

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: P944144

Luminaire Tested: **GALN-SB8D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944144
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-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 41799 lumens
Efficiency: N/A
Efficacy: 71.5 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

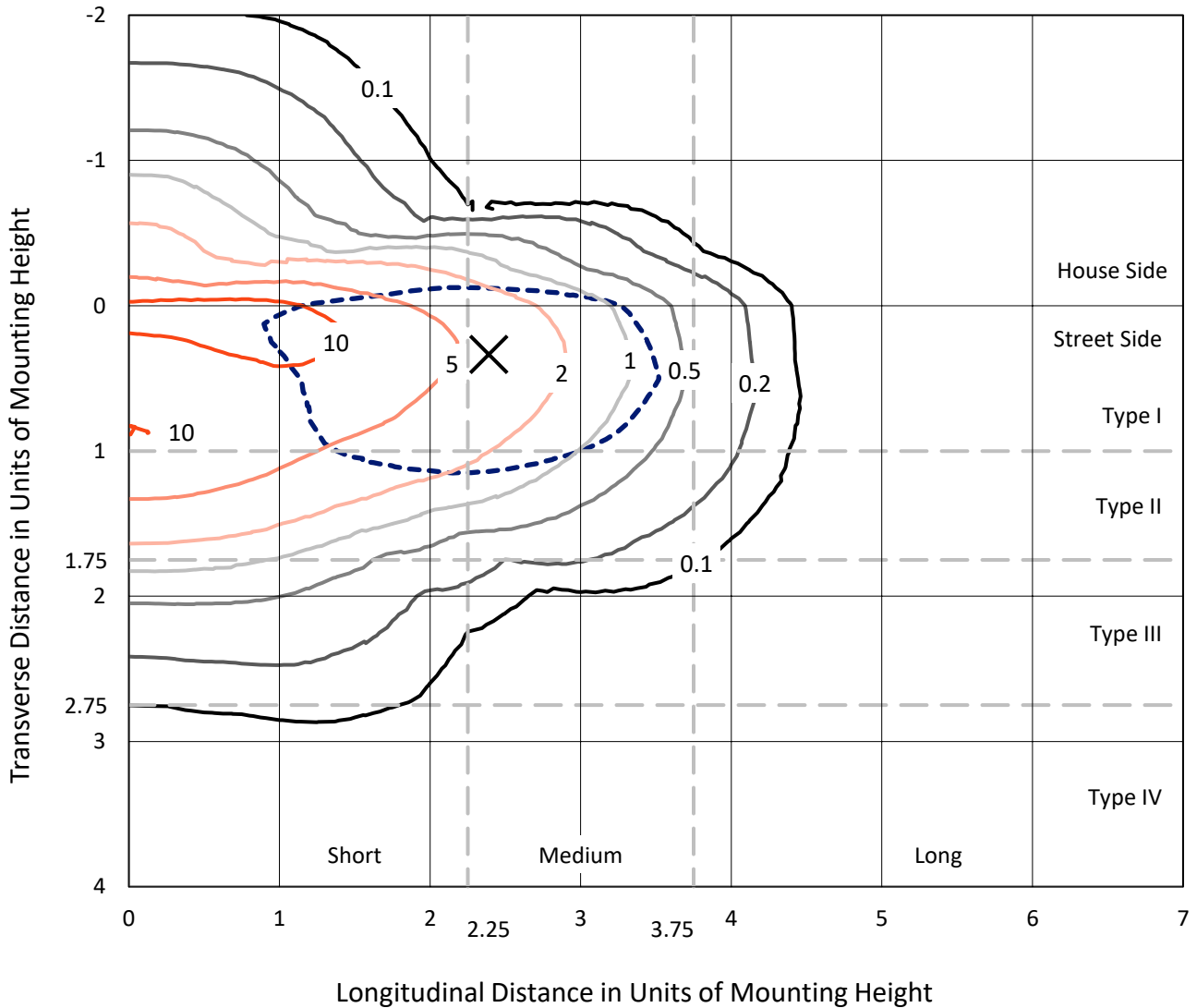
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

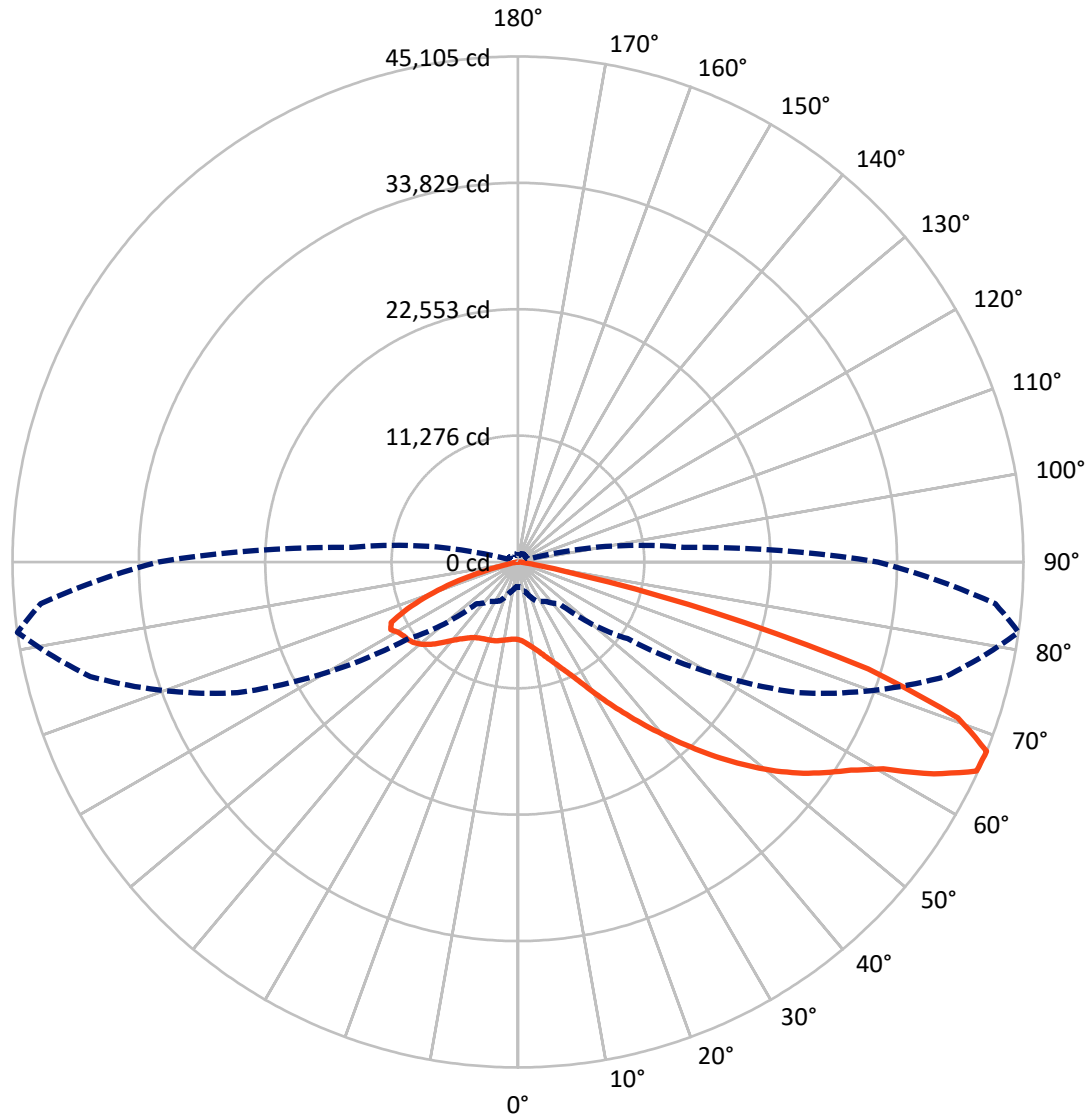
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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
House Side	Lumens	7571.5	0.0	7571.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34227.5	0.0	34227.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	41799.0	0.0	41799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	1.5
10°-20°	1603.2	3.8
20°-30°	2567.8	6.1
30°-40°	4540.6	10.9
40°-50°	7955.6	19.0
50°-60°	10610.5	25.4
60°-70°	9877.8	23.6
70°-80°	3791.1	9.1
80°-90°	235.5	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°	41799.0	100.0
0°-180°	41799.0	100.0

Coefficient of Utilization



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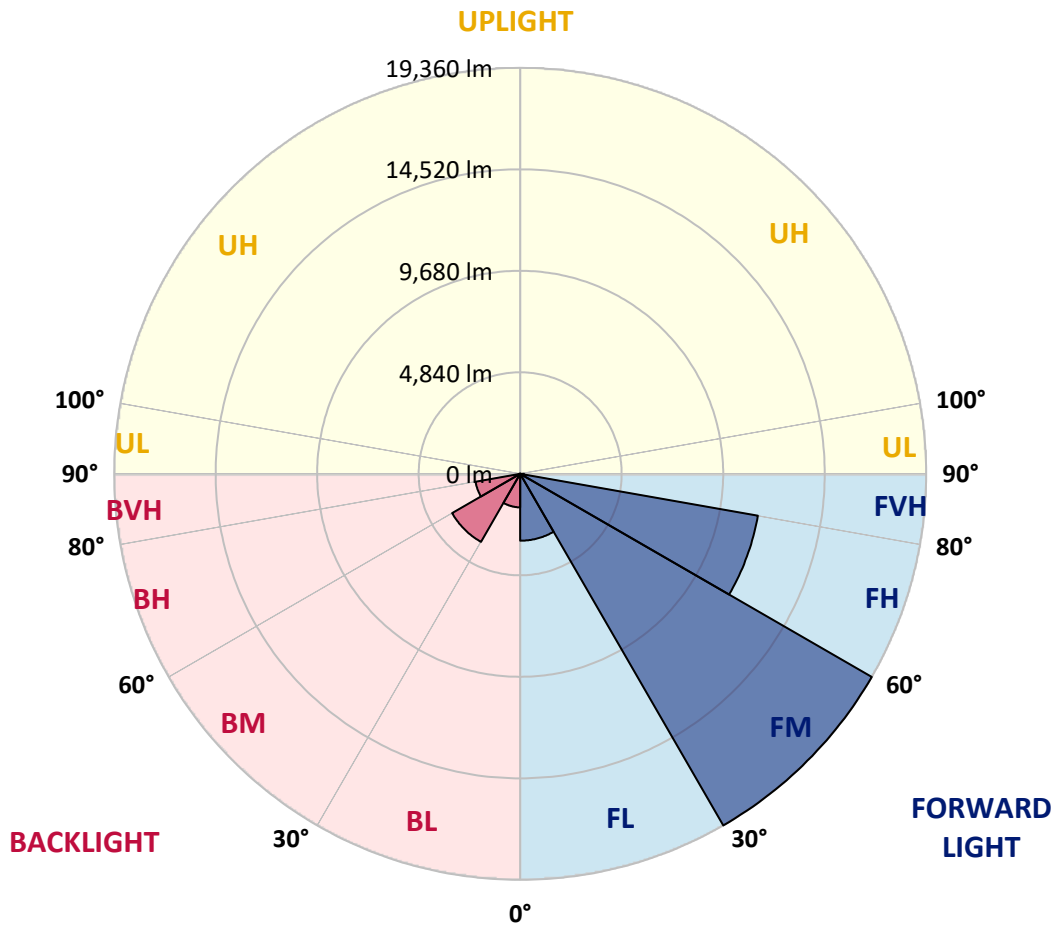
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3188.8	7.6			
FM (30°-60°)	19359.6	46.3			
FH (60°-80°)	11507.9	27.5			G4/12000
FVH (80°-90°)	171.2	0.4			G2/225
BL (0°-30°)	1599.1	3.8	B3/2500		
BM (30°-60°)	3747.1	9.0	B3/5000		
BH (60°-80°)	2161.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	64.3	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°	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7
2.5°	7318.9	7361.0	7337.0	7324.9	7303.9	7273.8	7249.7	7174.5	7096.2	7045.1
5°	7466.4	7508.5	7505.5	7517.5	7532.6	7541.6	7535.6	7451.3	7340.0	7252.7
7.5°	7340.0	7388.1	7427.3	7487.4	7592.8	7704.1	7758.3	7740.2	7625.9	7505.5
10°	6981.9	7033.0	7126.3	7267.8	7490.5	7731.2	7932.8	8026.1	7953.9	7821.5
12.5°	6325.8	6377.0	6560.5	6867.5	7240.7	7659.0	8044.2	8294.0	8312.0	8179.6
15°	5588.5	5639.7	5835.3	6220.5	6789.3	7460.4	8104.4	8576.9	8736.4	8622.0
17.5°	5131.1	5176.2	5323.7	5633.6	6226.5	7063.1	8083.3	8877.8	9241.9	9151.7
20°	4992.6	5031.8	5101.0	5317.6	5811.2	6650.8	7944.9	9160.7	9786.6	9735.5
22.5°	5140.1	5176.2	5197.3	5293.6	5603.5	6380.0	7770.3	9449.6	10418.6	10424.6
25°	5480.2	5516.3	5492.2	5552.4	5687.8	6295.7	7704.1	9789.6	11213.1	11279.3
27.5°	6039.9	6042.9	5985.7	5982.7	6003.8	6422.1	7773.3	10153.8	12215.2	12338.6
30°	7162.4	7117.3	6897.6	6659.9	6551.5	6801.3	7965.9	10584.1	13397.9	13617.6
32.5°	8892.8	8826.6	8423.4	7854.6	7282.8	7412.2	8312.0	11074.7	14686.0	15083.2
35°	10770.7	10752.7	10331.3	9485.7	8486.6	8281.9	8874.8	11718.7	16091.4	16723.4
37.5°	12516.2	12507.2	12266.4	11270.3	10054.5	9494.7	9777.6	12561.3	17596.1	18511.0
40°	14111.2	14138.3	13897.5	13006.7	11781.9	11050.6	11005.5	13602.6	19269.3	20458.0
42.5°	15489.5	15519.6	15275.8	14616.8	13488.2	12772.0	12513.2	14878.6	20903.4	22549.6
45°	16425.4	16612.0	16575.9	16049.2	15239.7	14496.4	14324.8	16479.6	22766.3	24767.5
47.5°	16690.3	16861.8	17132.6	17204.9	16711.3	15980.0	16184.7	18408.6	24650.2	26988.5
50°	16037.2	16196.7	16759.5	17508.8	17851.9	17626.2	17993.3	20476.1	26579.2	29203.4
52.5°	14749.2	14911.7	15621.9	16807.6	18207.0	18917.2	19808.0	22513.5	28448.1	31301.0
55°	12886.3	13057.9	13969.7	15311.9	17529.9	19449.9	21321.8	24547.9	30160.4	33187.9
57.5°	10352.4	10478.8	11426.8	13304.7	15826.5	18920.2	22438.2	26768.8	31773.5	35041.7
60°	6747.1	6858.5	7959.9	10054.5	13003.7	17150.7	22660.9	29245.6	33916.2	37452.3
62.5°	4487.0	4562.3	5215.3	6753.1	9157.7	13753.1	21357.9	31222.8	37058.0	41647.4
65°	3078.6	3153.9	3806.9	4878.3	5916.5	9097.5	17611.1	30960.9	39904.9	44978.8
67.5°	2196.9	2260.1	2813.8	3825.0	4282.4	5284.5	11938.4	27614.5	39495.7	45105.2
70°	1573.9	1610.0	2067.5	2979.3	3403.7	3174.9	6638.8	21120.1	34581.3	41650.4
72.5°	1101.4	1113.5	1435.5	2269.1	2741.6	2317.3	3159.9	14081.1	26154.9	32691.3
75°	746.3	761.4	966.0	1664.2	2199.9	1769.5	1673.2	7550.6	15354.1	18095.7
77.5°	457.4	463.5	623.0	1137.6	1646.2	1348.2	1077.4	3199.0	5940.6	5832.3
80°	258.8	258.8	397.2	707.2	1122.5	869.7	755.4	1360.3	1880.9	1652.2
82.5°	144.5	147.5	288.9	439.4	743.3	514.6	415.3	629.0	812.5	719.3
85°	60.2	66.2	177.6	207.7	355.1	255.8	168.5	264.8	300.9	267.8
87.5°	6.0	9.0	54.2	39.1	42.1	51.2	24.1	51.2	42.1	42.1
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°
6924.7	0°	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7	6924.7
7027.0	2.5°	6969.8	6924.7	6810.3	6677.9	6503.4	6419.1	6304.7	6226.5	6160.3	6166.3
7201.5	5°	7105.2	6990.9	6735.1	6416.1	6018.8	5736.0	5435.0	5227.4	5058.8	5022.7
7442.3	7.5°	7291.8	7111.3	6662.9	6088.1	5417.0	4908.4	4453.9	4162.0	3954.4	3888.2
7734.2	10°	7532.6	7270.8	6569.6	5675.8	4709.7	4062.7	3575.2	3346.5	3205.0	3156.9
8077.3	12.5°	7812.5	7454.3	6446.2	5173.2	3981.5	3358.5	3048.5	2934.2	2889.0	2874.0
8498.6	15°	8164.6	7683.1	6259.6	4577.3	3364.5	2928.2	2795.8	2780.7	2786.7	2780.7
9004.2	17.5°	8582.9	7932.8	5955.6	3963.4	2949.2	2708.5	2660.3	2672.4	2687.4	2684.4
9570.0	20°	9040.3	8179.6	5567.4	3418.7	2666.3	2552.0	2524.9	2536.9	2549.0	2543.0
10223.0	22.5°	9560.9	8444.4	5137.1	2994.4	2476.8	2407.5	2377.4	2380.5	2380.5	2368.4
11050.6	25°	10183.9	8736.4	4685.7	2693.4	2332.3	2278.1	2242.0	2230.0	2211.9	2175.8
12055.7	27.5°	10927.2	9046.3	4252.3	2482.8	2217.9	2166.8	2124.7	2094.6	2049.4	1989.2
13262.5	30°	11763.8	9422.5	3885.2	2350.4	2127.7	2076.5	2028.4	1983.2	1917.0	1841.8
14649.9	32.5°	12747.9	9825.8	3617.3	2263.1	2046.4	1992.2	1935.1	1880.9	1808.7	1733.4
16208.7	35°	13921.6	10313.3	3460.8	2202.9	1983.2	1911.0	1847.8	1787.6	1733.4	1667.2
17903.1	37.5°	15194.6	10830.9	3412.7	2172.8	1941.1	1829.7	1757.5	1715.4	1709.4	1670.2
19735.8	40°	16587.9	11444.8	3448.8	2154.7	1895.9	1751.5	1673.2	1664.2	1679.3	1610.0
21694.9	42.5°	18062.6	12173.1	3509.0	2133.7	1832.7	1673.2	1598.0	1598.0	1586.0	1489.7
23765.4	45°	19657.5	13012.7	3569.2	2082.5	1757.5	1595.0	1537.8	1516.7	1465.6	1372.3
25847.9	47.5°	21264.6	13867.4	3614.3	1989.2	1667.2	1528.8	1477.6	1429.5	1354.2	1270.0
27891.3	50°	22790.4	14634.8	3566.2	1850.8	1564.9	1465.6	1411.4	1345.2	1264.0	1206.8
29826.4	52.5°	24153.6	15299.9	3361.5	1688.3	1456.6	1399.4	1351.2	1282.0	1215.8	1155.6
31571.8	55°	25339.3	15838.6	3000.4	1534.8	1360.3	1342.2	1294.1	1206.8	1116.5	1065.3
33302.3	57.5°	26476.9	16247.9	2549.0	1408.4	1273.0	1279.0	1206.8	1128.5	1044.3	990.1
35634.6	60°	27990.6	16795.6	2091.5	1291.0	1179.7	1197.7	1119.5	1062.3	957.0	887.8
39634.1	62.5°	30410.2	17647.2	1661.2	1146.6	1071.4	1077.4	1044.3	975.1	848.7	767.4
42598.4	65°	32330.2	17334.3	1309.1	990.1	948.0	957.0	957.0	881.8	746.3	653.0
42757.9	67.5°	32113.5	14842.5	1044.3	836.6	830.6	836.6	857.7	794.5	662.1	586.8
39501.7	70°	29582.6	11806.0	836.6	695.2	722.3	707.2	767.4	725.3	595.9	520.6
30623.9	72.5°	24138.6	8504.6	638.0	574.8	553.7	577.8	692.2	653.0	496.6	412.3
16220.8	75°	14105.2	4538.2	475.5	454.4	400.3	481.5	613.9	556.7	379.2	304.0
4971.6	77.5°	4592.4	1583.0	349.1	334.0	297.9	388.2	523.6	469.5	310.0	240.8
1456.6	80°	1230.9	478.5	237.7	219.7	192.6	288.9	415.3	373.2	222.7	156.5
626.0	82.5°	493.5	201.6	138.4	123.4	105.3	198.6	328.0	300.9	165.5	99.3
195.6	85°	159.5	66.2	51.2	39.1	48.2	123.4	195.6	204.6	117.4	51.2
30.1	87.5°	21.1	9.0	9.0	12.0	9.0	21.1	60.2	57.2	33.1	6.0
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>
6924.7
6106.1
4941.5
3822.0
3120.8
2865.0
2777.7
2678.4
2540.0
2362.4
2169.8
1983.2
1835.7
1736.4
1661.2
1667.2
1613.1
1489.7
1369.3
1267.0
1197.7
1149.6
1059.3
984.1
878.8
761.4
644.0
574.8
511.6
403.3
294.9
231.7
153.5
99.3
39.1
0.0
0.0

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