

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: P957044

Luminaire Tested: **GALN-SB9C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957044
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-SB9C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 57755 lumens
Efficiency: N/A
Efficacy: 128.4 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

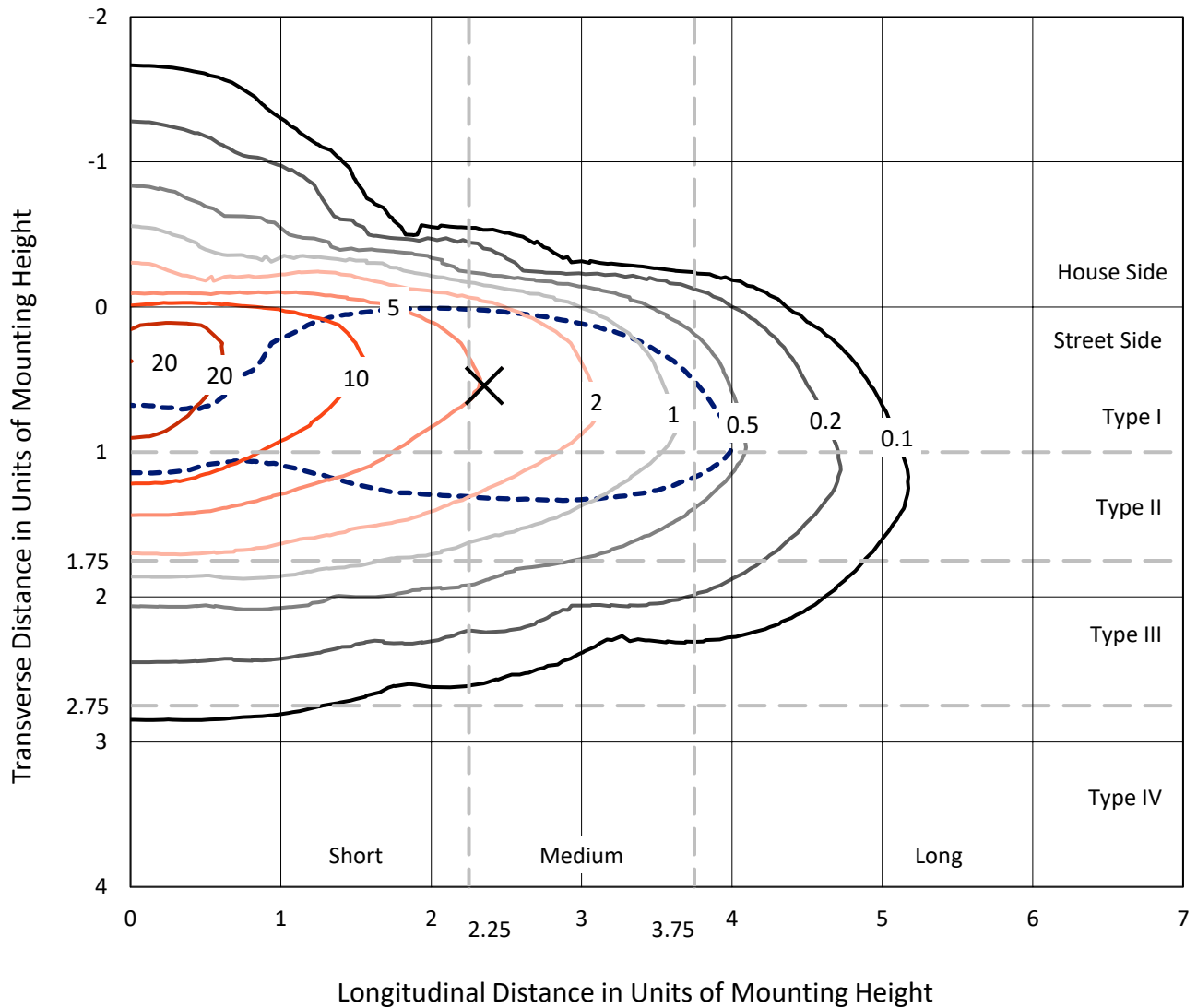
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

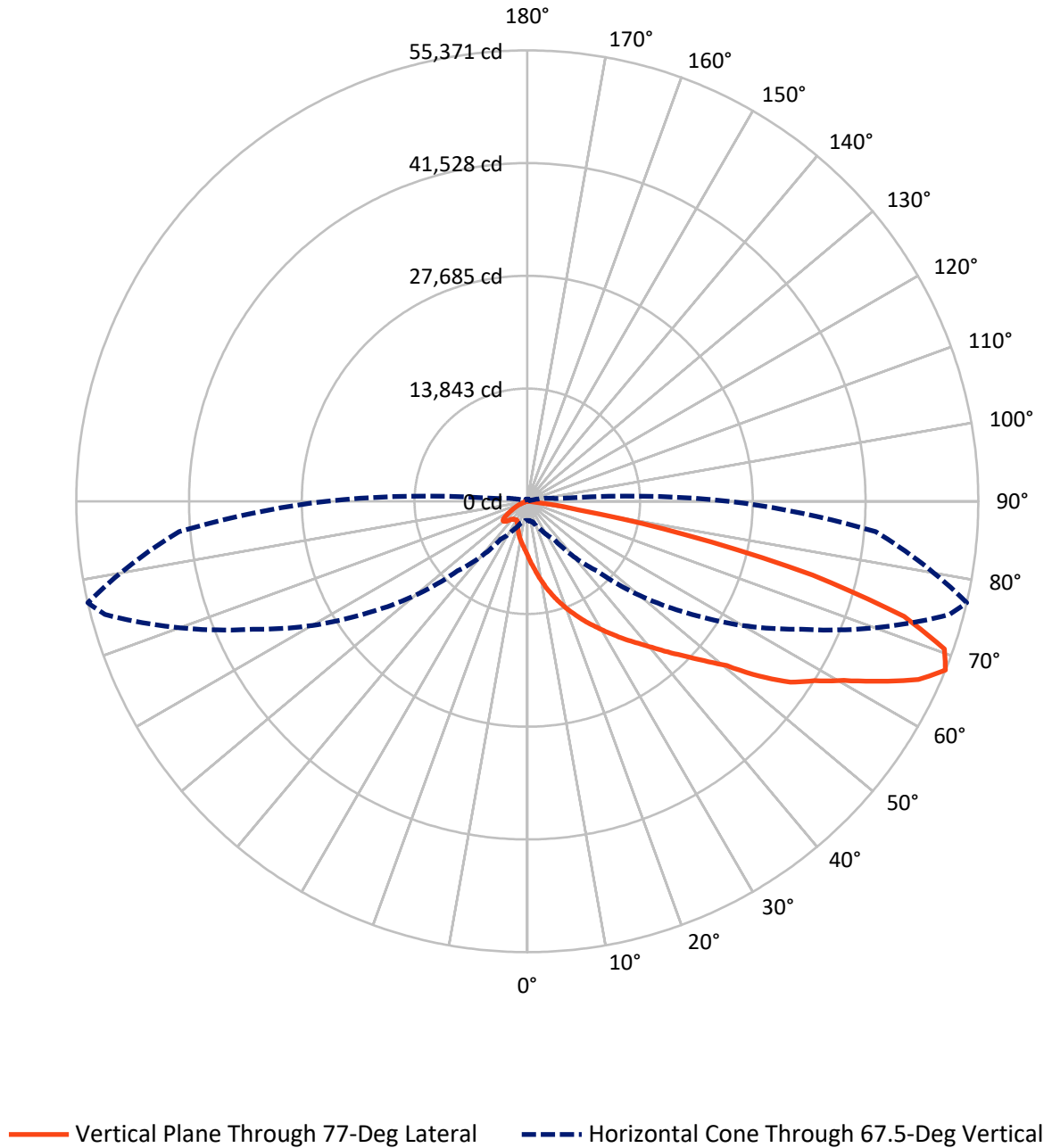
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 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	4249.1	0.0	4249.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	53505.9	0.0	53505.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	57755.0	0.0	57755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.8	1.2
10°-20°	2380.4	4.1
20°-30°	4593.6	8.0
30°-40°	7974.8	13.8
40°-50°	11578.9	20.0
50°-60°	13296.9	23.0
60°-70°	11544.2	20.0
70°-80°	5437.4	9.4
80°-90°	268.9	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°	57755.0	100.0
0°-180°	57755.0	100.0

Coefficient of Utilization



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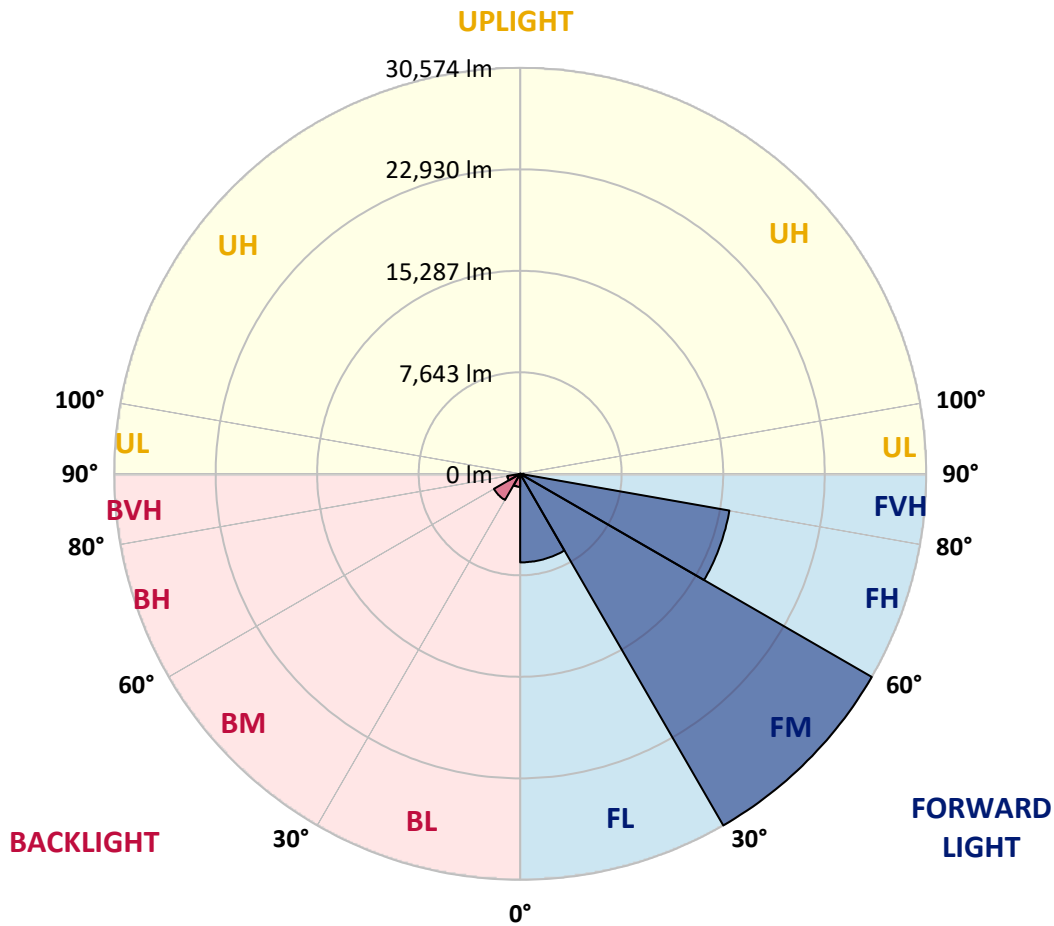
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6670.1	11.5			
FM (30°-60°)	30573.9	52.9			
FH (60°-80°)	15998.0	27.7			G5
FVH (80°-90°)	264.0	0.5			G3/500
BL (0°-30°)	983.7	1.7	B2/1000		
BM (30°-60°)	2276.7	3.9	B2/2500		
BH (60°-80°)	983.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.9	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°	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0
2.5°	9220.7	9278.1	9195.6	9037.8	8801.1	8646.9	8270.3	7915.3	7520.7	7395.2
5°	11239.9	11290.1	11196.8	11024.7	10709.1	10407.8	9912.9	9170.5	8399.4	8152.0
7.5°	12735.4	12764.1	12728.2	12570.4	12269.2	11928.5	11376.2	10497.5	9353.4	9080.8
10°	13811.3	13904.6	13893.8	13832.9	13632.0	13355.9	12767.7	11767.1	10422.2	10070.7
12.5°	14525.0	14629.0	14690.0	14826.3	14815.5	14639.8	14123.4	13065.4	11487.3	11074.9
15°	14733.1	14844.2	15077.4	15393.0	15672.7	15762.4	15400.1	14338.5	12660.1	12132.9
17.5°	14614.7	14786.9	15066.6	15565.1	16178.4	16583.7	16544.2	15568.7	13725.3	13122.7
20°	14876.5	15041.5	15260.3	15679.9	16393.6	17128.8	17422.9	16745.0	14783.3	14152.1
22.5°	16325.4	16296.7	16318.3	16386.4	16813.2	17541.2	18147.3	17813.8	15830.5	15184.9
25°	18620.7	18491.6	18272.9	17903.5	17795.9	18147.3	18778.5	18760.6	16935.1	16242.9
27.5°	21253.2	21231.7	20718.8	19829.4	19327.3	19191.0	19492.2	19682.3	18029.0	17290.2
30°	23774.4	23831.8	23139.6	22149.8	21228.1	20693.7	20421.1	20557.4	19140.8	18419.9
32.5°	25969.3	26030.3	25277.2	24118.7	22978.3	22332.7	21758.9	21421.7	20353.0	19567.6
35°	27823.5	27884.5	27020.2	25739.8	24524.0	23939.4	23290.3	22368.6	21572.4	20840.7
37.5°	29480.5	29462.5	28304.1	27013.0	25818.7	25356.1	25015.3	23534.2	22827.6	22121.1
40°	30459.5	30534.9	29545.0	28121.2	26962.8	26625.7	26604.1	24979.5	24276.5	23591.5
42.5°	30746.5	30879.2	30161.9	28992.7	27941.9	27576.1	28139.1	26543.2	25962.2	25295.1
45°	30230.0	30359.1	30032.8	29222.2	28609.0	28372.2	29458.9	28164.2	27762.6	27102.7
47.5°	28723.7	28885.1	28964.0	28791.9	28784.7	29025.0	30642.5	29871.4	29900.1	29225.8
50°	25808.0	26080.5	26805.0	27414.7	28357.9	29541.4	31793.7	31722.0	32310.1	31729.1
52.5°	20507.2	20894.5	23390.7	25058.4	27178.0	29444.6	33059.7	34691.5	36538.5	35688.6
55°	16479.6	16479.6	18509.6	21629.8	24875.5	28806.2	33612.0	36621.0	39418.5	39217.6
57.5°	13434.8	13596.2	14890.9	17648.8	21543.7	27285.6	33952.7	37833.2	41738.9	41591.8
60°	8291.8	8639.7	11085.7	13807.8	17752.8	24577.8	33737.5	39059.8	44554.2	44672.6
62.5°	4669.5	4798.6	5888.9	9934.4	13804.2	20937.6	32091.4	39744.8	48155.0	48657.1
65°	3224.2	3288.8	3708.4	6183.0	9568.6	16669.7	28874.3	39318.0	51762.9	52777.9
67.5°	2341.9	2374.2	2636.0	3776.5	5677.3	12086.3	23831.8	37166.2	53674.5	55370.9
70°	1800.4	1821.9	2012.0	2481.8	3353.3	7459.8	17308.1	32887.6	52290.1	54316.5
72.5°	1463.3	1484.8	1631.8	1836.3	2223.6	4411.3	10490.3	26708.1	46178.9	48366.6
75°	1233.7	1262.4	1395.1	1527.8	1743.0	2833.3	4920.6	18599.2	34727.4	36162.0
77.5°	685.0	631.2	1133.3	1266.0	1470.4	1793.2	2302.5	10945.8	19449.2	19847.3
80°	426.8	441.1	900.2	1018.5	1129.7	903.8	1054.4	4214.1	6742.5	6405.4
82.5°	25.1	57.4	692.2	735.2	774.7	387.3	398.1	1431.0	1624.7	1492.0
85°	0.0	0.0	315.6	254.6	269.0	111.2	114.8	333.5	218.8	236.7
87.5°	0.0	0.0	0.0	7.2	0.0	10.8	21.5	28.7	10.8	14.3
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°
6660.0	0°	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0	6660.0
7000.7	2.5°	6749.7	6498.6	5989.3	5490.8	5085.6	4709.0	4440.0	4185.4	4056.3	4049.1
7452.6	5°	6954.1	6426.9	5408.3	4508.1	3783.7	3202.7	2826.1	2557.1	2420.8	2374.2
8008.5	7.5°	7241.0	6448.4	4899.1	3647.4	2793.8	2295.3	2080.1	1994.1	1965.4	1933.1
8636.1	10°	7603.2	6498.6	4443.6	2937.3	2202.1	1951.0	1864.9	1829.1	1807.6	1786.0
9342.7	12.5°	8008.5	6545.2	3991.7	2438.8	1936.7	1807.6	1746.6	1703.6	1674.9	1649.8
10067.1	15°	8403.0	6573.9	3521.9	2090.9	1800.4	1696.4	1631.8	1585.2	1545.8	1517.1
10777.2	17.5°	8793.9	6613.4	3080.7	1882.9	1689.2	1585.2	1520.6	1463.3	1431.0	1398.7
11523.2	20°	9227.9	6606.2	2664.7	1735.8	1578.0	1474.0	1405.9	1352.1	1319.8	1283.9
12312.2	22.5°	9629.6	6570.3	2298.9	1610.3	1463.3	1362.8	1287.5	1233.7	1201.5	1172.8
13119.2	25°	10092.2	6541.6	1994.1	1495.5	1355.7	1255.3	1172.8	1122.6	1086.7	1061.6
13929.7	27.5°	10536.9	6498.6	1771.7	1391.5	1251.7	1154.8	1075.9	1018.5	986.3	968.3
14765.3	30°	10974.5	6487.9	1689.2	1291.1	1158.4	1061.6	982.7	928.9	903.8	896.6
15683.5	32.5°	11501.7	6516.5	1725.1	1255.3	1072.3	975.5	900.2	860.7	835.6	835.6
16705.6	35°	12064.8	6509.4	1778.9	1287.5	1015.0	889.4	832.1	806.9	781.8	781.8
17838.9	37.5°	12771.3	6520.1	1821.9	1341.3	993.4	817.7	785.4	753.2	738.8	738.8
19079.8	40°	13825.7	6875.2	1800.4	1387.9	986.3	767.5	702.9	692.2	681.4	681.4
20482.1	42.5°	15116.8	7646.3	1829.1	1391.5	982.7	731.6	645.6	667.1	642.0	638.4
22063.7	45°	16529.9	8489.1	2012.0	1316.2	979.1	713.7	616.9	642.0	602.5	602.5
23896.4	47.5°	17932.1	9324.7	2198.5	1208.6	968.3	710.1	591.8	577.4	566.7	570.2
26284.9	50°	19865.2	10006.1	2270.2	1061.6	943.2	702.9	545.1	548.7	541.6	548.7
29652.6	52.5°	21970.5	10149.6	2184.1	896.6	871.5	681.4	512.9	527.2	523.6	530.8
32023.2	55°	23283.1	9995.4	1804.0	746.0	760.3	595.3	480.6	509.3	509.3	509.3
34340.1	57.5°	24638.8	9339.1	1280.4	606.1	631.2	487.8	451.9	491.3	487.8	484.2
37130.3	60°	25614.3	8277.5	842.8	498.5	502.1	401.7	419.6	462.6	459.1	441.1
40006.6	62.5°	26342.3	7104.7	541.6	423.2	383.7	362.2	383.7	419.6	405.3	365.8
42445.4	65°	26259.8	5480.1	416.0	362.2	315.6	315.6	333.5	365.8	322.8	258.2
42911.6	67.5°	24728.4	3708.4	344.3	304.8	265.4	261.8	276.2	304.8	276.2	218.8
40523.1	70°	21992.0	2424.4	276.2	236.7	211.6	193.7	222.4	261.8	233.1	175.7
34497.9	72.5°	17849.7	1477.6	208.0	172.1	154.2	125.5	175.7	215.2	186.5	129.1
23989.6	75°	11548.3	753.2	143.5	111.2	82.5	75.3	129.1	161.4	129.1	78.9
10644.5	77.5°	4418.5	315.6	78.9	50.2	43.0	35.9	71.7	96.8	53.8	17.9
2062.2	80°	850.0	132.7	39.5	25.1	21.5	14.3	10.8	7.2	0.0	0.0
365.8	82.5°	147.0	43.0	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
71.7	85°	50.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.1	87.5°	17.9	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°
6660.0
4041.9
2367.0
1925.9
1778.9
1642.6
1513.5
1395.1
1280.4
1169.2
1058.0
968.3
893.0
835.6
781.8
738.8
681.4
634.8
602.5
570.2
548.7
530.8
509.3
484.2
441.1
358.6
251.1
211.6
168.6
121.9
68.1
14.3
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