

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: P943164

Luminaire Tested: **GALN-SB7C-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943164
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-SB7C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 38892 lumens
Efficiency: N/A
Efficacy: 111.0 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

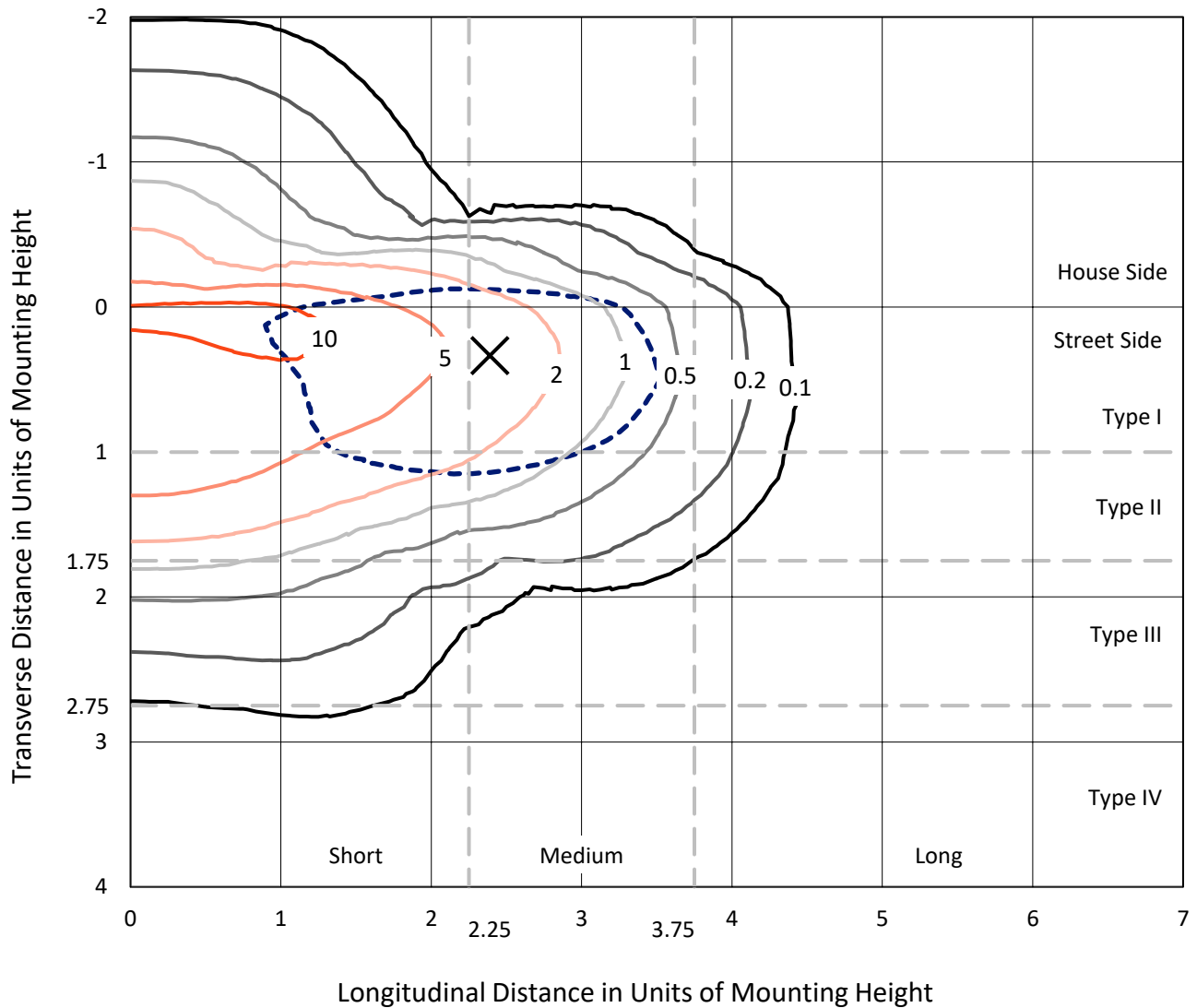
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

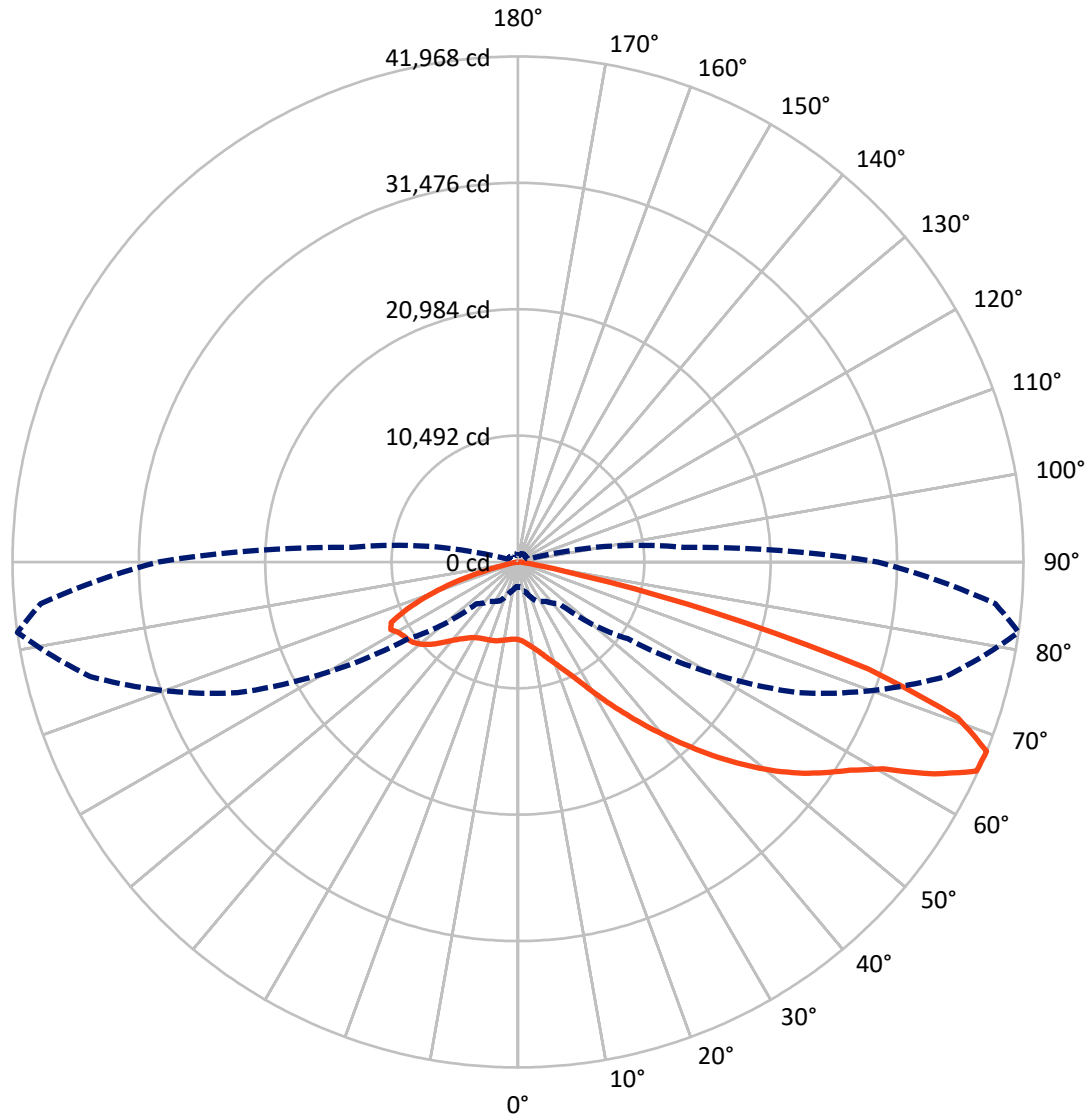
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	7044.9	0.0	7044.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31847.0	0.0	31847.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	38892.0	0.0	38892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	1.5
10°-20°	1491.7	3.8
20°-30°	2389.2	6.1
30°-40°	4224.8	10.9
40°-50°	7402.3	19.0
50°-60°	9872.6	25.4
60°-70°	9190.9	23.6
70°-80°	3527.4	9.1
80°-90°	219.1	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°	38892.0	100.0
0°-180°	38892.0	100.0



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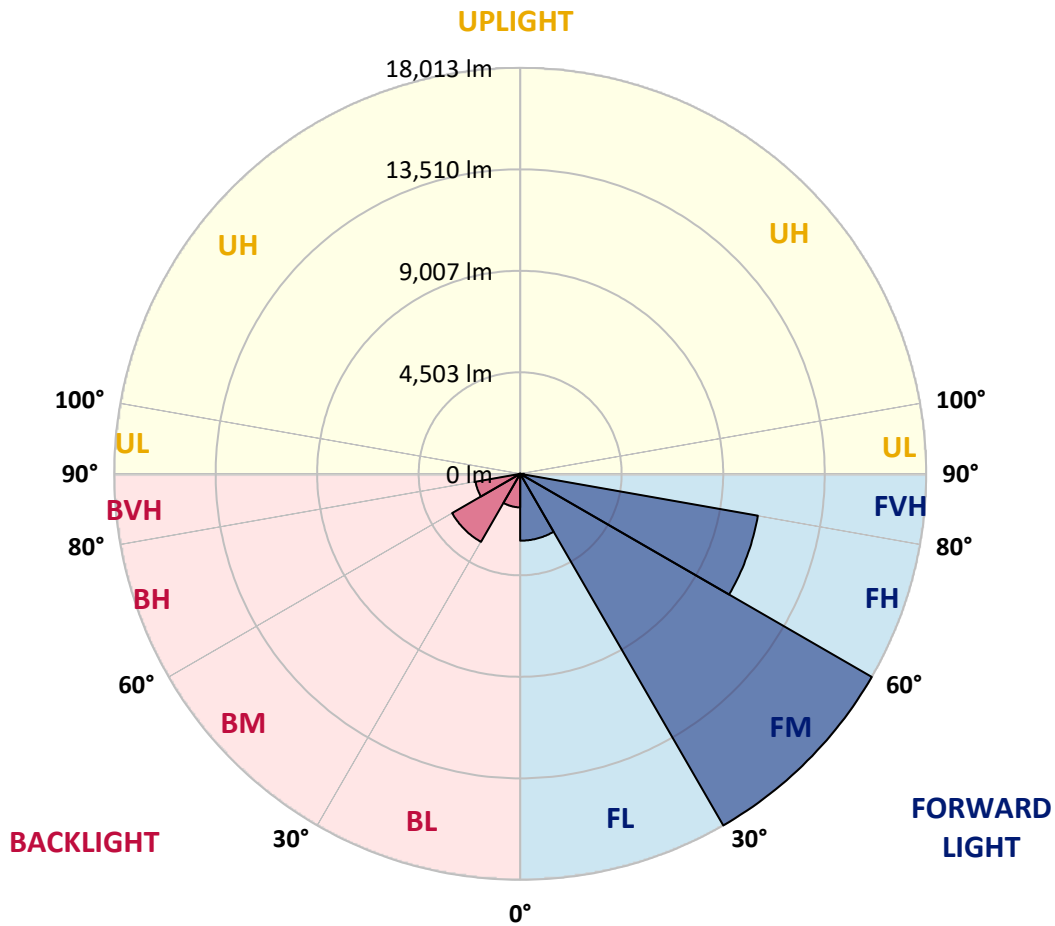
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2967.0	7.6			
FM (30°-60°)	18013.2	46.3			
FH (60°-80°)	10707.6	27.5			G4/12000
FVH (80°-90°)	159.3	0.4			G2/225
BL (0°-30°)	1487.9	3.8	B3/2500		
BM (30°-60°)	3486.5	9.0	B3/5000		
BH (60°-80°)	2010.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	59.8	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°	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1
2.5°	6809.9	6849.1	6826.7	6815.5	6795.9	6767.9	6745.5	6675.5	6602.7	6555.1
5°	6947.1	6986.3	6983.5	6994.7	7008.7	7017.1	7011.5	6933.1	6829.5	6748.3
7.5°	6829.5	6874.3	6910.7	6966.7	7064.7	7168.3	7218.7	7201.9	7095.5	6983.5
10°	6496.3	6543.9	6630.7	6762.3	6969.5	7193.5	7381.1	7467.9	7400.7	7277.5
12.5°	5885.9	5933.5	6104.3	6389.9	6737.1	7126.3	7484.7	7717.1	7733.9	7610.7
15°	5199.8	5247.4	5429.4	5787.9	6317.1	6941.5	7540.7	7980.4	8128.8	8022.4
17.5°	4774.2	4816.2	4953.4	5241.8	5793.5	6571.9	7521.1	8260.4	8599.2	8515.2
20°	4645.4	4681.8	4746.2	4947.8	5407.0	6188.3	7392.3	8523.6	9106.0	9058.4
22.5°	4782.6	4816.2	4835.8	4925.4	5213.8	5936.3	7229.9	8792.4	9694.0	9699.6
25°	5099.0	5132.6	5110.2	5166.2	5292.2	5857.9	7168.3	9108.8	10433.3	10494.9
27.5°	5619.9	5622.7	5569.4	5566.6	5586.2	5975.5	7232.7	9447.6	11365.7	11480.5
30°	6664.3	6622.3	6417.9	6196.7	6095.9	6328.3	7411.9	9848.0	12466.2	12670.6
32.5°	8274.4	8212.8	7837.6	7308.3	6776.3	6896.7	7733.9	10304.5	13664.6	14034.2
35°	10021.6	10004.8	9612.8	8826.0	7896.4	7705.9	8257.6	10903.7	14972.3	15560.3
37.5°	11645.7	11637.3	11413.3	10486.5	9355.2	8834.4	9097.6	11687.7	16372.3	17223.6
40°	13129.8	13155.0	12931.0	12102.1	10962.5	10282.1	10240.1	12656.6	17929.2	19035.3
42.5°	14412.2	14440.2	14213.4	13600.2	12550.2	11883.7	11642.9	13843.8	19449.7	20981.3
45°	15283.1	15456.7	15423.1	14933.1	14179.8	13488.2	13328.6	15333.5	21182.9	23045.0
47.5°	15529.5	15689.1	15941.1	16008.3	15549.1	14868.7	15059.1	17128.4	22935.8	25111.5
50°	14921.9	15070.3	15593.9	16291.1	16610.3	16400.3	16741.9	19052.1	24730.7	27172.4
52.5°	13723.4	13874.6	14535.5	15638.7	16940.8	17601.6	18430.4	20947.7	26469.6	29124.1
55°	11990.1	12149.7	12998.2	14247.0	16310.7	18097.2	19838.9	22840.6	28062.9	30879.8
57.5°	9632.4	9750.0	10632.1	12379.4	14725.9	17604.4	20877.7	24907.1	29563.7	32604.7
60°	6277.9	6381.5	7406.3	9355.2	12099.3	15957.9	21084.9	27211.6	31557.4	34847.6
62.5°	4175.0	4245.0	4852.6	6283.5	8520.8	12796.6	19872.5	29051.3	34480.7	38750.9
65°	2864.5	2934.5	3542.2	4539.0	5505.0	8464.8	16386.3	28807.7	37129.7	41850.7
67.5°	2044.1	2102.9	2618.1	3559.0	3984.6	4917.0	11108.1	25693.9	36748.8	41968.3
70°	1464.5	1498.1	1923.7	2772.1	3166.9	2954.1	6177.1	19651.3	32176.2	38753.7
72.5°	1024.8	1036.0	1335.7	2111.3	2550.9	2156.1	2940.1	13101.8	24335.9	30417.8
75°	694.4	708.4	898.8	1548.5	2046.9	1646.5	1556.9	7025.5	14286.2	16837.2
77.5°	425.6	431.2	579.6	1058.4	1531.7	1254.5	1002.4	2976.5	5527.4	5426.6
80°	240.8	240.8	369.6	658.0	1044.4	809.2	702.8	1265.7	1750.1	1537.3
82.5°	134.4	137.2	268.8	408.8	691.6	478.8	386.4	585.2	756.0	669.2
85°	56.0	61.6	165.2	193.2	330.4	238.0	156.8	246.4	280.0	249.2
87.5°	5.6	8.4	50.4	36.4	39.2	47.6	22.4	47.6	39.2	39.2
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°
6443.1	0°	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1	6443.1
6538.3	2.5°	6485.1	6443.1	6336.7	6213.5	6051.1	5972.7	5866.3	5793.5	5731.9	5737.5
6700.7	5°	6611.1	6504.7	6266.7	5969.9	5600.3	5337.0	5057.0	4863.8	4707.0	4673.4
6924.7	7.5°	6784.7	6616.7	6199.5	5664.7	5040.2	4567.0	4144.2	3872.6	3679.4	3617.8
7196.3	10°	7008.7	6765.1	6112.7	5281.0	4382.2	3780.2	3326.5	3113.7	2982.1	2937.3
7515.5	12.5°	7269.1	6935.9	5997.9	4813.4	3704.6	3124.9	2836.5	2730.1	2688.1	2674.1
7907.6	15°	7596.7	7148.7	5824.3	4259.0	3130.5	2724.5	2601.3	2587.3	2592.9	2587.3
8378.0	17.5°	7986.0	7381.1	5541.4	3687.8	2744.1	2520.1	2475.3	2486.5	2500.5	2497.7
8904.4	20°	8411.6	7610.7	5180.2	3180.9	2480.9	2374.5	2349.3	2360.5	2371.7	2366.1
9512.0	22.5°	8896.0	7857.2	4779.8	2786.1	2304.5	2240.1	2212.1	2214.9	2214.9	2203.7
10282.1	25°	9475.6	8128.8	4359.8	2506.1	2170.1	2119.7	2086.1	2074.9	2058.1	2024.5
11217.3	27.5°	10167.3	8417.2	3956.6	2310.1	2063.7	2016.1	1976.9	1948.9	1906.9	1850.9
12340.2	30°	10945.7	8767.2	3615.0	2186.9	1979.7	1932.1	1887.3	1845.3	1783.7	1713.7
13631.0	32.5°	11861.3	9142.4	3365.8	2105.7	1904.1	1853.7	1800.5	1750.1	1682.9	1612.9
15081.5	35°	12953.4	9596.0	3220.1	2049.7	1845.3	1778.1	1719.3	1663.3	1612.9	1551.3
16657.9	37.5°	14137.8	10077.7	3175.3	2021.7	1806.1	1702.5	1635.3	1596.1	1590.5	1554.1
18363.2	40°	15434.3	10648.9	3208.9	2004.9	1764.1	1629.7	1556.9	1548.5	1562.5	1498.1
20186.1	42.5°	16806.4	11326.5	3264.9	1985.3	1705.3	1556.9	1486.9	1486.9	1475.7	1386.1
22112.6	45°	18290.4	12107.7	3320.9	1937.7	1635.3	1484.1	1430.9	1411.3	1363.7	1276.9
24050.3	47.5°	19785.7	12903.0	3363.0	1850.9	1551.3	1422.5	1374.9	1330.1	1260.1	1181.7
25951.6	50°	21205.3	13617.0	3318.1	1722.1	1456.1	1363.7	1313.3	1251.7	1176.1	1122.9
27752.0	52.5°	22473.8	14235.8	3127.7	1570.9	1355.3	1302.1	1257.3	1192.9	1131.3	1075.2
29376.1	55°	23577.1	14737.1	2791.7	1428.1	1265.7	1248.9	1204.1	1122.9	1038.8	991.2
30986.2	57.5°	24635.5	15117.9	2371.7	1310.5	1184.5	1190.1	1122.9	1050.0	971.6	921.2
33156.3	60°	26044.0	15627.5	1946.1	1201.3	1097.6	1114.4	1041.6	988.4	890.4	826.0
36877.6	62.5°	28295.3	16419.9	1545.7	1066.8	996.8	1002.4	971.6	907.2	789.6	714.0
39635.8	65°	30081.7	16128.7	1218.1	921.2	882.0	890.4	890.4	820.4	694.4	607.6
39784.2	67.5°	29880.1	13810.2	971.6	778.4	772.8	778.4	798.0	739.2	616.0	546.0
36754.4	70°	27525.2	10984.9	778.4	646.8	672.0	658.0	714.0	674.8	554.4	484.4
28494.1	72.5°	22459.8	7913.2	593.6	534.8	515.2	537.6	644.0	607.6	462.0	383.6
15092.7	75°	13124.2	4222.6	442.4	422.8	372.4	448.0	571.2	518.0	352.8	282.8
4625.8	77.5°	4273.0	1472.9	324.8	310.8	277.2	361.2	487.2	436.8	288.4	224.0
1355.3	80°	1145.3	445.2	221.2	204.4	179.2	268.8	386.4	347.2	207.2	145.6
582.4	82.5°	459.2	187.6	128.8	114.8	98.0	184.8	305.2	280.0	154.0	92.4
182.0	85°	148.4	61.6	47.6	36.4	44.8	114.8	182.0	190.4	109.2	47.6
28.0	87.5°	19.6	8.4	8.4	11.2	8.4	19.6	56.0	53.2	30.8	5.6
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>
6443.1
5681.5
4597.8
3556.2
2903.7
2665.7
2584.5
2492.1
2363.3
2198.1
2018.9
1845.3
1708.1
1615.7
1545.7
1551.3
1500.9
1386.1
1274.1
1178.9
1114.4
1069.6
985.6
915.6
817.6
708.4
599.2
534.8
476.0
375.2
274.4
215.6
142.8
92.4
36.4
0.0
0.0

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