

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: P943964

Luminaire Tested: **GALN-SB8C-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943964  
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-SB8C-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

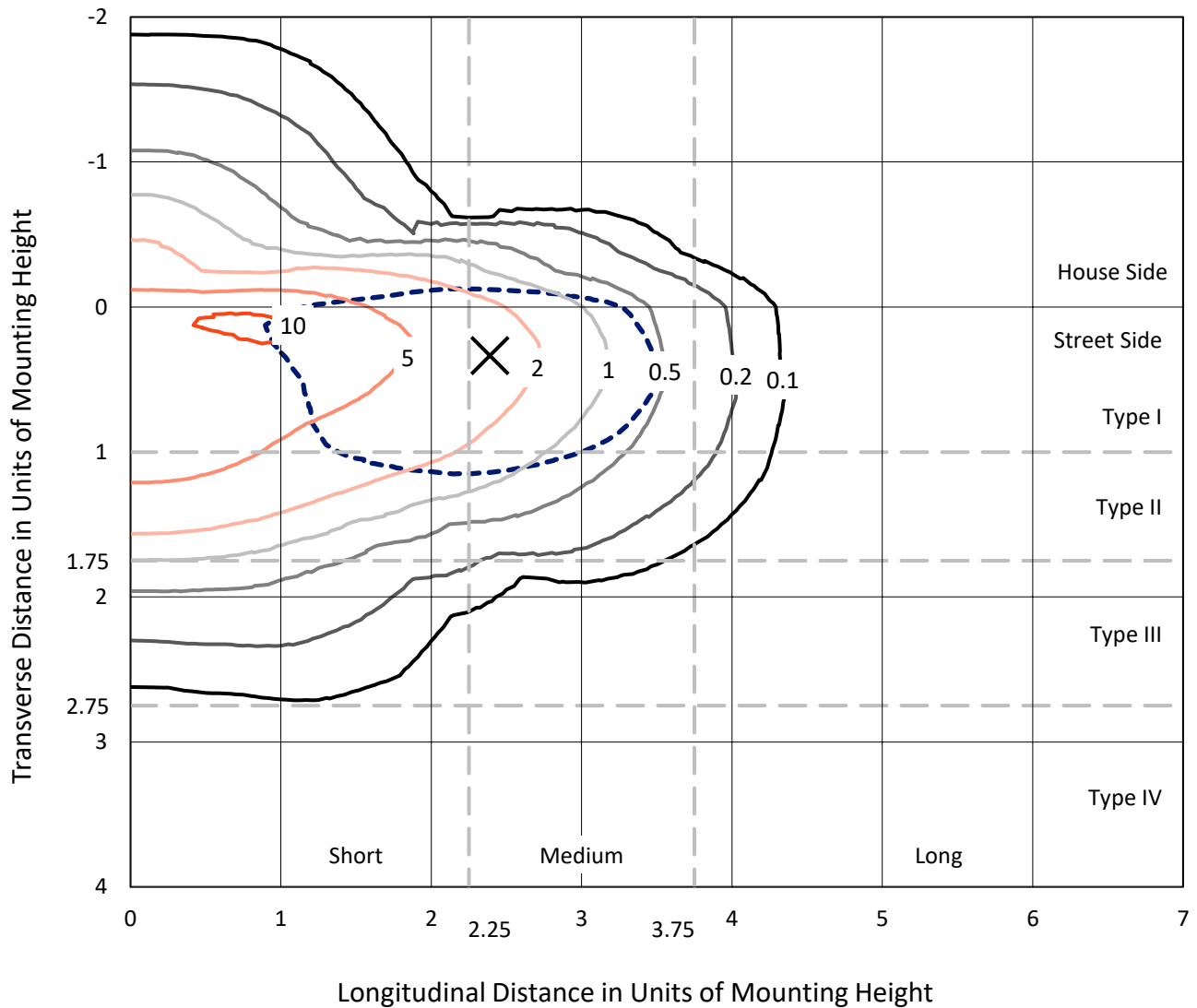
Lumens per Lamp: N/A  
Luminaire Lumens: 32044 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

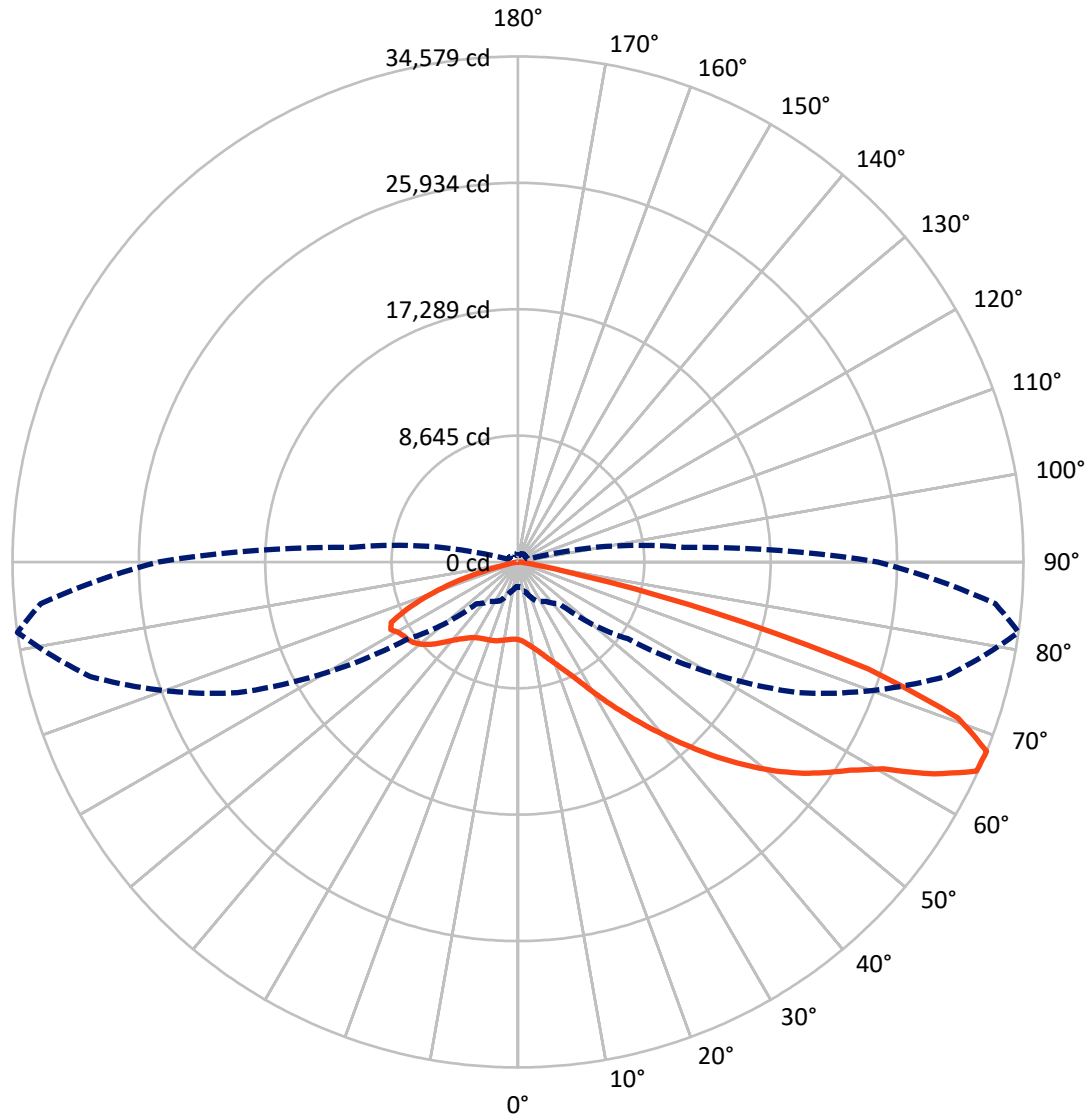
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5804.5	0.0	5804.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26239.5	0.0	26239.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	32044.0	0.0	32044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.0	1.5
10°-20°	1229.0	3.8
20°-30°	1968.5	6.1
30°-40°	3480.9	10.9
40°-50°	6098.9	19.0
50°-60°	8134.2	25.4
60°-70°	7572.6	23.6
70°-80°	2906.3	9.1
80°-90°	180.5	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°	32044.0	100.0
0°-180°	32044.0	100.0

**Coefficient of Utilization**



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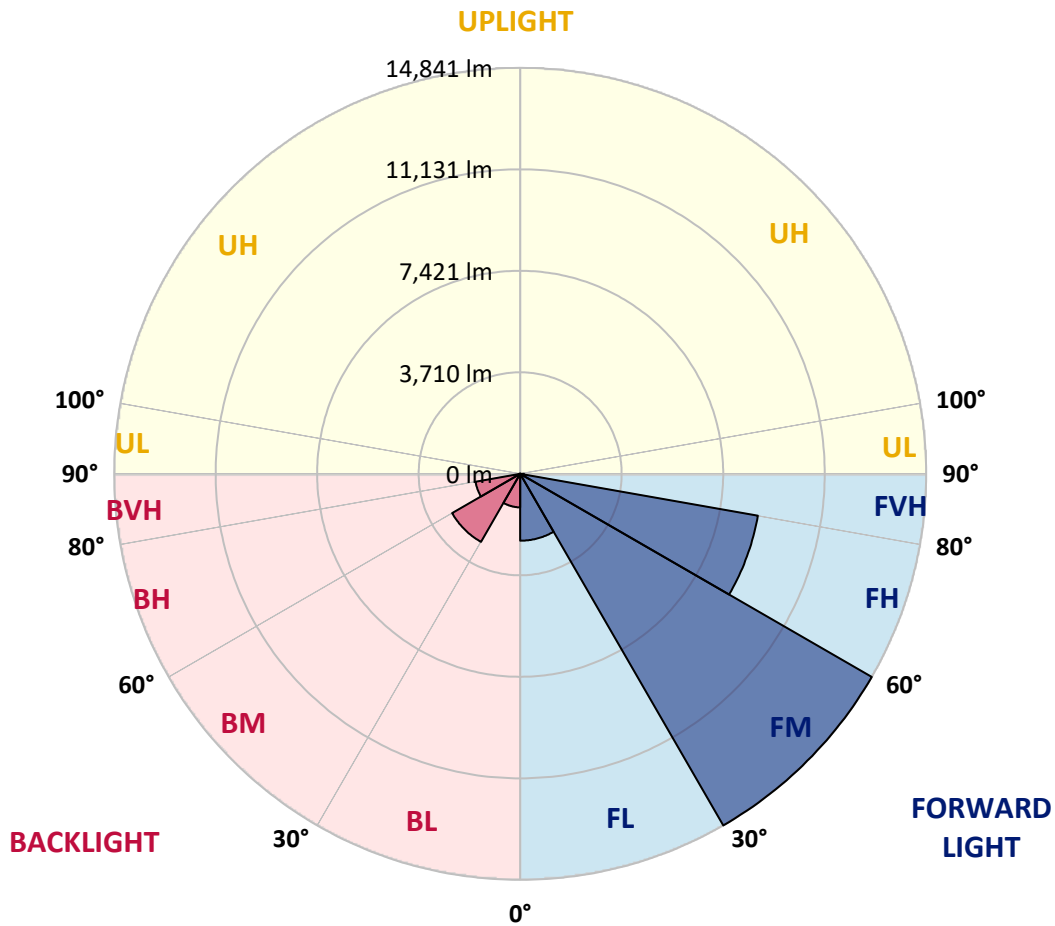
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.6	7.6			
FM (30°-60°)	14841.5	46.3			
FH (60°-80°)	8822.2	27.5			G4/12000
FVH (80°-90°)	131.2	0.4			G2/225
BL (0°-30°)	1225.9	3.8	B3/2500		
BM (30°-60°)	2872.6	9.0	B3/5000		
BH (60°-80°)	1656.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	49.3	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°	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6
2.5°	5610.8	5643.1	5624.7	5615.4	5599.3	5576.2	5557.8	5500.1	5440.1	5400.9
5°	5723.9	5756.2	5753.9	5763.1	5774.6	5781.6	5776.9	5712.3	5627.0	5560.1
7.5°	5627.0	5663.9	5693.9	5740.0	5820.8	5906.1	5947.7	5933.8	5846.2	5753.9
10°	5352.4	5391.7	5463.2	5571.6	5742.3	5926.9	6081.5	6153.0	6097.6	5996.1
12.5°	4849.5	4888.7	5029.4	5264.8	5550.9	5871.5	6166.8	6358.3	6372.2	6270.7
15°	4284.3	4323.5	4473.4	4768.7	5204.8	5719.3	6213.0	6575.2	6697.5	6609.8
17.5°	3933.6	3968.2	4081.2	4318.9	4773.4	5414.7	6196.8	6805.9	7085.1	7015.9
20°	3827.5	3857.4	3910.5	4076.6	4455.0	5098.7	6090.7	7022.8	7502.6	7463.4
22.5°	3940.5	3968.2	3984.3	4058.2	4295.8	4891.0	5956.9	7244.3	7987.1	7991.7
25°	4201.2	4228.9	4210.4	4256.6	4360.4	4826.4	5906.1	7505.0	8596.2	8647.0
27.5°	4630.3	4632.6	4588.8	4586.5	4602.6	4923.3	5959.2	7784.1	9364.5	9459.1
30°	5490.9	5456.3	5287.8	5105.6	5022.5	5214.0	6106.9	8114.0	10271.1	10439.6
32.5°	6817.4	6766.7	6457.5	6021.5	5583.1	5682.4	6372.2	8490.1	11258.6	11563.1
35°	8257.1	8243.2	7920.2	7271.9	6506.0	6349.1	6803.6	8983.8	12336.0	12820.5
37.5°	9595.2	9588.3	9403.7	8640.0	7708.0	7278.9	7495.7	9629.8	13489.5	14190.9
40°	10817.9	10838.7	10654.1	9971.2	9032.2	8471.6	8437.0	10428.0	14772.3	15683.6
42.5°	11874.6	11897.6	11710.8	11205.5	10340.4	9791.3	9592.9	11406.2	16025.0	17287.0
45°	12592.1	12735.1	12707.4	12303.7	11683.1	11113.2	10981.7	12633.6	17453.1	18987.3
47.5°	12795.1	12926.6	13134.2	13189.6	12811.3	12250.6	12407.5	14112.4	18897.3	20690.0
50°	12294.5	12416.7	12848.2	13422.6	13685.6	13512.6	13794.1	15697.4	20376.2	22388.0
52.5°	11307.0	11431.6	11976.1	12885.1	13957.9	14502.3	15185.2	17259.3	21808.9	23996.0
55°	9878.9	10010.4	10709.5	11738.5	13438.8	14910.7	16345.7	18818.9	23121.6	25442.6
57.5°	7936.4	8033.3	8760.0	10199.6	12133.0	14504.7	17201.6	20521.5	24358.2	26863.7
60°	5172.5	5257.9	6102.2	7708.0	9968.9	13148.1	17372.4	22420.3	26000.9	28711.7
62.5°	3439.9	3497.5	3998.2	5177.1	7020.5	10543.4	16373.4	23936.0	28409.5	31927.8
65°	2360.1	2417.8	2918.5	3739.8	4535.7	6974.3	13501.1	23735.3	30592.0	34481.7
67.5°	1684.2	1732.6	2157.1	2932.3	3283.0	4051.2	9152.2	21169.8	30278.2	34578.6
70°	1206.6	1234.3	1585.0	2284.0	2609.3	2434.0	5089.4	16191.1	26510.7	31930.1
72.5°	844.4	853.6	1100.5	1739.5	2101.8	1776.5	2422.4	10794.9	20050.9	25061.9
75°	572.2	583.7	740.6	1275.8	1686.5	1356.6	1282.7	5788.5	11770.8	13872.5
77.5°	350.7	355.3	477.6	872.1	1262.0	1033.6	825.9	2452.4	4554.2	4471.1
80°	198.4	198.4	304.5	542.2	860.5	666.7	579.1	1042.8	1441.9	1266.6
82.5°	110.7	113.0	221.5	336.8	569.9	394.5	318.4	482.2	622.9	551.4
85°	46.1	50.8	136.1	159.2	272.2	196.1	129.2	203.0	230.7	205.3
87.5°	4.6	6.9	41.5	30.0	32.3	39.2	18.5	39.2	32.3	32.3
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°
5308.6	0°	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6	5308.6
5387.0	2.5°	5343.2	5308.6	5220.9	5119.4	4985.6	4921.0	4833.3	4773.4	4722.6	4727.2
5520.9	5°	5447.0	5359.4	5163.3	4918.7	4614.2	4397.3	4166.6	4007.4	3878.2	3850.5
5705.4	7.5°	5590.1	5451.6	5107.9	4667.2	4152.8	3762.9	3414.5	3190.7	3031.5	2980.8
5929.2	10°	5774.6	5573.9	5036.4	4351.2	3610.6	3114.6	2740.8	2565.5	2457.0	2420.1
6192.2	12.5°	5989.2	5714.7	4941.8	3965.9	3052.3	2574.7	2337.1	2249.4	2214.8	2203.3
6515.2	15°	6259.1	5890.0	4798.7	3509.1	2579.3	2244.8	2143.3	2131.7	2136.4	2131.7
6902.8	17.5°	6579.8	6081.5	4565.7	3038.4	2260.9	2076.4	2039.5	2048.7	2060.2	2057.9
7336.5	20°	6930.5	6270.7	4268.1	2620.9	2044.1	1956.4	1935.6	1944.9	1954.1	1949.5
7837.2	22.5°	7329.6	6473.7	3938.2	2295.6	1898.7	1845.7	1822.6	1824.9	1824.9	1815.7
8471.6	25°	7807.2	6697.5	3592.1	2064.8	1788.0	1746.5	1718.8	1709.6	1695.7	1668.0
9242.2	27.5°	8377.0	6935.1	3259.9	1903.3	1700.3	1661.1	1628.8	1605.7	1571.1	1525.0
10167.3	30°	9018.4	7223.5	2978.4	1801.8	1631.1	1591.9	1555.0	1520.4	1469.6	1411.9
11230.9	32.5°	9772.8	7532.6	2773.1	1734.9	1568.8	1527.3	1483.5	1441.9	1386.6	1328.9
12426.0	35°	10672.6	7906.4	2653.1	1688.8	1520.4	1465.0	1416.6	1370.4	1328.9	1278.1
13724.9	37.5°	11648.5	8303.2	2616.2	1665.7	1488.1	1402.7	1347.3	1315.0	1310.4	1280.4
15129.9	40°	12716.7	8773.9	2643.9	1651.9	1453.5	1342.7	1282.7	1275.8	1287.4	1234.3
16631.8	42.5°	13847.1	9332.2	2690.1	1635.7	1405.0	1282.7	1225.1	1225.1	1215.8	1142.0
18219.1	45°	15069.9	9975.8	2736.2	1596.5	1347.3	1222.8	1178.9	1162.8	1123.6	1052.0
19815.6	47.5°	16301.9	10631.1	2770.8	1525.0	1278.1	1172.0	1132.8	1095.9	1038.2	973.6
21382.1	50°	17471.6	11219.4	2733.9	1418.9	1199.7	1123.6	1082.0	1031.3	969.0	925.1
22865.5	52.5°	18516.7	11729.2	2577.0	1294.3	1116.6	1072.8	1035.9	982.8	932.1	885.9
24203.6	55°	19425.7	12142.2	2300.2	1176.6	1042.8	1029.0	992.0	925.1	855.9	816.7
25530.2	57.5°	20297.7	12456.0	1954.1	1079.7	975.9	980.5	925.1	865.2	800.6	759.0
27318.2	60°	21458.2	12875.9	1603.4	989.7	904.4	918.2	858.2	814.4	733.7	680.6
30384.3	62.5°	23313.1	13528.8	1273.5	879.0	821.3	825.9	800.6	747.5	650.6	588.3
32656.8	65°	24785.0	13288.8	1003.6	759.0	726.7	733.7	733.7	676.0	572.2	500.6
32779.1	67.5°	24618.9	11378.6	800.6	641.4	636.8	641.4	657.5	609.1	507.6	449.9
30282.8	70°	22678.7	9050.7	641.4	532.9	553.7	542.2	588.3	556.0	456.8	399.1
23476.9	72.5°	18505.1	6519.8	489.1	440.7	424.5	443.0	530.6	500.6	380.7	316.1
12435.2	75°	10813.3	3479.1	364.5	348.4	306.8	369.1	470.6	426.8	290.7	233.0
3811.3	77.5°	3520.6	1213.5	267.6	256.1	228.4	297.6	401.4	359.9	237.6	184.6
1116.6	80°	943.6	366.8	182.3	168.4	147.7	221.5	318.4	286.1	170.7	120.0
479.9	82.5°	378.4	154.6	106.1	94.6	80.7	152.3	251.5	230.7	126.9	76.1
150.0	85°	122.3	50.8	39.2	30.0	36.9	94.6	150.0	156.9	90.0	39.2
23.1	87.5°	16.1	6.9	6.9	9.2	6.9	16.1	46.1	43.8	25.4	4.6
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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<u>180°</u>
5308.6
4681.1
3788.2
2930.0
2392.4
2196.3
2129.4
2053.3
1947.2
1811.1
1663.4
1520.4
1407.3
1331.2
1273.5
1278.1
1236.6
1142.0
1049.7
971.3
918.2
881.3
812.1
754.4
673.7
583.7
493.7
440.7
392.2
309.1
226.1
177.6
117.7
76.1
30.0
0.0
0.0

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