

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: P956687

Luminaire Tested: **GALN-SB9B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43426 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

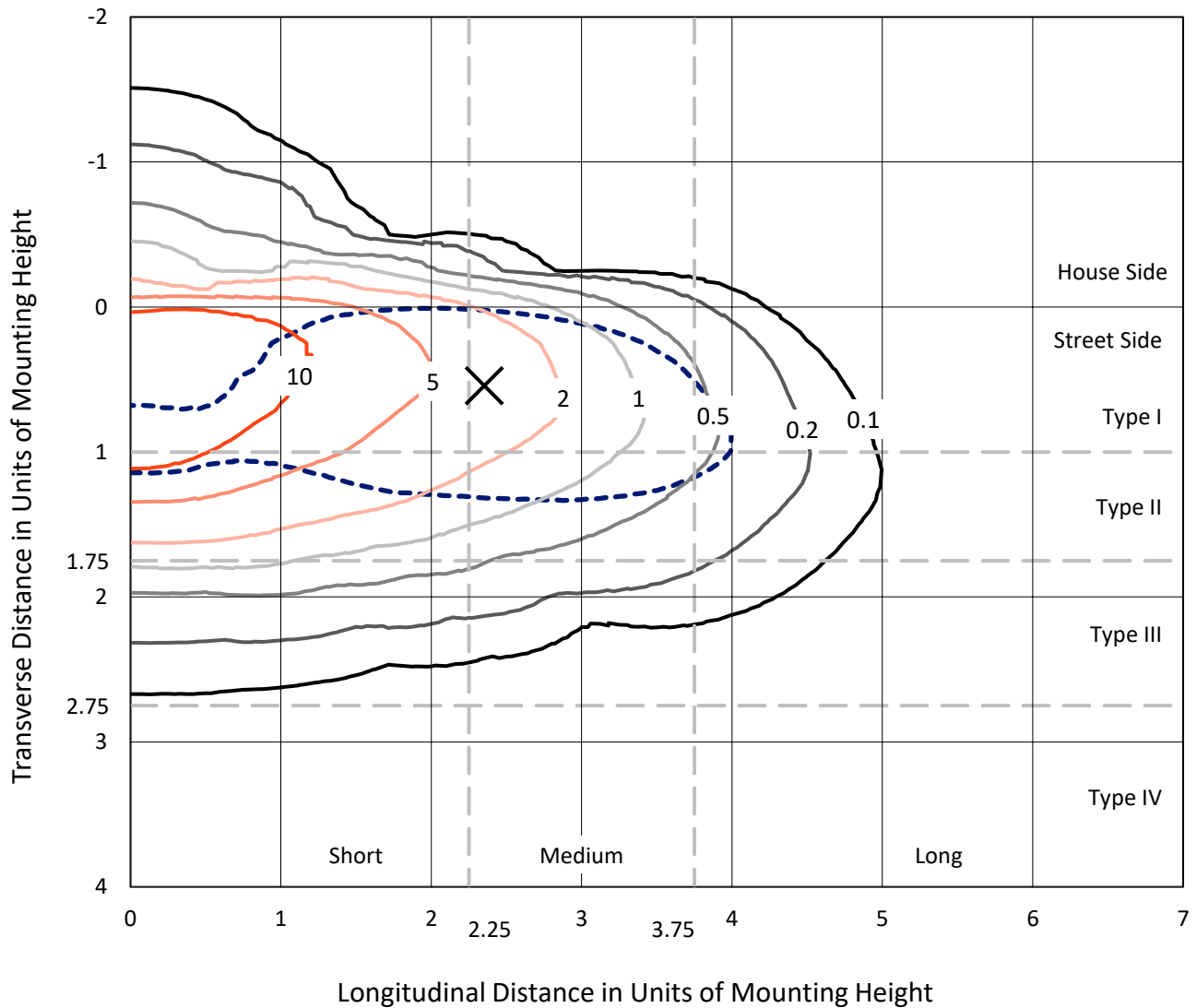
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

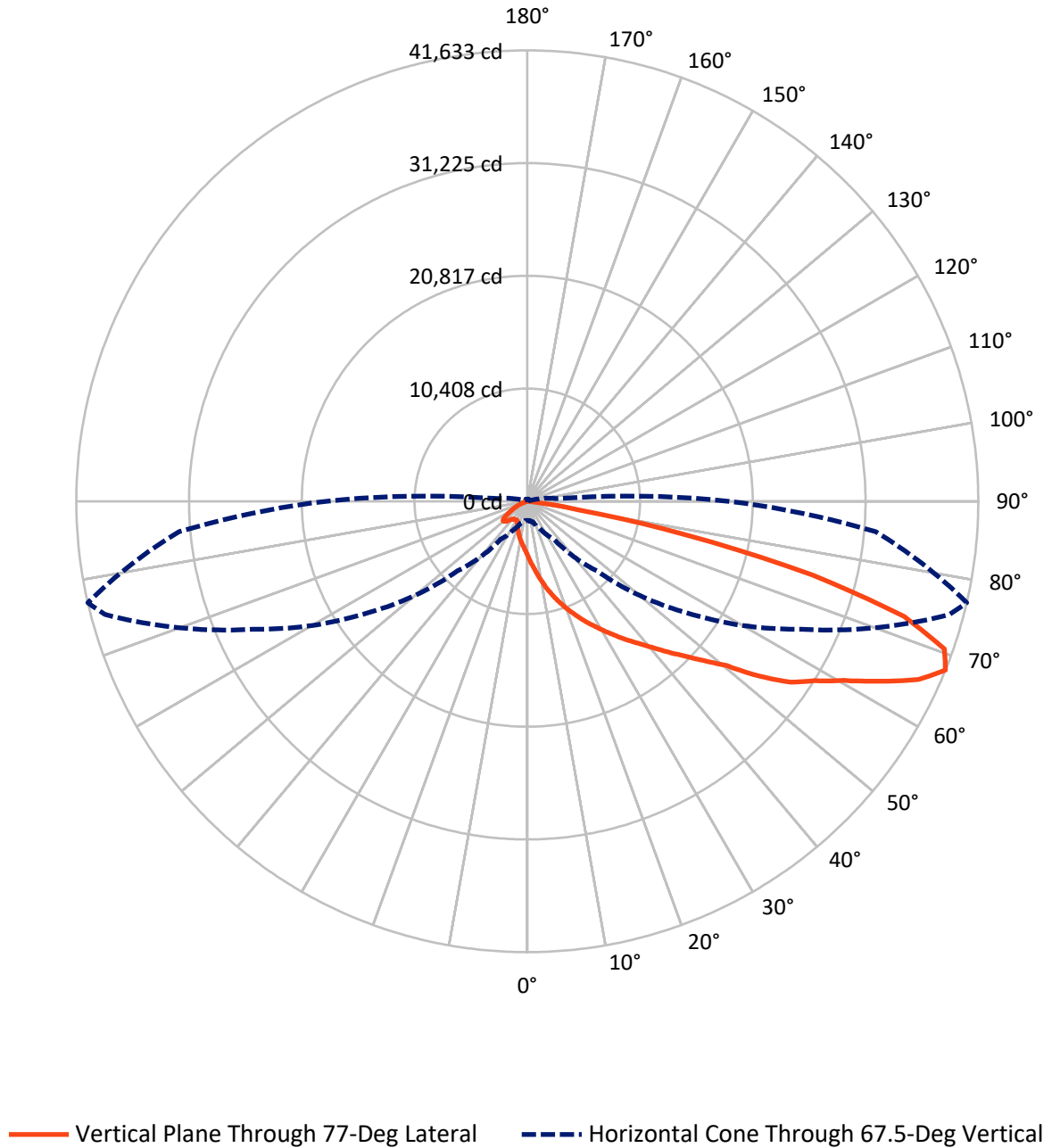
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3194.9	0.0	3194.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	40231.1	0.0	40231.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	43426.0	0.0	43426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.1	1.2
10°-20°	1789.9	4.1
20°-30°	3453.9	8.0
30°-40°	5996.2	13.8
40°-50°	8706.2	20.0
50°-60°	9998.0	23.0
60°-70°	8680.1	20.0
70°-80°	4088.4	9.4
80°-90°	202.2	0.5
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°	43426.0	100.0
0°-180°	43426.0	100.0

Coefficient of Utilization



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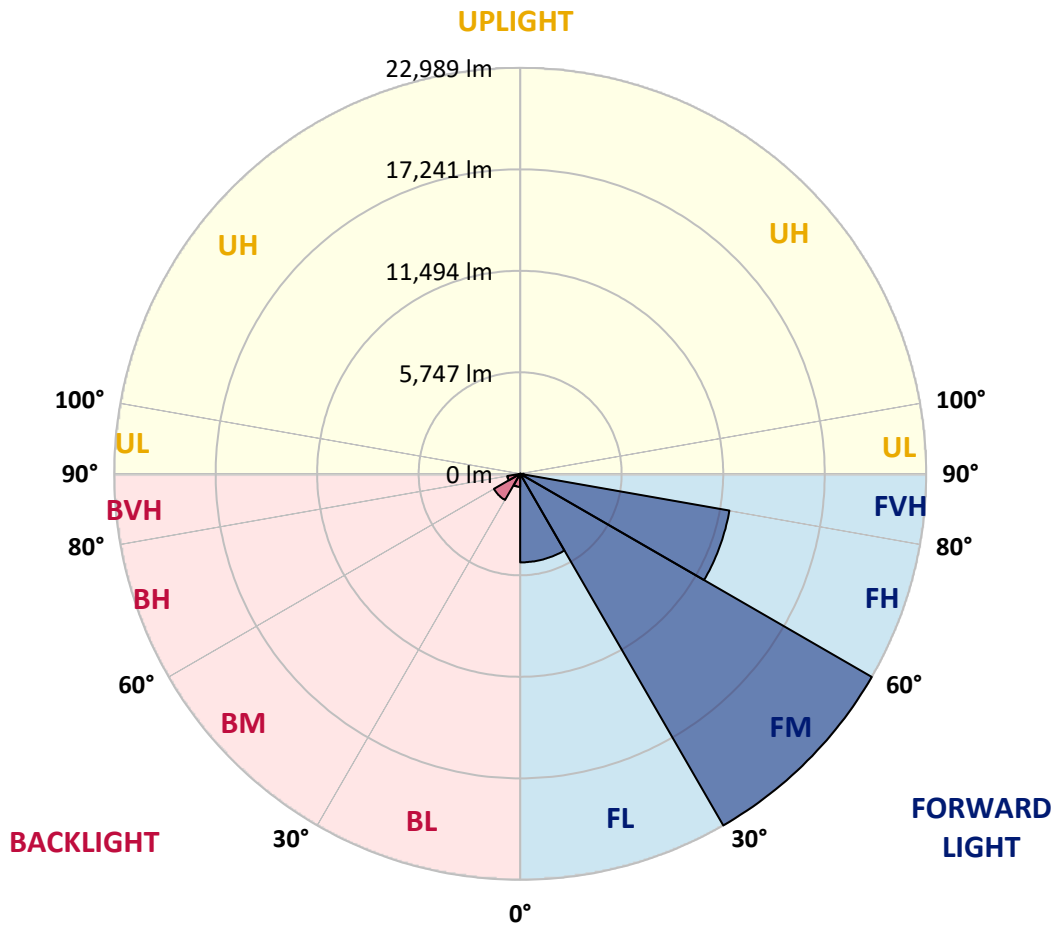
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5015.2	11.5			
FM (30°-60°)	22988.6	52.9			
FH (60°-80°)	12028.9	27.7			G5
FVH (80°-90°)	198.5	0.5			G2/225
BL (0°-30°)	739.7	1.7	B2/1000		
BM (30°-60°)	1711.8	3.9	B2/2500		
BH (60°-80°)	739.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7
2.5°	6933.1	6976.2	6914.2	6795.5	6617.5	6501.6	6218.4	5951.5	5654.8	5560.5
5°	8451.3	8489.0	8418.9	8289.5	8052.2	7825.6	7453.5	6895.3	6315.5	6129.5
7.5°	9575.8	9597.3	9570.4	9451.7	9225.2	8969.0	8553.7	7893.1	7032.8	6827.9
10°	10384.8	10454.9	10446.8	10400.9	10249.9	10042.3	9600.0	8847.7	7836.4	7572.2
12.5°	10921.4	10999.6	11045.4	11147.9	11139.8	11007.7	10619.4	9823.9	8637.3	8327.2
15°	11077.8	11161.4	11336.7	11574.0	11784.3	11851.7	11579.4	10781.2	9519.1	9122.7
17.5°	10988.8	11118.2	11328.6	11703.4	12164.5	12469.3	12439.6	11706.1	10320.0	9867.0
20°	11185.7	11309.7	11474.2	11789.7	12326.3	12879.1	13100.3	12590.6	11115.5	10640.9
22.5°	12275.1	12253.5	12269.7	12320.9	12641.8	13189.3	13645.0	13394.2	11903.0	11417.6
25°	14000.9	13903.9	13739.4	13461.6	13380.7	13645.0	14119.6	14106.1	12733.5	12213.1
27.5°	15980.3	15964.1	15578.5	14909.7	14532.2	14429.7	14656.2	14799.1	13556.0	13000.5
30°	17876.0	17919.2	17398.7	16654.4	15961.4	15559.6	15354.7	15457.1	14392.0	13849.9
32.5°	19526.4	19572.2	19005.9	18134.9	17277.4	16792.0	16360.5	16107.0	15303.4	14712.9
35°	20920.5	20966.4	20316.5	19353.8	18439.6	18000.1	17512.0	16818.9	16220.3	15670.2
37.5°	22166.4	22152.9	21281.9	20311.1	19413.1	19065.2	18809.0	17695.3	17164.1	16632.9
40°	22902.5	22959.2	22214.9	21144.3	20273.3	20019.8	20003.7	18782.1	18253.5	17738.5
42.5°	23118.3	23218.1	22678.7	21799.6	21009.5	20734.4	21157.8	19957.8	19521.0	19019.4
45°	22730.0	22827.0	22581.6	21972.2	21511.1	21333.1	22150.2	21176.7	20874.7	20378.5
47.5°	21597.4	21718.7	21778.0	21648.6	21643.2	21823.9	23040.1	22460.3	22481.9	21974.9
50°	19405.0	19609.9	20154.7	20613.1	21322.3	22212.2	23905.7	23851.8	24294.0	23857.2
52.5°	15419.4	15710.6	17587.5	18841.4	20435.1	22139.4	24857.6	26084.6	27473.3	26834.2
55°	12391.1	12391.1	13917.3	16263.4	18703.9	21659.4	25272.9	27535.4	29638.7	29487.7
57.5°	10101.6	10223.0	11196.4	13270.2	16198.7	20516.0	25529.1	28446.8	31383.5	31272.9
60°	6234.6	6496.2	8335.3	10382.1	13348.4	18480.1	25367.3	29369.1	33500.3	33589.3
62.5°	3511.0	3608.1	4427.9	7469.7	10379.4	15743.0	24129.5	29884.1	36207.8	36585.3
65°	2424.3	2472.8	2788.3	4649.0	7194.6	12534.0	21710.6	29563.2	38920.6	39683.7
67.5°	1760.9	1785.2	1982.0	2839.6	4268.8	9087.7	17919.2	27945.3	40357.9	41633.4
70°	1353.7	1369.9	1512.8	1866.1	2521.4	5609.0	13014.0	24728.2	39317.0	40840.6
72.5°	1100.2	1116.4	1227.0	1380.7	1671.9	3316.9	7887.7	20081.9	34721.9	36366.9
75°	927.6	949.2	1049.0	1148.8	1310.6	2130.3	3699.8	13984.8	26111.5	27190.2
77.5°	515.1	474.6	852.1	951.9	1105.6	1348.3	1731.2	8230.1	14623.9	14923.2
80°	320.9	331.7	676.9	765.8	849.4	679.6	792.8	3168.5	5069.7	4816.2
82.5°	18.9	43.1	520.5	552.8	582.5	291.2	299.3	1076.0	1221.6	1121.8
85°	0.0	0.0	237.3	191.5	202.2	83.6	86.3	250.8	164.5	178.0
87.5°	0.0	0.0	0.0	5.4	0.0	8.1	16.2	21.6	8.1	10.8
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°
5007.7	0°	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7
5263.8	2.5°	5075.1	4886.3	4503.4	4128.6	3823.8	3540.7	3338.4	3147.0	3049.9	3044.5
5603.6	5°	5228.8	4832.4	4066.5	3389.7	2845.0	2408.1	2125.0	1922.7	1820.2	1785.2
6021.6	7.5°	5444.5	4848.6	3683.6	2742.5	2100.7	1725.8	1564.0	1499.3	1477.8	1453.5
6493.5	10°	5716.9	4886.3	3341.1	2208.5	1655.7	1467.0	1402.3	1375.3	1359.1	1342.9
7024.7	12.5°	6021.6	4921.4	3001.4	1833.7	1456.2	1359.1	1313.3	1280.9	1259.3	1240.5
7569.5	15°	6318.2	4942.9	2648.1	1572.1	1353.7	1275.5	1227.0	1191.9	1162.3	1140.7
8103.4	17.5°	6612.2	4972.6	2316.4	1415.7	1270.1	1191.9	1143.4	1100.2	1076.0	1051.7
8664.3	20°	6938.4	4967.2	2003.6	1305.2	1186.5	1108.3	1057.1	1016.6	992.4	965.4
9257.6	22.5°	7240.5	4940.2	1728.5	1210.8	1100.2	1024.7	968.1	927.6	903.4	881.8
9864.3	25°	7588.3	4918.7	1499.3	1124.5	1019.3	943.8	881.8	844.0	817.1	798.2
10473.7	27.5°	7922.7	4886.3	1332.1	1046.3	941.1	868.3	809.0	765.8	741.6	728.1
11102.1	30°	8251.7	4878.2	1270.1	970.8	871.0	798.2	738.9	698.4	679.6	674.2
11792.4	32.5°	8648.1	4899.8	1297.1	943.8	806.3	733.5	676.9	647.2	628.3	628.3
12560.9	35°	9071.5	4894.4	1337.5	968.1	763.1	668.8	625.6	606.7	587.9	587.9
13413.1	37.5°	9602.7	4902.5	1369.9	1008.5	747.0	614.8	590.6	566.3	555.5	555.5
14346.1	40°	10395.5	5169.5	1353.7	1043.6	741.6	577.1	528.5	520.5	512.4	512.4
15400.5	42.5°	11366.3	5749.2	1375.3	1046.3	738.9	550.1	485.4	501.6	482.7	480.0
16589.7	45°	12428.8	6382.9	1512.8	989.7	736.2	536.6	463.8	482.7	453.0	453.0
17967.7	47.5°	13483.2	7011.3	1653.0	908.8	728.1	533.9	444.9	434.2	426.1	428.8
19763.7	50°	14936.7	7523.6	1707.0	798.2	709.2	528.5	409.9	412.6	407.2	412.6
22295.8	52.5°	16519.6	7631.5	1642.3	674.2	655.3	512.4	385.6	396.4	393.7	399.1
24078.3	55°	17506.6	7515.5	1356.4	560.9	571.7	447.6	361.3	382.9	382.9	382.9
25820.3	57.5°	18525.9	7022.0	962.7	455.7	474.6	366.7	339.8	369.4	366.7	364.0
27918.3	60°	19259.4	6223.8	633.7	374.8	377.5	302.0	315.5	347.9	345.2	331.7
30081.0	62.5°	19806.8	5342.0	407.2	318.2	288.5	272.4	288.5	315.5	304.7	275.1
31914.7	65°	19744.8	4120.5	312.8	272.4	237.3	237.3	250.8	275.1	242.7	194.2
32265.3	67.5°	18593.3	2788.3	258.9	229.2	199.6	196.9	207.6	229.2	207.6	164.5
30469.3	70°	16535.8	1822.9	207.6	178.0	159.1	145.6	167.2	196.9	175.3	132.1
25939.0	72.5°	13421.2	1111.0	156.4	129.4	116.0	94.4	132.1	161.8	140.2	97.1
18037.8	75°	8683.2	566.3	107.9	83.6	62.0	56.6	97.1	121.3	97.1	59.3
8003.6	77.5°	3322.3	237.3	59.3	37.8	32.4	27.0	53.9	72.8	40.4	13.5
1550.6	80°	639.1	99.8	29.7	18.9	16.2	10.8	8.1	5.4	0.0	0.0
275.1	82.5°	110.6	32.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
53.9	85°	37.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.9	87.5°	13.5	0.0	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°
5007.7
3039.1
1779.8
1448.1
1337.5
1235.1
1138.0
1049.0
962.7
879.1
795.5
728.1
671.5
628.3
587.9
555.5
512.4
477.3
453.0
428.8
412.6
399.1
382.9
364.0
331.7
269.7
188.8
159.1
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91.7
51.2
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