

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: P943894

Luminaire Tested: **GALN-SB8C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943894
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-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 39735 lumens
Efficiency: N/A
Efficacy: 99.4 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

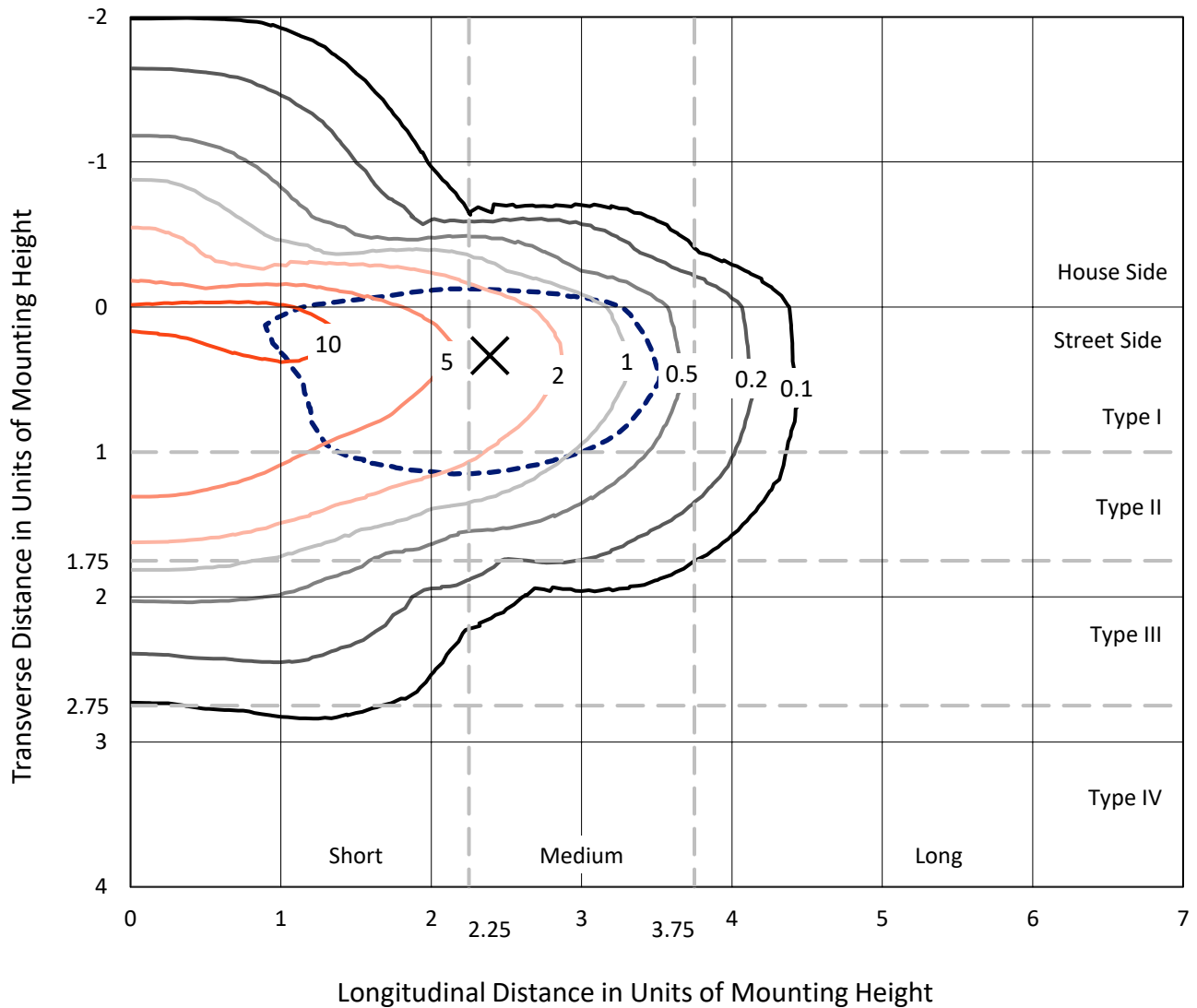
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943894
 CATALOG NUMBER: GALN-SB8C-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

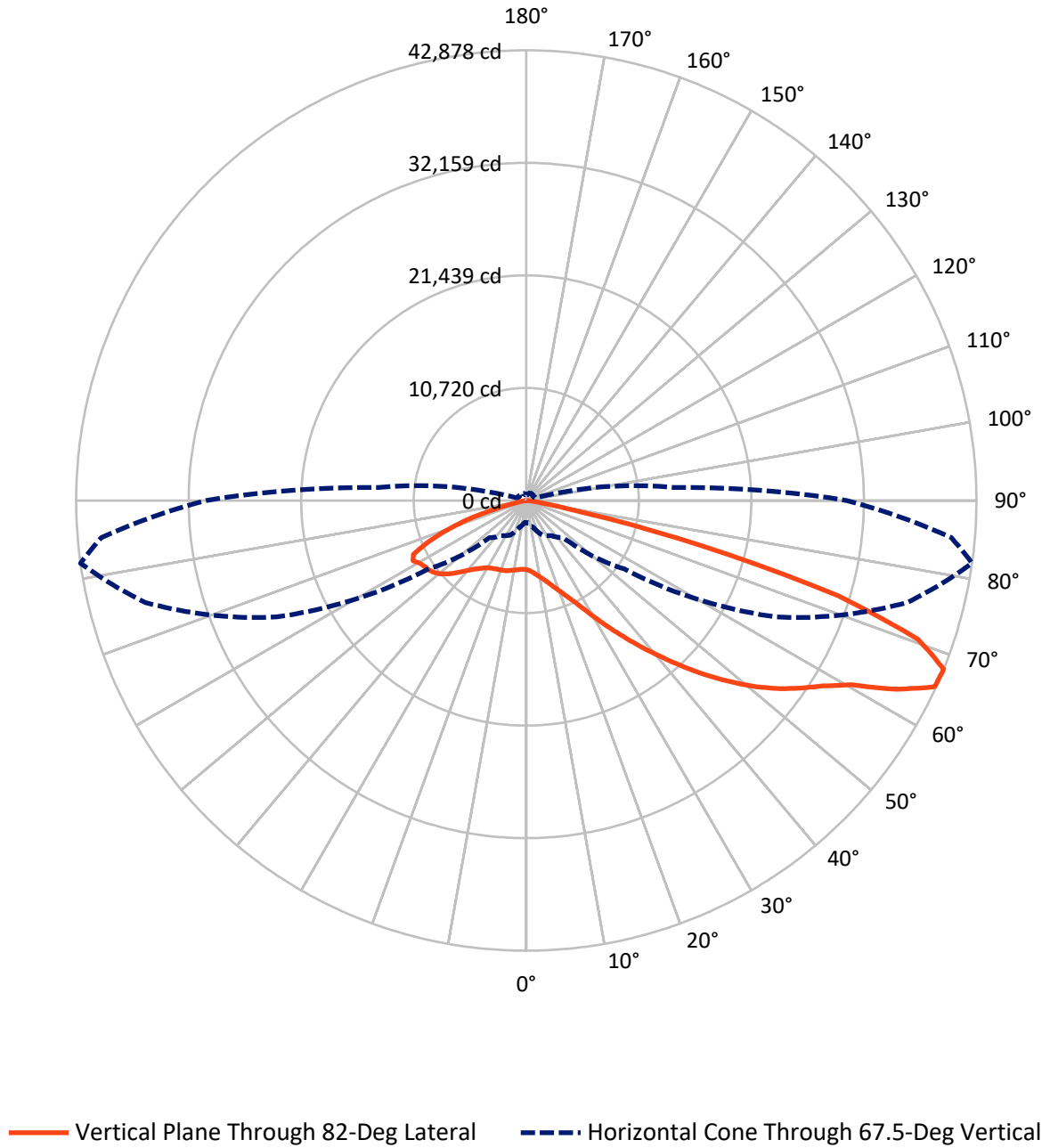
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P943894
CATALOG NUMBER: GALN-SB8C-830-U-T2-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7197.6	0.0	7197.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32537.4	0.0	32537.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	39735.0	0.0	39735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	1.5
10°-20°	1524.0	3.8
20°-30°	2441.0	6.1
30°-40°	4316.4	10.9
40°-50°	7562.7	19.0
50°-60°	10086.6	25.4
60°-70°	9390.1	23.6
70°-80°	3603.9	9.1
80°-90°	223.8	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°	39735.0	100.0
0°-180°	39735.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943894

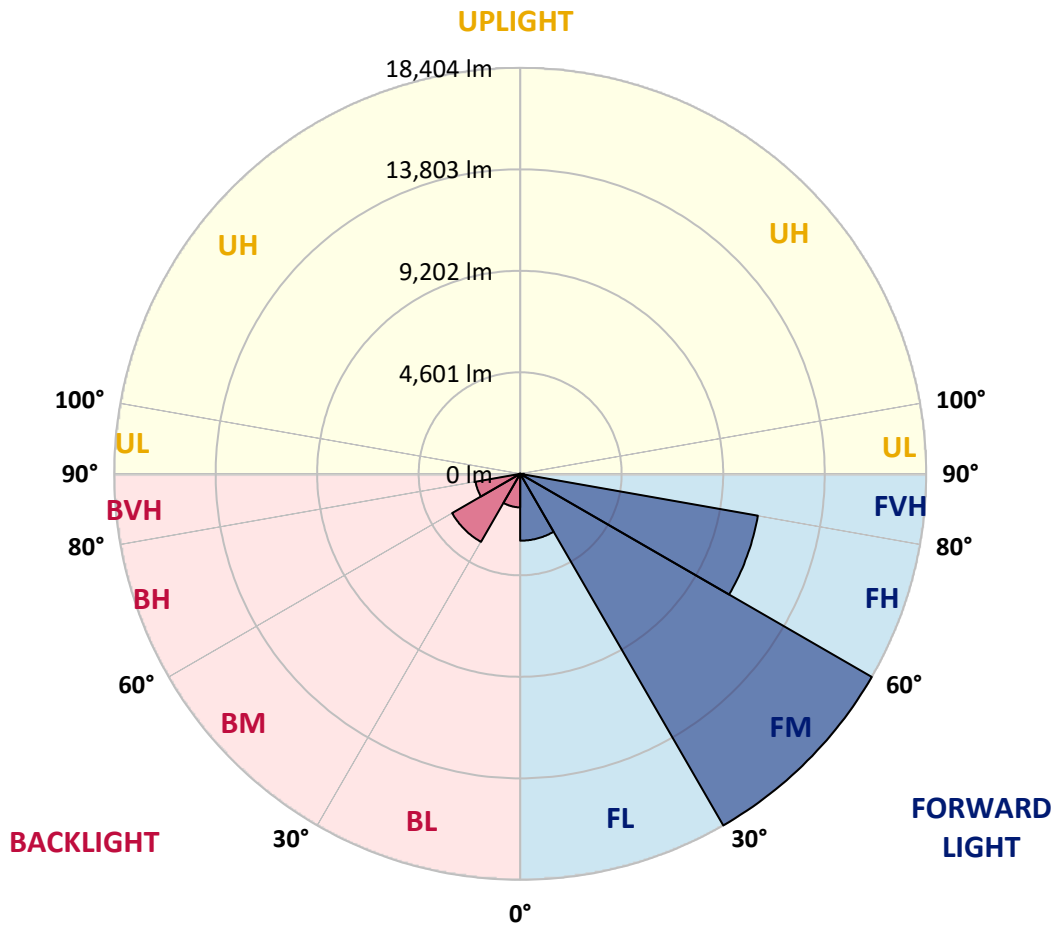
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3031.3	7.6			
FM (30°-60°)	18403.6	46.3			
FH (60°-80°)	10939.7	27.5			G4/12000
FVH (80°-90°)	162.7	0.4			G2/225
BL (0°-30°)	1520.1	3.8	B3/2500		
BM (30°-60°)	3562.1	9.0	B3/5000		
BH (60°-80°)	2054.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	61.1	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



REPORT NUMBER: P943894
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7
2.5°	6957.5	6997.6	6974.7	6963.2	6943.2	6914.6	6891.7	6820.2	6745.8	6697.2
5°	7097.7	7137.7	7134.9	7146.3	7160.6	7169.2	7163.5	7083.4	6977.5	6894.6
7.5°	6977.5	7023.3	7060.5	7117.7	7217.8	7323.7	7375.2	7358.0	7249.3	7134.9
10°	6637.1	6685.7	6774.4	6908.9	7120.6	7349.4	7541.1	7629.8	7561.1	7435.3
12.5°	6013.4	6062.1	6236.6	6528.4	6883.1	7280.8	7647.0	7884.4	7901.6	7775.7
15°	5312.5	5361.2	5547.1	5913.3	6454.0	7092.0	7704.2	8153.3	8305.0	8196.2
17.5°	4877.7	4920.6	5060.8	5355.5	5919.0	6714.3	7684.2	8439.4	8785.6	8699.8
20°	4746.1	4783.3	4849.1	5055.1	5524.2	6322.4	7552.6	8708.3	9303.4	9254.7
22.5°	4886.3	4920.6	4940.6	5032.2	5326.8	6064.9	7386.6	8983.0	9904.2	9909.9
25°	5209.6	5243.9	5221.0	5278.2	5406.9	5984.8	7323.7	9306.2	10659.4	10722.4
27.5°	5741.7	5744.5	5690.2	5687.3	5707.3	6105.0	7389.5	9652.4	11612.1	11729.4
30°	6808.7	6765.8	6557.0	6331.0	6228.0	6465.5	7572.6	10061.5	12736.4	12945.2
32.5°	8453.7	8390.8	8007.4	7466.7	6923.2	7046.2	7901.6	10527.8	13960.8	14338.4
35°	10238.9	10221.7	9821.2	9017.3	8067.5	7873.0	8436.6	11140.0	15296.8	15897.6
37.5°	11898.1	11889.6	11660.7	10713.8	9558.0	9025.9	9294.8	11941.1	16727.2	17596.9
40°	13414.4	13440.1	13211.3	12364.5	11200.1	10504.9	10462.0	12930.9	18317.8	19447.8
42.5°	14724.6	14753.2	14521.5	13895.0	12822.2	12141.3	11895.3	14143.9	19871.2	21436.1
45°	15614.4	15791.7	15757.4	15256.7	14487.2	13780.6	13617.5	15665.8	21642.1	23544.5
47.5°	15866.1	16029.2	16286.6	16355.3	15886.1	15190.9	15385.5	17499.6	23433.0	25655.8
50°	15245.3	15396.9	15931.9	16644.2	16970.4	16755.8	17104.8	19465.0	25266.8	27761.4
52.5°	14020.9	14175.4	14850.5	15977.7	17308.0	17983.1	18829.9	21401.8	27043.3	29755.4
55°	12250.0	12413.1	13279.9	14555.8	16664.3	18489.5	20268.9	23335.7	28671.1	31549.1
57.5°	9841.2	9961.4	10862.5	12647.7	15045.0	17986.0	21330.3	25447.0	30204.5	33311.4
60°	6414.0	6519.8	7566.9	9558.0	12361.6	16303.8	21542.0	27801.4	32241.4	35602.9
62.5°	4265.5	4337.0	4957.8	6419.7	8705.5	13073.9	20303.2	29681.0	35228.1	39590.9
65°	2926.6	2998.1	3618.9	4637.4	5624.4	8648.3	16741.5	29432.1	37934.5	42757.8
67.5°	2088.4	2148.5	2674.9	3636.1	4070.9	5023.6	11348.9	26250.9	37545.4	42878.0
70°	1496.2	1530.5	1965.4	2832.2	3235.6	3018.2	6311.0	20077.2	32873.7	39593.7
72.5°	1047.1	1058.5	1364.6	2157.1	2606.2	2202.8	3003.9	13385.8	24863.4	31077.1
75°	709.5	723.8	918.3	1582.0	2091.3	1682.2	1590.6	7177.8	14595.9	17202.1
77.5°	434.8	440.6	592.2	1081.4	1564.9	1281.6	1024.2	3041.1	5647.3	5544.3
80°	246.0	246.0	377.6	672.3	1067.1	826.8	718.1	1293.1	1788.0	1570.6
82.5°	137.3	140.2	274.6	417.7	706.6	489.2	394.8	597.9	772.4	683.7
85°	57.2	62.9	168.8	197.4	337.6	243.2	160.2	251.8	286.1	254.6
87.5°	5.7	8.6	51.5	37.2	40.1	48.6	22.9	48.6	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943894
 CATALOG NUMBER: GALN-SB8C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6582.7	0°	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7	6582.7
6680.0	2.5°	6625.7	6582.7	6474.0	6348.2	6182.2	6102.1	5993.4	5919.0	5856.1	5861.8
6845.9	5°	6754.4	6645.7	6402.5	6099.3	5721.6	5452.7	5166.6	4969.2	4809.0	4774.7
7074.8	7.5°	6931.8	6760.1	6333.9	5787.4	5149.5	4666.0	4234.0	3956.5	3759.1	3696.2
7352.3	10°	7160.6	6911.7	6245.2	5395.5	4477.2	3862.1	3398.7	3181.2	3046.8	3001.0
7678.4	12.5°	7426.7	7086.2	6127.9	4917.7	3784.9	3192.7	2898.0	2789.3	2746.4	2732.1
8079.0	15°	7761.4	7303.7	5950.5	4351.3	3198.4	2783.6	2657.7	2643.4	2649.1	2643.4
8559.6	17.5°	8159.1	7541.1	5661.6	3767.7	2803.6	2574.7	2529.0	2540.4	2554.7	2551.9
9097.4	20°	8593.9	7775.7	5292.5	3249.9	2534.7	2426.0	2400.2	2411.7	2423.1	2417.4
9718.2	22.5°	9088.8	8027.5	4883.4	2846.5	2354.5	2288.7	2260.0	2262.9	2262.9	2251.5
10504.9	25°	9681.0	8305.0	4454.3	2560.4	2217.1	2165.6	2131.3	2119.9	2102.7	2068.4
11460.4	27.5°	10387.6	8599.6	4042.3	2360.2	2108.4	2059.8	2019.7	1991.1	1948.2	1891.0
12607.6	30°	11182.9	8957.2	3693.3	2234.3	2022.6	1974.0	1928.2	1885.3	1822.3	1750.8
13926.5	32.5°	12118.4	9340.6	3438.7	2151.3	1945.4	1893.9	1839.5	1788.0	1719.4	1647.8
15408.4	35°	13234.1	9804.0	3289.9	2094.1	1885.3	1816.6	1756.5	1699.3	1647.8	1584.9
17019.0	37.5°	14444.3	10296.1	3244.2	2065.5	1845.2	1739.4	1670.7	1630.7	1624.9	1587.8
18761.3	40°	15768.8	10879.7	3278.5	2048.3	1802.3	1665.0	1590.6	1582.0	1596.3	1530.5
20623.6	42.5°	17170.6	11572.0	3335.7	2028.3	1742.2	1590.6	1519.1	1519.1	1507.7	1416.1
22591.9	45°	18686.9	12370.2	3392.9	1979.7	1670.7	1516.2	1461.9	1441.9	1393.2	1304.5
24571.6	47.5°	20214.5	13182.7	3435.8	1891.0	1584.9	1453.3	1404.7	1358.9	1287.4	1207.3
26514.1	50°	21665.0	13912.2	3390.1	1759.4	1487.6	1393.2	1341.7	1278.8	1201.5	1147.2
28353.6	52.5°	22960.9	14544.4	3195.5	1604.9	1384.6	1330.3	1284.5	1218.7	1155.8	1098.6
30012.9	55°	24088.1	15056.5	2852.2	1459.0	1293.1	1275.9	1230.2	1147.2	1061.4	1012.7
31657.8	57.5°	25169.5	15445.6	2423.1	1338.9	1210.1	1215.8	1147.2	1072.8	992.7	941.2
33875.0	60°	26608.5	15966.2	1988.3	1227.3	1121.4	1138.6	1064.2	1009.9	909.7	843.9
37677.0	62.5°	28908.6	16775.8	1579.2	1090.0	1018.5	1024.2	992.7	926.9	806.8	729.5
40494.9	65°	30733.8	16478.3	1244.5	941.2	901.2	909.7	909.7	838.2	709.5	620.8
40646.5	67.5°	30527.8	14109.6	992.7	795.3	789.6	795.3	815.3	755.3	629.4	557.9
37551.1	70°	28121.9	11223.0	795.3	660.8	686.6	672.3	729.5	689.5	566.4	494.9
29111.7	72.5°	22946.6	8084.7	606.5	546.4	526.4	549.3	658.0	620.8	472.0	391.9
15419.8	75°	13408.7	4314.1	452.0	432.0	380.5	457.7	583.6	529.3	360.5	288.9
4726.1	77.5°	4365.6	1504.8	331.9	317.6	283.2	369.0	497.8	446.3	294.7	228.9
1384.6	80°	1170.1	454.9	226.0	208.8	183.1	274.6	394.8	354.7	211.7	148.8
595.1	82.5°	469.2	191.7	131.6	117.3	100.1	188.8	311.8	286.1	157.3	94.4
186.0	85°	151.6	62.9	48.6	37.2	45.8	117.3	186.0	194.5	111.6	48.6
28.6	87.5°	20.0	8.6	8.6	11.4	8.6	20.0	57.2	54.4	31.5	5.7
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>
6582.7
5804.6
4697.5
3633.2
2966.7
2723.5
2640.5
2546.1
2414.5
2245.7
2062.7
1885.3
1745.1
1650.7
1579.2
1584.9
1533.4
1416.1
1301.7
1204.4
1138.6
1092.8
1007.0
935.5
835.4
723.8
612.2
546.4
486.3
383.3
280.4
220.3
145.9
94.4
37.2
0.0
0.0

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