

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: P951695

Luminaire Tested: **GALN-SB5D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39596 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

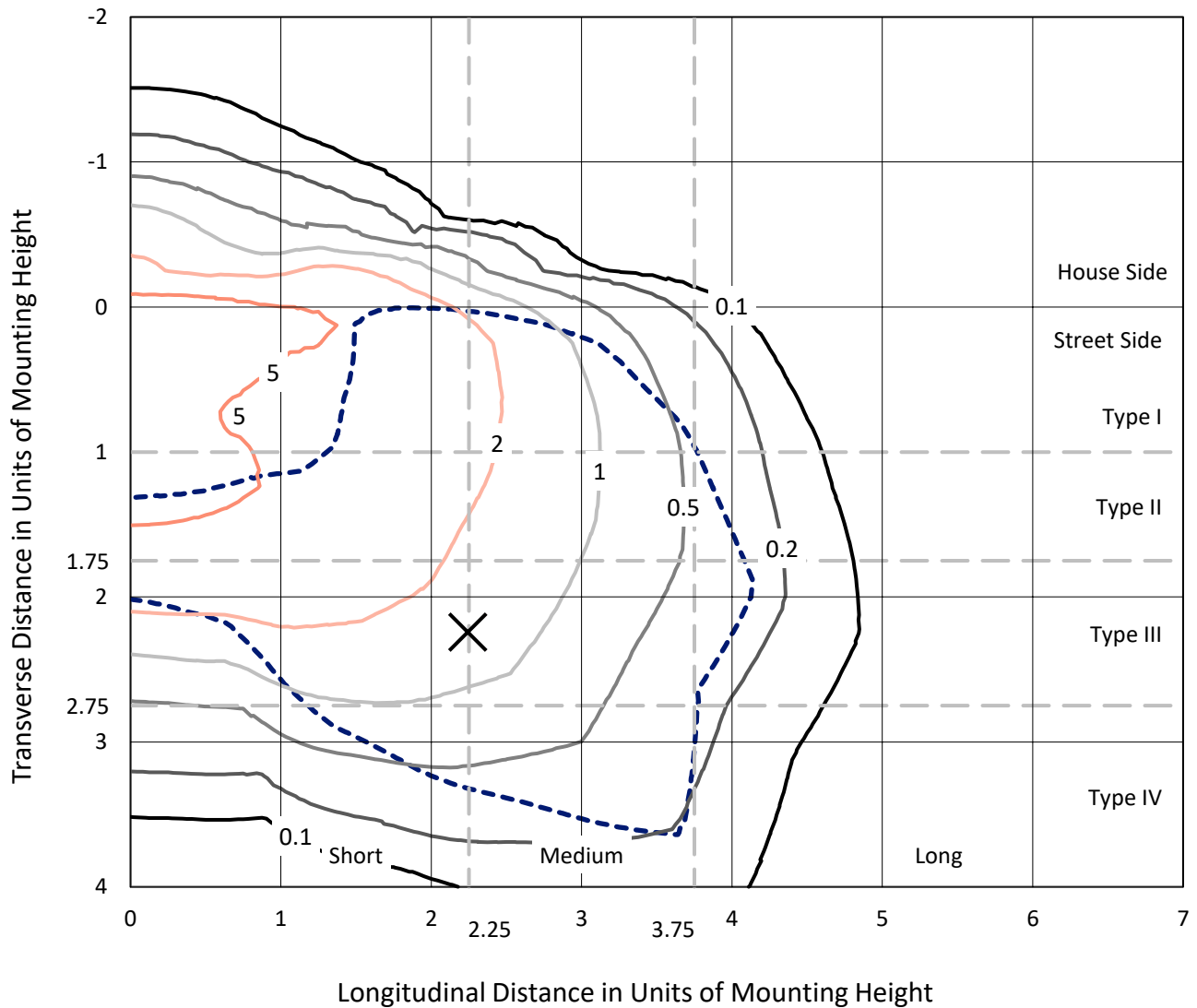
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

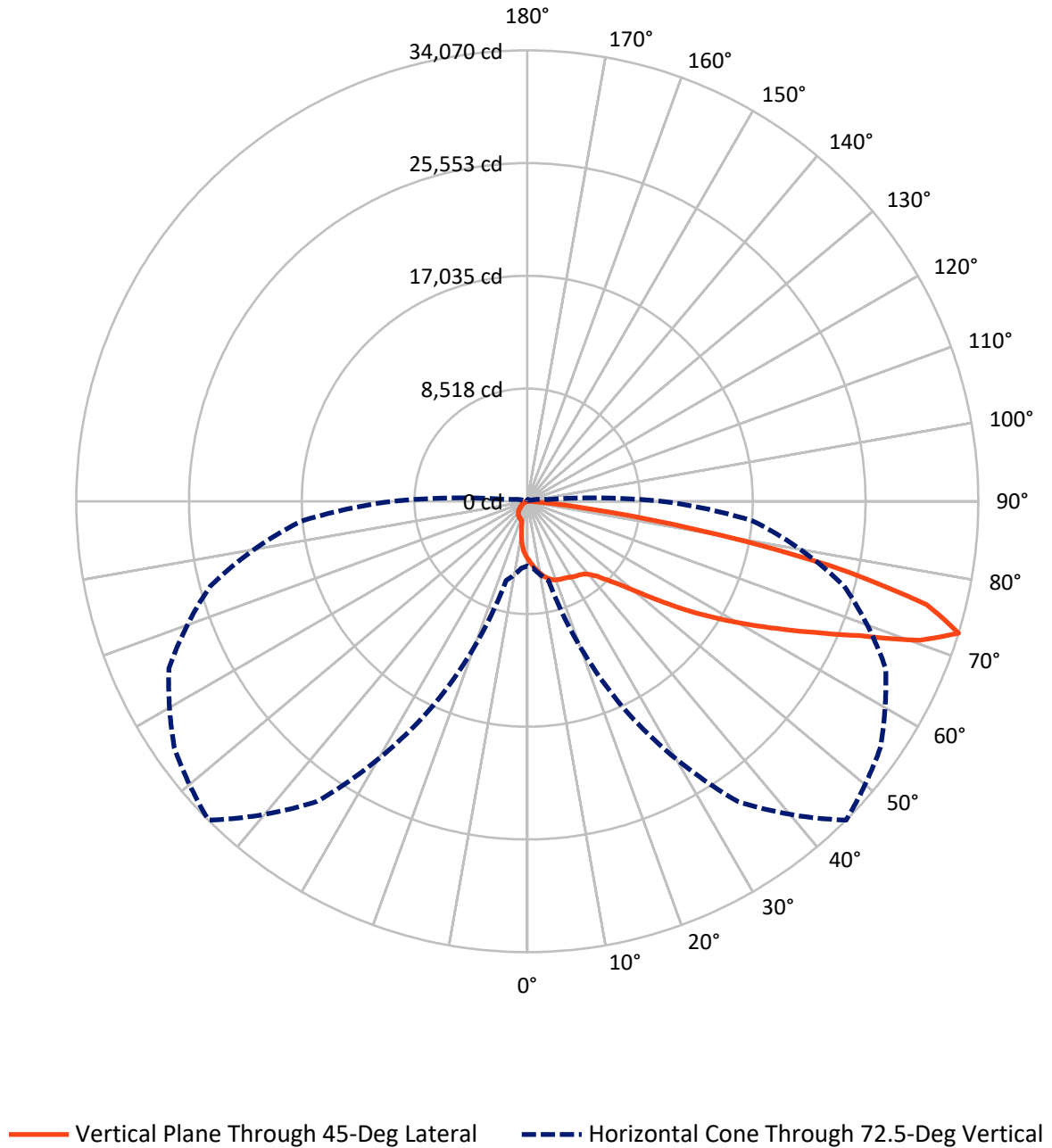
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4160.4	0.0	4160.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35435.6	0.0	35435.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	39596.0	0.0	39596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.0
10°-20°	1194.5	3.0
20°-30°	1961.5	5.0
30°-40°	2781.9	7.0
40°-50°	4598.2	11.6
50°-60°	8260.2	20.9
60°-70°	11469.7	29.0
70°-80°	8319.8	21.0
80°-90°	601.5	1.5
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°	39596.0	100.0
0°-180°	39596.0	100.0

Coefficient of Utilization



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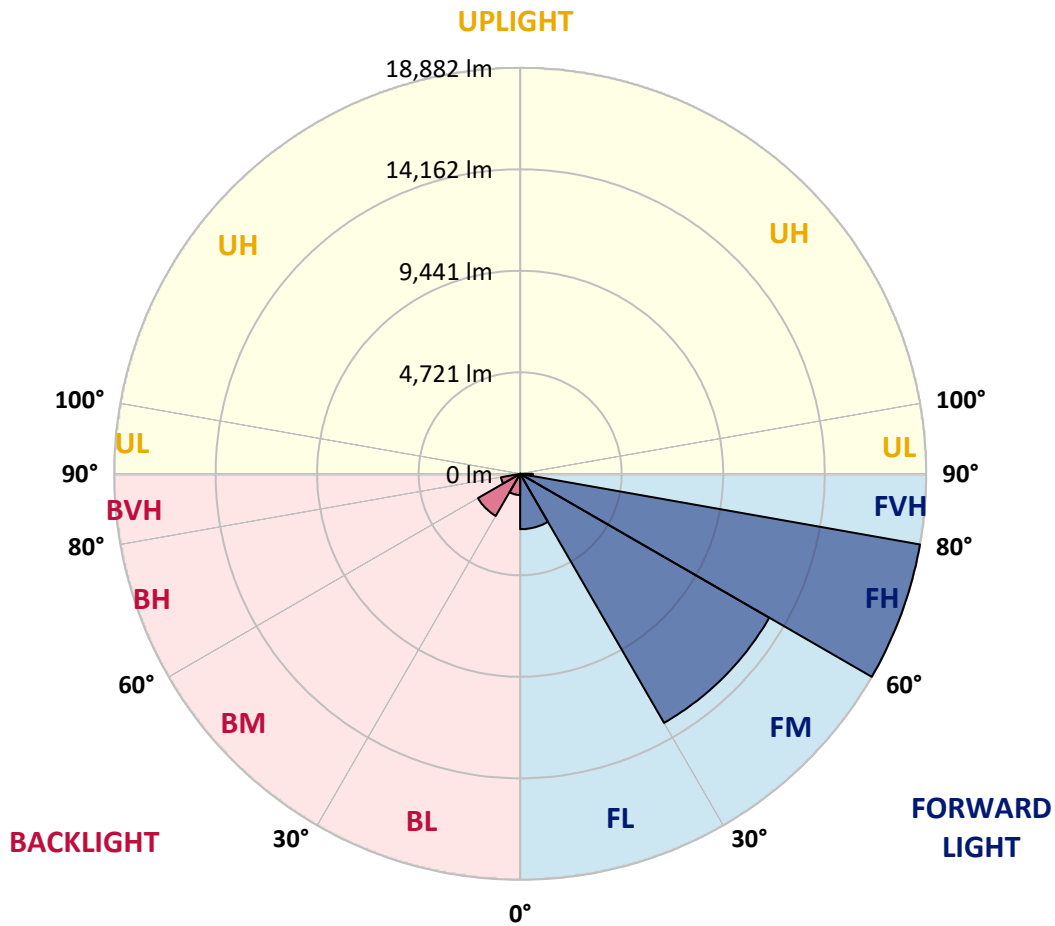
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.3	6.5			
FM (30°-60°)	13377.6	33.8			
FH (60°-80°)	18882.2	47.7			G5
FVH (80°-90°)	596.4	1.5			G4/750
BL (0°-30°)	985.4	2.5	B2/1000		
BM (30°-60°)	2262.7	5.7	B2/2500		
BH (60°-80°)	907.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
2.5°	4737.8	4745.9	4740.5	4708.1	4654.0	4624.3	4608.1	4554.0	4518.9	4456.7
5°	5173.0	5205.4	5186.5	5121.6	5018.9	4945.9	4924.3	4813.5	4713.5	4597.3
7.5°	5635.1	5651.3	5616.2	5532.4	5394.6	5270.3	5251.3	5097.3	4937.8	4759.4
10°	6035.1	6054.0	6000.0	5878.4	5721.6	5567.6	5540.5	5370.3	5181.1	4962.1
12.5°	6370.3	6389.2	6318.9	6173.0	6000.0	5840.5	5813.5	5635.1	5427.0	5183.8
15°	6624.3	6659.4	6564.8	6408.1	6221.6	6062.1	6048.6	5873.0	5670.3	5400.0
17.5°	6773.0	6808.1	6718.9	6529.7	6370.3	6235.1	6218.9	6073.0	5883.8	5624.3
20°	6797.3	6829.7	6735.1	6570.3	6437.8	6329.7	6321.6	6216.2	6078.4	5829.7
22.5°	6724.3	6764.8	6678.4	6545.9	6454.0	6397.3	6386.5	6327.0	6248.6	6037.8
25°	6648.6	6681.1	6616.2	6500.0	6451.3	6445.9	6454.0	6443.2	6427.0	6248.6
27.5°	6643.2	6678.4	6605.4	6494.6	6467.5	6524.3	6532.4	6583.8	6597.3	6440.5
30°	6689.2	6713.5	6643.2	6527.0	6513.5	6643.2	6645.9	6737.8	6759.4	6602.7
32.5°	6789.2	6816.2	6745.9	6575.7	6556.7	6737.8	6745.9	6867.5	6902.7	6775.7
35°	7024.3	7056.7	6975.7	6710.8	6643.2	6827.0	6851.3	6994.6	7064.8	6959.4
37.5°	7610.8	7516.2	7405.4	6983.8	6840.5	6967.5	7008.1	7175.7	7300.0	7178.4
40°	9067.5	8770.2	8424.3	7448.6	7186.5	7267.5	7300.0	7467.5	7637.8	7518.9
42.5°	11254.0	10902.7	10345.9	8518.9	7708.1	7748.6	7773.0	7918.9	8159.4	8064.8
45°	13202.7	13075.6	12508.1	10345.9	8683.8	8483.8	8513.5	8589.2	8943.2	8908.1
47.5°	14700.0	14627.0	14189.2	12443.2	10332.4	9383.8	9467.5	9502.7	10013.5	10137.8
50°	15851.3	15824.3	15432.4	14308.1	12486.5	10710.8	10740.5	10664.8	11429.7	11737.8
52.5°	16937.8	17029.7	16740.5	16040.5	14786.4	12448.6	12443.2	12086.5	13118.9	13583.7
55°	17918.9	17951.3	17981.0	17808.1	17100.0	14427.0	14375.6	13791.9	15078.3	15559.4
57.5°	18840.5	18854.0	19118.9	19472.9	19508.1	16551.3	16456.7	15756.7	17218.9	17562.1
60°	19459.4	19521.6	20081.0	21064.8	21494.5	18743.2	18691.8	17978.3	19397.2	19556.7
62.5°	18567.5	18945.9	20356.7	22308.0	23370.2	21172.9	21148.6	20478.3	21689.1	21559.4
65°	15029.7	15670.2	18151.3	23148.6	25210.7	23886.4	23921.6	23208.0	24043.2	23621.6
67.5°	10513.5	11189.2	14124.3	23216.2	27267.5	27072.9	27275.6	26156.7	26543.2	25597.2
70°	7270.3	7618.9	9529.7	21762.1	28870.2	31462.1	31456.7	29778.3	29029.7	26497.2
72.5°	4889.2	5070.3	6189.2	17264.8	27691.8	34070.2	33913.4	32545.9	29867.5	24781.0
75°	2062.2	2194.6	2864.9	9702.7	21908.0	31170.2	30745.9	28762.1	26537.8	19513.5
77.5°	654.1	710.8	1129.7	3473.0	12067.5	23429.7	22981.0	17962.1	17786.4	9789.2
80°	310.8	362.2	635.1	1394.6	4748.6	12743.2	12681.0	8148.6	7651.3	2643.2
82.5°	135.1	159.5	351.4	745.9	2124.3	4545.9	4637.8	2773.0	2294.6	1002.7
85°	43.2	56.8	162.2	343.2	897.3	1129.7	1116.2	659.5	924.3	545.9
87.5°	0.0	0.0	54.1	78.4	91.9	64.9	73.0	56.8	256.8	151.4
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°
4337.8	0°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
4391.9	2.5°	4359.4	4316.2	4240.5	4170.3	4108.1	4045.9	4008.1	3954.0	3948.6	3948.6
4462.2	5°	4389.2	4318.9	4183.8	4040.5	3875.7	3718.9	3562.2	3410.8	3362.2	3327.0
4575.7	7.5°	4475.7	4364.9	4151.3	3878.4	3564.9	3221.6	2981.1	2721.6	2621.6	2567.6
4727.0	10°	4600.0	4448.6	4124.3	3645.9	3137.8	2670.3	2327.0	2045.9	1937.8	1891.9
4891.9	12.5°	4737.8	4551.3	4075.7	3356.7	2670.3	2110.8	1775.7	1645.9	1629.7	1629.7
5089.2	15°	4902.7	4675.7	3991.9	3016.2	2181.1	1670.3	1551.3	1556.8	1573.0	1583.8
5281.1	17.5°	5073.0	4808.1	3859.4	2635.1	1748.6	1502.7	1505.4	1513.5	1527.0	1537.8
5489.2	20°	5256.7	4940.5	3683.8	2229.7	1500.0	1454.1	1462.2	1470.3	1481.1	1486.5
5683.8	22.5°	5454.0	5064.9	3475.7	1832.4	1416.2	1413.5	1416.2	1424.3	1437.8	1437.8
5910.8	25°	5664.8	5202.7	3237.8	1543.2	1373.0	1373.0	1378.4	1383.8	1394.6	1394.6
6129.7	27.5°	5881.1	5329.7	2986.5	1391.9	1335.1	1332.4	1332.4	1340.5	1345.9	1348.6
6345.9	30°	6118.9	5478.4	2735.1	1359.5	1305.4	1291.9	1283.8	1289.2	1294.6	1297.3
6573.0	32.5°	6362.1	5621.6	2510.8	1373.0	1275.7	1251.3	1224.3	1218.9	1218.9	1229.7
6808.1	35°	6632.4	5778.4	2337.8	1418.9	1259.5	1191.9	1148.6	1124.3	1127.0	1143.2
7089.2	37.5°	6956.7	5967.6	2210.8	1459.5	1248.6	1124.3	1054.1	1024.3	1005.4	1024.3
7475.7	40°	7381.1	6245.9	2118.9	1491.9	1235.1	1045.9	951.3	902.7	867.6	878.4
8075.7	42.5°	8005.4	6683.8	2083.8	1494.6	1205.4	954.1	845.9	781.1	729.7	732.4
8978.4	45°	8881.1	7375.7	2264.9	1459.5	1140.5	854.1	735.1	648.6	616.2	608.1
10327.0	47.5°	10081.1	8383.8	2683.8	1386.5	1045.9	756.8	627.0	554.1	529.7	516.2
12097.3	50°	11689.2	9678.4	3148.6	1305.4	951.3	664.9	537.8	491.9	475.7	462.2
14197.3	52.5°	13554.0	10991.9	3529.7	1224.3	856.8	583.8	481.1	454.1	440.5	429.7
16224.3	55°	15264.8	11897.3	3508.1	1137.8	764.9	518.9	440.5	424.3	408.1	397.3
17970.2	57.5°	16329.7	12024.3	2891.9	1043.2	659.5	467.6	402.7	391.9	373.0	359.5
19481.0	60°	16818.9	11300.0	2027.0	918.9	554.1	418.9	362.2	356.8	332.4	313.5
20910.8	62.5°	16908.1	9954.0	1351.3	764.9	462.2	373.0	321.6	313.5	281.1	248.6
22072.9	65°	16545.9	8029.7	935.1	597.3	394.6	324.3	275.7	259.5	224.3	191.9
22348.6	67.5°	15400.0	5637.8	651.3	429.7	335.1	256.8	218.9	213.5	186.5	159.5
20943.2	70°	13300.0	3213.5	435.1	321.6	264.9	175.7	173.0	178.4	151.4	129.7
17110.8	72.5°	10197.3	1470.3	270.3	235.1	181.1	118.9	137.8	140.5	116.2	97.3
10675.6	75°	6002.7	629.7	170.3	151.4	91.9	78.4	100.0	102.7	78.4	62.2
3902.7	77.5°	2043.2	237.8	108.1	89.2	45.9	43.2	64.9	64.9	43.2	24.3
783.8	80°	464.9	89.2	54.1	35.1	21.6	18.9	21.6	18.9	10.8	2.7
240.5	82.5°	132.4	35.1	21.6	13.5	8.1	8.1	2.7	0.0	0.0	0.0
83.8	85°	37.8	16.2	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
29.7	87.5°	16.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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180°
4337.8
3962.2
3343.2
2575.7
1891.9
1629.7
1583.8
1537.8
1489.2
1443.2
1397.3
1351.3
1302.7
1237.8
1151.3
1018.9
873.0
721.6
597.3
508.1
459.5
427.0
391.9
356.8
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