

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: P943218

Luminaire Tested: **GALN-SB7C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36235 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

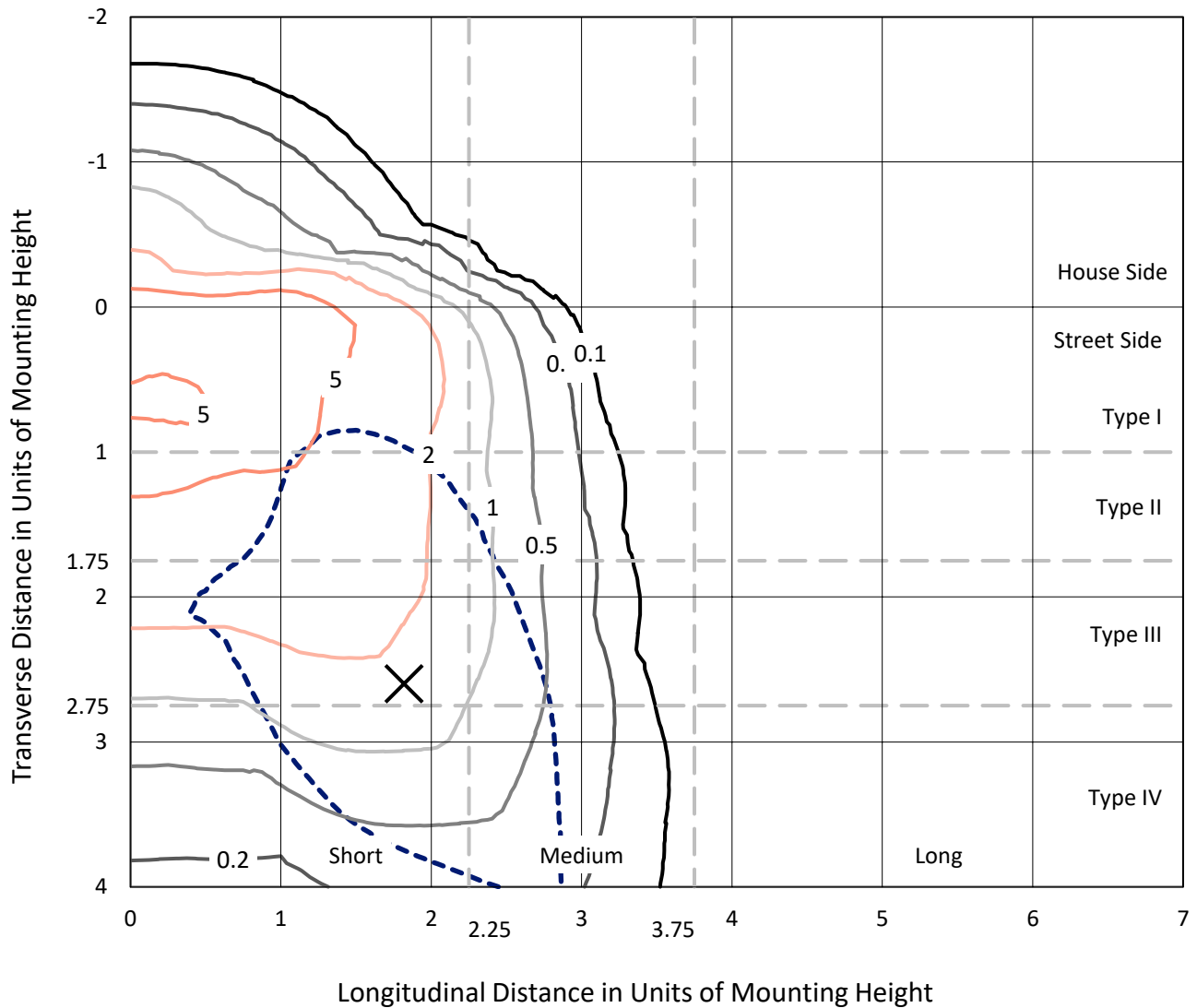
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

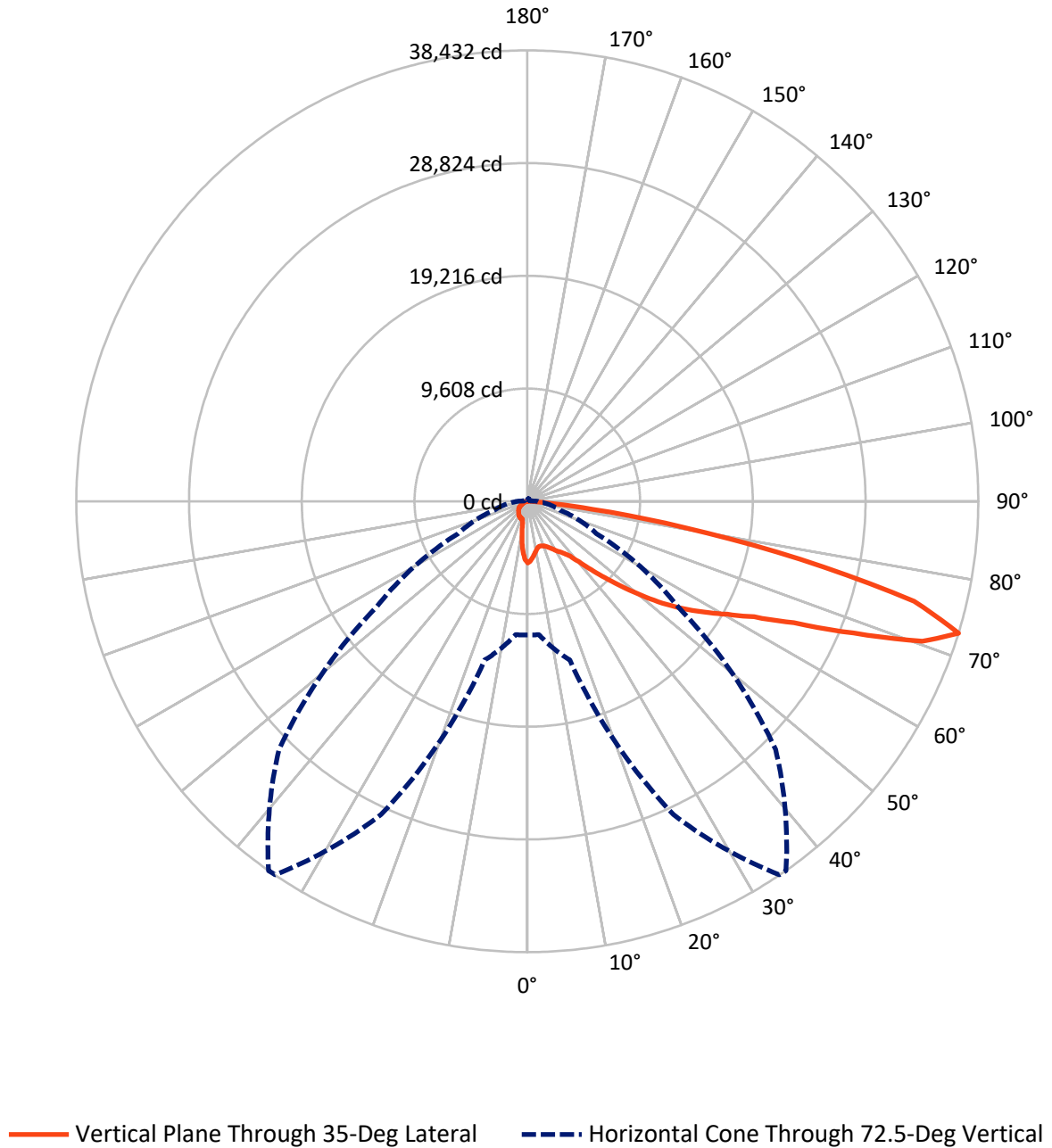
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4078.1	0.0	4078.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	32156.9	0.0	32156.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	36235.0	0.0	36235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.5	1.2
10°-20°	1009.6	2.8
20°-30°	1640.0	4.5
30°-40°	2736.3	7.6
40°-50°	5177.2	14.3
50°-60°	8226.5	22.7
60°-70°	10176.8	28.1
70°-80°	6325.9	17.5
80°-90°	511.2	1.4
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°	36235.0	100.0
0°-180°	36235.0	100.0

Coefficient of Utilization



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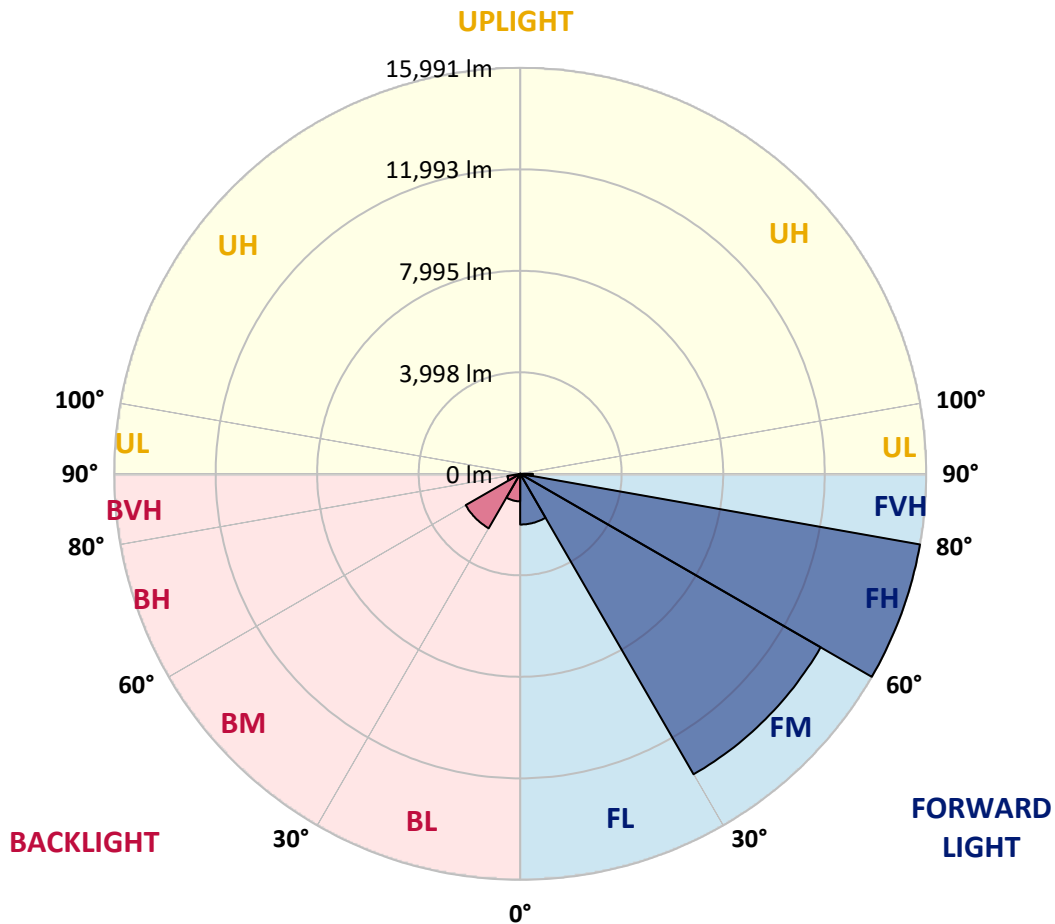
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.5	5.5			
FM (30°-60°)	13664.2	37.7			
FH (60°-80°)	15991.0	44.1			G5
FVH (80°-90°)	504.3	1.4			G4/750
BL (0°-30°)	1083.6	3.0	B3/2500		
BM (30°-60°)	2475.8	6.8	B2/2500		
BH (60°-80°)	511.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7
2.5°	5018.0	5060.5	5068.5	5081.7	5081.7	5097.7	5124.2	5161.4	5222.5	5254.3
5°	4625.1	4656.9	4696.8	4728.6	4789.7	4797.7	4901.2	5002.1	5142.8	5249.0
7.5°	4229.5	4266.6	4319.7	4396.7	4476.4	4500.3	4656.9	4826.9	5049.9	5249.0
10°	3950.7	3953.4	4001.1	4078.1	4205.6	4234.8	4425.9	4667.6	4946.3	5217.2
12.5°	3794.1	3812.6	3833.9	3892.3	4014.4	4033.0	4237.4	4521.5	4842.8	5198.6
15°	3794.1	3807.3	3820.6	3849.8	3948.0	3964.0	4144.5	4428.6	4789.7	5206.5
17.5°	3833.9	3855.1	3844.5	3879.0	3982.6	3993.2	4152.5	4402.1	4787.0	5257.0
20°	3929.5	3945.4	3924.1	3945.4	4048.9	4070.2	4234.8	4452.5	4832.2	5344.6
22.5°	4080.8	4088.8	4038.3	4054.2	4160.4	4187.0	4378.2	4595.9	4941.0	5485.3
25°	4272.0	4287.9	4210.9	4229.5	4330.4	4362.2	4582.6	4810.9	5113.6	5679.1
27.5°	4492.3	4500.3	4433.9	4431.3	4561.4	4606.5	4829.5	5076.4	5344.6	5923.4
30°	4744.6	4768.4	4704.7	4694.1	4858.7	4895.9	5116.3	5403.0	5684.4	6289.8
32.5°	4943.7	4962.3	4925.1	4951.6	5118.9	5148.1	5464.1	5865.0	6218.1	6810.2
35°	5230.4	5241.0	5156.1	5203.9	5395.0	5469.4	5939.3	6512.8	6889.8	7463.3
37.5°	6268.5	6268.5	5907.5	5671.2	5854.4	5920.7	6589.8	7327.9	7718.2	8339.5
40°	7704.9	7681.0	7152.7	6669.5	6645.6	6775.7	7516.4	8355.4	8788.2	9390.9
42.5°	9236.9	9199.7	8480.2	8002.3	7922.6	7967.8	8586.4	9621.9	10062.6	10673.3
45°	10596.3	10585.6	9927.2	9284.7	9141.3	9284.7	9921.9	11103.4	11419.3	12061.8
47.5°	11735.3	11735.3	11254.7	10835.2	10760.9	10845.8	11730.0	12746.8	12717.6	13540.7
50°	13046.9	13036.2	12579.6	12399.0	12476.0	12595.5	13811.5	14477.9	14061.1	14993.0
52.5°	13965.5	14029.2	13872.6	13843.4	14236.3	14443.4	15924.9	16171.8	15263.8	16371.0
55°	14693.0	14767.3	14947.9	15152.3	15909.0	16179.8	17972.0	17778.1	16270.1	17565.7
57.5°	15723.1	15616.9	15895.7	16299.3	17523.3	17849.8	19955.3	19294.2	17079.9	18534.8
60°	16973.7	16989.6	17037.4	17547.2	19134.9	19554.4	21909.4	20727.9	17600.3	19129.6
62.5°	18476.4	18500.3	18598.5	19381.8	21298.7	21694.3	23990.9	21901.4	17839.2	18962.3
65°	18372.9	18473.8	19570.3	22249.2	24588.3	24978.6	26420.3	22724.5	17478.1	17433.0
67.5°	16737.4	16902.0	18736.6	25674.2	29547.9	29983.4	29356.8	22886.4	15919.6	13556.6
70°	14592.1	14650.5	16856.8	28754.1	35290.8	35731.5	31985.3	21104.9	12080.4	7561.5
72.5°	11395.4	11408.7	13997.4	29468.3	38407.8	38431.7	29922.3	15667.4	6496.9	2904.6
75°	8140.3	8060.7	9374.9	23898.0	33790.7	34061.5	22432.4	7349.1	2482.5	1372.7
77.5°	4364.9	4452.5	5304.8	14172.6	23343.1	23805.1	12239.7	2118.7	1263.8	934.6
80°	1348.8	1423.1	2174.5	6488.9	13222.1	13500.9	4537.5	942.5	881.5	666.4
82.5°	424.8	440.7	1014.2	2726.7	5488.0	5615.4	1314.2	533.7	602.7	440.7
85°	122.1	124.8	451.4	1016.9	1356.7	1383.3	369.1	207.1	345.2	273.5
87.5°	13.3	42.5	169.9	169.9	119.5	116.8	39.8	45.1	98.2	34.5
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°
5251.7	0°	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7	5251.7
5275.6	2.5°	5262.3	5264.9	5230.4	5172.0	5108.3	5055.2	4988.8	4935.7	4898.5	4887.9
5323.4	5°	5299.5	5280.9	5182.6	5004.7	4792.3	4609.1	4404.7	4242.8	4136.6	4091.4
5373.8	7.5°	5355.2	5302.1	5087.1	4736.6	4330.4	3969.3	3602.9	3318.8	3138.3	3048.0
5421.6	10°	5403.0	5296.8	4927.8	4349.0	3727.7	3180.7	2686.9	2344.4	2153.2	2063.0
5477.3	12.5°	5448.1	5294.1	4720.7	3889.6	3048.0	2378.9	1919.6	1749.7	1696.6	1678.0
5567.6	15°	5533.1	5302.1	4460.5	3363.9	2370.9	1797.5	1630.2	1627.5	1638.2	1632.8
5705.7	17.5°	5649.9	5310.1	4165.8	2806.4	1829.3	1585.1	1577.1	1601.0	1616.9	1609.0
5878.3	20°	5801.3	5341.9	3852.5	2254.1	1571.8	1532.0	1550.5	1571.8	1585.1	1571.8
6109.2	22.5°	6013.7	5397.7	3510.0	1810.7	1489.5	1500.1	1516.0	1539.9	1553.2	1534.6
6404.0	25°	6273.9	5485.3	3172.8	1574.4	1449.7	1462.9	1486.8	1513.4	1529.3	1510.7
6775.7	27.5°	6611.0	5626.0	2862.1	1521.3	1409.8	1417.8	1452.3	1492.1	1513.4	1489.5
7304.0	30°	7099.6	5857.0	2594.0	1545.2	1385.9	1367.3	1415.1	1470.9	1494.8	1473.5
8023.5	32.5°	7747.4	6183.6	2429.4	1582.4	1375.3	1308.9	1354.1	1425.8	1465.6	1452.3
8963.4	35°	8597.0	6680.1	2365.6	1624.9	1367.3	1247.9	1279.7	1356.7	1425.8	1439.0
10147.6	37.5°	9627.2	7370.4	2384.2	1643.5	1343.4	1197.4	1213.4	1279.7	1370.0	1412.5
11480.4	40°	10798.0	8174.9	2490.4	1624.9	1316.9	1154.9	1157.6	1208.0	1287.7	1351.4
12914.1	42.5°	12006.1	9114.7	2686.9	1555.9	1293.0	1117.8	1109.8	1144.3	1197.4	1242.6
14345.2	45°	13155.7	10081.2	2880.7	1460.3	1263.8	1080.6	1062.0	1075.3	1085.9	1104.5
15739.1	47.5°	14159.3	10760.9	2825.0	1372.7	1224.0	1038.1	1006.3	1000.9	969.1	966.4
16984.3	50°	14852.3	10909.6	2509.0	1285.0	1165.6	990.3	939.9	908.0	852.3	825.7
17916.2	52.5°	15072.7	10322.8	2049.7	1197.4	1070.0	926.6	854.9	804.5	735.4	711.6
18452.5	55°	14780.6	9173.2	1638.2	1091.2	937.2	841.6	762.0	695.6	639.9	610.7
18510.9	57.5°	14066.4	7710.2	1295.7	966.4	796.5	746.1	666.4	600.0	552.2	523.0
17863.1	60°	12882.2	6122.5	1024.8	817.8	679.7	642.5	560.2	517.7	475.3	440.7
16190.4	62.5°	11084.8	4370.2	804.5	647.8	568.2	525.7	477.9	446.0	395.6	347.8
13182.3	65°	8650.1	2673.6	621.3	475.3	456.7	435.4	406.2	377.0	315.9	268.2
8599.7	67.5°	5456.1	1266.5	443.4	358.4	361.1	350.5	337.2	313.3	268.2	225.7
3852.5	70°	2402.8	613.3	292.1	273.5	268.2	268.2	278.8	270.8	228.3	188.5
1338.1	72.5°	817.8	329.2	217.7	207.1	193.8	191.2	233.6	225.7	183.2	146.0
666.4	75°	427.5	220.4	159.3	148.7	116.8	140.7	185.9	175.2	130.1	95.6
440.7	77.5°	278.8	156.6	108.9	95.6	66.4	92.9	138.1	122.1	77.0	47.8
289.4	80°	175.2	103.5	63.7	45.1	31.9	50.4	74.3	53.1	29.2	10.6
169.9	82.5°	92.9	53.1	23.9	15.9	13.3	15.9	18.6	13.3	5.3	0.0
87.6	85°	37.2	18.6	8.0	5.3	2.7	0.0	5.3	2.7	0.0	0.0
15.9	87.5°	13.3	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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<u>180°</u>
5251.7
4906.5
4107.3
3061.3
2065.6
1672.7
1630.2
1606.3
1569.1
1532.0
1508.1
1489.5
1470.9
1452.3
1439.0
1423.1
1372.7
1261.1
1115.1
963.8
828.4
708.9
610.7
517.7
432.8
339.8
260.2
220.4
180.5
<i>138.1</i>
87.6
42.5
8.0
0.0
0.0
0.0
0.0

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