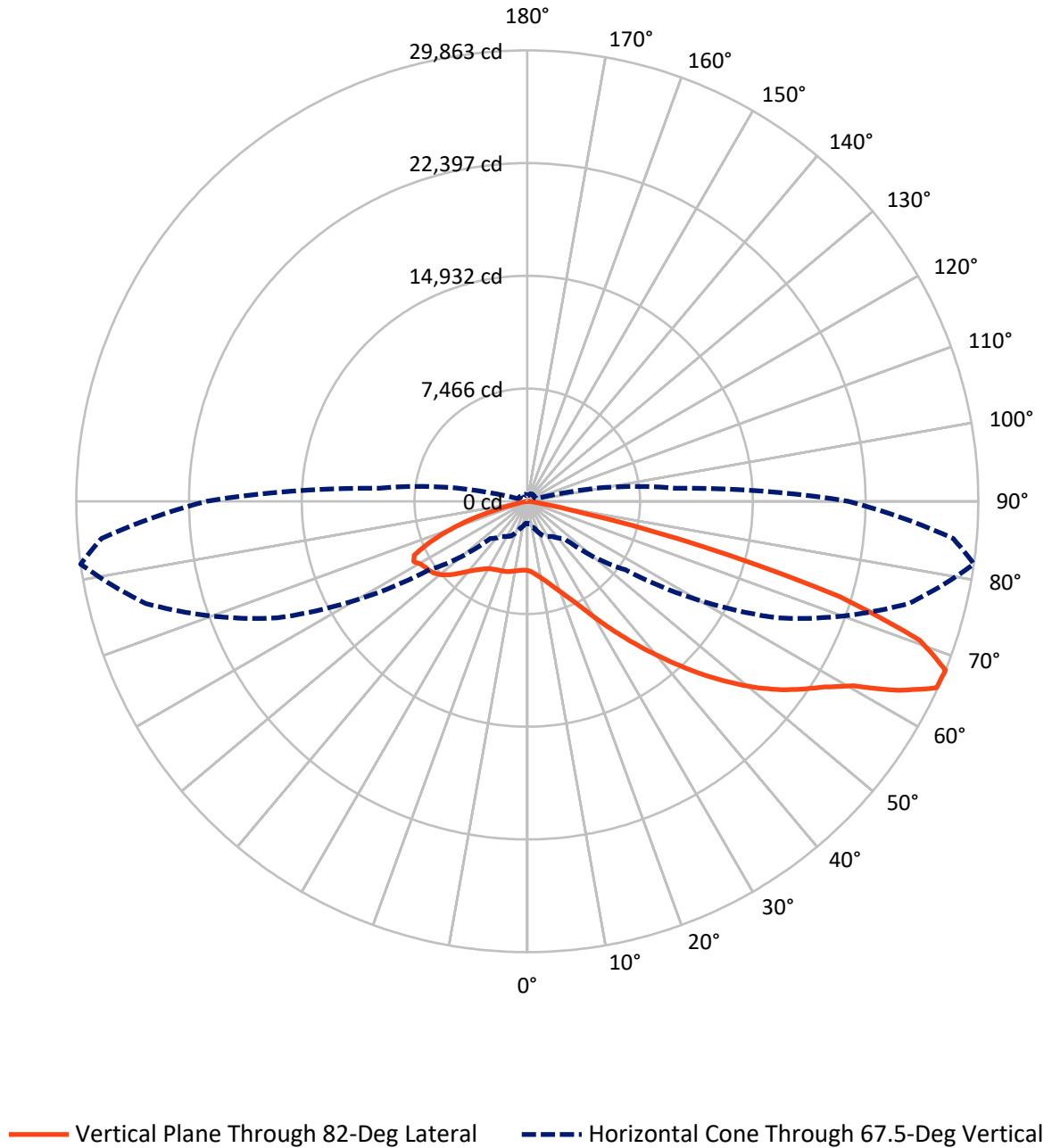
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB9A-835-U-T2-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5012.9	0.0	5012.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22661.1	0.0	22661.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27674.0	0.0	27674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.5	1.5
10°-20°	1061.4	3.8
20°-30°	1700.1	6.1
30°-40°	3006.2	10.9
40°-50°	5267.2	19.0
50°-60°	7024.9	25.4
60°-70°	6539.9	23.6
70°-80°	2510.0	9.1
80°-90°	155.9	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°	27674.0	100.0
0°-180°	27674.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944244

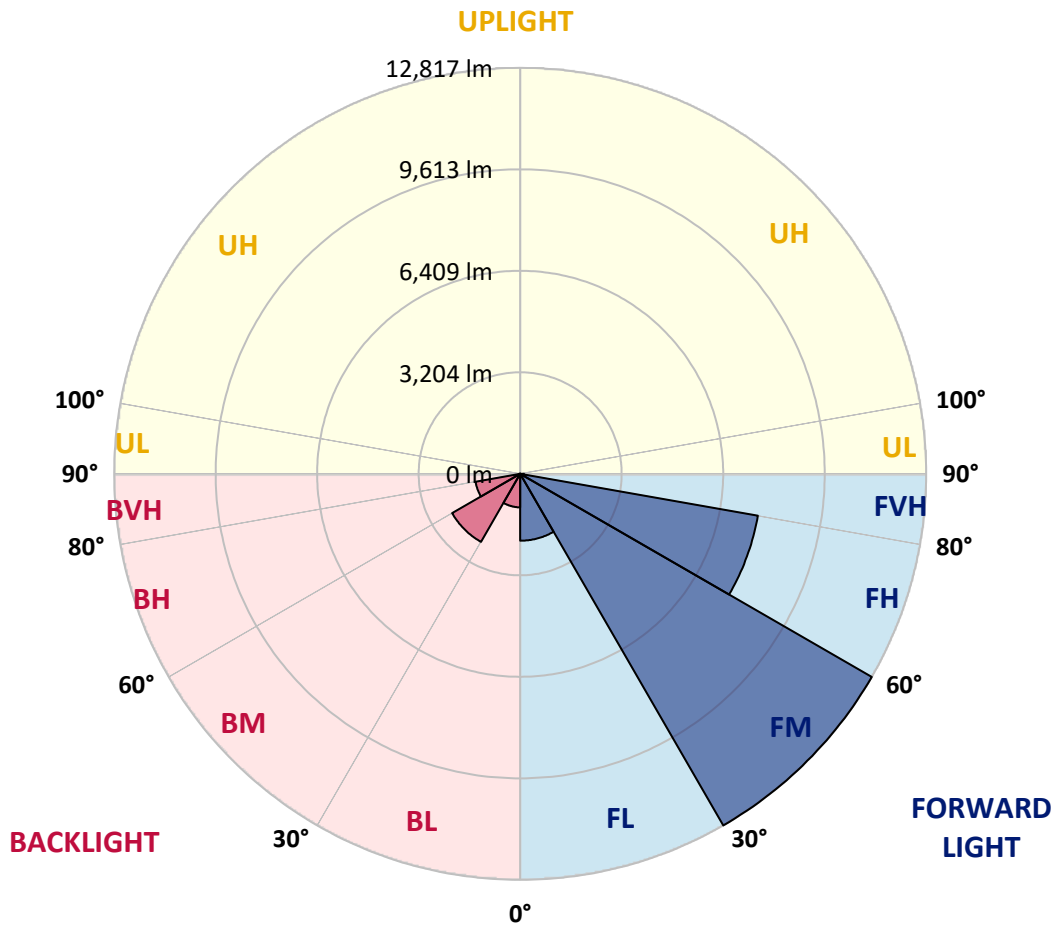
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.2	7.6			
FM (30°-60°)	12817.5	46.3			
FH (60°-80°)	7619.1	27.5			G4/12000
FVH (80°-90°)	113.3	0.4			G2/225
BL (0°-30°)	1058.7	3.8	B3/2500		
BM (30°-60°)	2480.9	9.0	B2/2500		
BH (60°-80°)	1430.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	42.6	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°	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6
2.5°	4845.7	4873.6	4857.6	4849.6	4835.7	4815.8	4799.8	4750.0	4698.2	4664.3
5°	4943.3	4971.2	4969.2	4977.2	4987.1	4993.1	4989.1	4933.3	4859.6	4801.8
7.5°	4859.6	4891.5	4917.4	4957.2	5027.0	5100.7	5136.6	5124.6	5048.9	4969.2
10°	4622.5	4656.4	4718.1	4811.8	4959.2	5118.6	5252.1	5313.9	5266.1	5178.4
12.5°	4188.1	4222.0	4343.6	4546.8	4793.9	5070.8	5325.8	5491.2	5503.2	5415.5
15°	3700.0	3733.9	3863.4	4118.4	4495.0	4939.3	5365.7	5678.5	5784.1	5708.4
17.5°	3397.1	3427.0	3524.7	3729.9	4122.4	4676.3	5351.7	5877.8	6118.8	6059.1
20°	3305.5	3331.4	3377.2	3520.7	3847.4	4403.3	5260.1	6065.0	6479.5	6445.6
22.5°	3403.1	3427.0	3441.0	3504.7	3710.0	4224.0	5144.5	6256.3	6897.9	6901.9
25°	3628.3	3652.2	3636.2	3676.1	3765.7	4168.2	5100.7	6481.5	7423.9	7467.7
27.5°	3998.9	4000.9	3963.0	3961.0	3975.0	4251.9	5146.5	6722.6	8087.4	8169.1
30°	4742.0	4712.2	4566.7	4409.3	4337.6	4503.0	5274.0	7007.5	8870.4	9015.9
32.5°	5887.7	5843.9	5576.9	5200.3	4821.7	4907.4	5503.2	7332.2	9723.2	9986.2
35°	7131.0	7119.1	6840.1	6280.2	5618.7	5483.2	5875.8	7758.6	10653.7	11072.1
37.5°	8286.6	8280.7	8121.3	7461.8	6656.8	6286.2	6473.5	8316.5	11649.9	12255.6
40°	9342.6	9360.6	9201.2	8611.4	7800.5	7316.3	7286.4	9005.9	12757.7	13544.7
42.5°	10255.2	10275.1	10113.7	9677.4	8930.2	8456.0	8284.6	9850.7	13839.6	14929.5
45°	10874.8	10998.4	10974.5	10625.8	10089.8	9597.7	9484.1	10910.7	15072.9	16397.9
47.5°	11050.2	11163.7	11343.1	11390.9	11064.1	10580.0	10715.4	12187.9	16320.2	17868.4
50°	10617.8	10723.4	11096.0	11592.1	11819.3	11669.8	11912.9	13556.7	17597.4	19334.8
52.5°	9765.0	9872.6	10342.8	11127.9	12054.4	12524.6	13114.4	14905.6	18834.7	20723.6
55°	8531.7	8645.3	9249.0	10137.6	11606.1	12877.3	14116.6	16252.5	19968.4	21972.8
57.5°	6854.1	6937.7	7565.4	8808.7	10478.3	12526.6	14855.8	17722.9	21036.4	23200.2
60°	4467.1	4540.8	5270.1	6656.8	8609.4	11355.0	15003.2	19362.7	22455.0	24796.1
62.5°	2970.8	3020.6	3452.9	4471.1	6063.0	9105.5	14140.5	20671.7	24535.1	27573.6
65°	2038.3	2088.1	2520.5	3229.8	3917.2	6023.2	11659.9	20498.4	26420.0	29779.3
67.5°	1454.5	1496.3	1862.9	2532.4	2835.3	3498.8	7904.1	18282.8	26149.0	29863.0
70°	1042.1	1066.0	1368.8	1972.5	2253.5	2102.0	4395.4	13983.1	22895.3	27575.6
72.5°	729.2	737.2	950.4	1502.3	1815.1	1534.2	2092.1	9322.7	17316.5	21644.1
75°	494.1	504.1	639.6	1101.8	1456.5	1171.6	1107.8	4999.1	10165.5	11980.6
77.5°	302.9	306.8	412.4	753.1	1089.9	892.6	713.3	2118.0	3933.1	3861.4
80°	171.4	171.4	263.0	468.2	743.2	575.8	500.1	900.6	1245.3	1093.9
82.5°	95.6	97.6	191.3	290.9	492.1	340.7	275.0	416.4	538.0	476.2
85°	39.8	43.8	117.6	137.5	235.1	169.4	111.6	175.3	199.2	177.3
87.5°	4.0	6.0	35.9	25.9	27.9	33.9	15.9	33.9	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944244  
 CATALOG NUMBER: GALN-SB9A-835-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4584.6	0°	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6
4652.4	2.5°	4614.5	4584.6	4508.9	4421.3	4305.7	4249.9	4174.2	4122.4	4078.6	4082.5
4768.0	5°	4704.2	4628.5	4459.1	4247.9	3984.9	3797.6	3598.4	3460.9	3349.3	3325.4
4927.3	7.5°	4827.7	4708.2	4411.3	4030.7	3586.4	3249.7	2948.8	2755.6	2618.1	2574.3
5120.6	10°	4987.1	4813.8	4349.5	3757.8	3118.2	2689.8	2367.0	2215.6	2122.0	2090.1
5347.8	12.5°	5172.4	4935.3	4267.8	3425.0	2636.0	2223.6	2018.4	1942.6	1912.8	1902.8
5626.7	15°	5405.5	5086.7	4144.3	3030.5	2227.6	1938.7	1851.0	1841.0	1845.0	1841.0
5961.4	17.5°	5682.5	5252.1	3943.1	2624.1	1952.6	1793.2	1761.3	1769.3	1779.3	1777.3
6336.0	20°	5985.3	5415.5	3686.0	2263.4	1765.3	1689.6	1671.7	1679.6	1687.6	1683.6
6768.4	22.5°	6330.0	5590.8	3401.1	1982.5	1639.8	1594.0	1574.0	1576.0	1576.0	1568.1
7316.3	25°	6742.5	5784.1	3102.3	1783.2	1544.2	1508.3	1484.4	1476.4	1464.5	1440.5
7981.8	27.5°	7234.6	5989.3	2815.3	1643.8	1468.4	1434.6	1406.7	1386.8	1356.9	1317.0
8780.8	30°	7788.5	6238.4	2572.3	1556.1	1408.7	1374.8	1342.9	1313.0	1269.2	1219.4
9699.3	32.5°	8440.1	6505.4	2394.9	1498.3	1354.9	1319.0	1281.2	1245.3	1197.5	1147.7
10731.4	35°	9217.1	6828.2	2291.3	1458.5	1313.0	1265.2	1223.4	1183.5	1147.7	1103.8
11853.1	37.5°	10059.9	7170.9	2259.4	1438.6	1285.1	1211.4	1163.6	1135.7	1131.7	1105.8
13066.5	40°	10982.4	7577.3	2283.4	1426.6	1255.2	1159.6	1107.8	1101.8	1111.8	1066.0
14363.6	42.5°	11958.7	8059.5	2323.2	1412.7	1213.4	1107.8	1058.0	1058.0	1050.0	986.3
15734.4	45°	13014.7	8615.4	2363.1	1378.8	1163.6	1056.0	1018.1	1004.2	970.3	908.6
17113.2	47.5°	14078.7	9181.2	2392.9	1317.0	1103.8	1012.2	978.3	946.4	896.6	840.8
18466.1	50°	15088.9	9689.3	2361.1	1225.4	1036.1	970.3	934.5	890.6	836.8	799.0
19747.2	52.5°	15991.5	10129.7	2225.6	1117.8	964.3	926.5	894.6	848.8	805.0	765.1
20902.9	55°	16776.5	10486.3	1986.5	1016.2	900.6	888.6	856.8	799.0	739.2	705.3
22048.5	57.5°	17529.6	10757.3	1687.6	932.5	842.8	846.8	799.0	747.2	691.4	655.5
23592.7	60°	18531.8	11119.9	1384.8	854.8	781.0	793.0	741.2	703.3	633.6	587.8
26240.7	62.5°	20133.8	11683.8	1099.8	759.1	709.3	713.3	691.4	645.6	561.9	508.1
28203.2	65°	21405.0	11476.6	866.7	655.5	627.6	633.6	633.6	583.8	494.1	432.4
28308.8	67.5°	21261.5	9826.8	691.4	553.9	549.9	553.9	567.9	526.0	438.3	388.5
26153.0	70°	19585.9	7816.4	553.9	460.3	478.2	468.2	508.1	480.2	394.5	344.7
20275.3	72.5°	15981.5	5630.7	422.4	380.6	366.6	382.6	458.3	432.4	328.8	273.0
10739.3	75°	9338.6	3004.6	314.8	300.9	265.0	318.8	406.5	368.6	251.0	201.2
3291.5	77.5°	3040.5	1048.0	231.1	221.2	197.3	257.0	346.7	310.8	205.2	159.4
964.3	80°	814.9	316.8	157.4	145.4	127.5	191.3	275.0	247.1	147.4	103.6
414.4	82.5°	326.8	133.5	91.7	81.7	69.7	131.5	217.2	199.2	109.6	65.8
129.5	85°	105.6	43.8	33.9	25.9	31.9	81.7	129.5	135.5	77.7	33.9
19.9	87.5°	13.9	6.0	6.0	8.0	6.0	13.9	39.8	37.9	21.9	4.0
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>
4584.6
4042.7
3271.6
2530.4
2066.2
1896.8
1839.0
1773.3
1681.6
1564.1
1436.6
1313.0
1215.4
1149.6
1099.8
1103.8
1068.0
986.3
906.6
838.8
793.0
761.1
701.3
651.5
581.8
504.1
426.4
380.6
338.7
267.0
195.3
153.4
101.6
65.8
25.9
0.0
0.0

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