

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: P944358

Luminaire Tested: **GALN-SB9B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944358
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-SB9B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA 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: 38834 lumens
Efficiency: N/A
Efficacy: 117.9 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

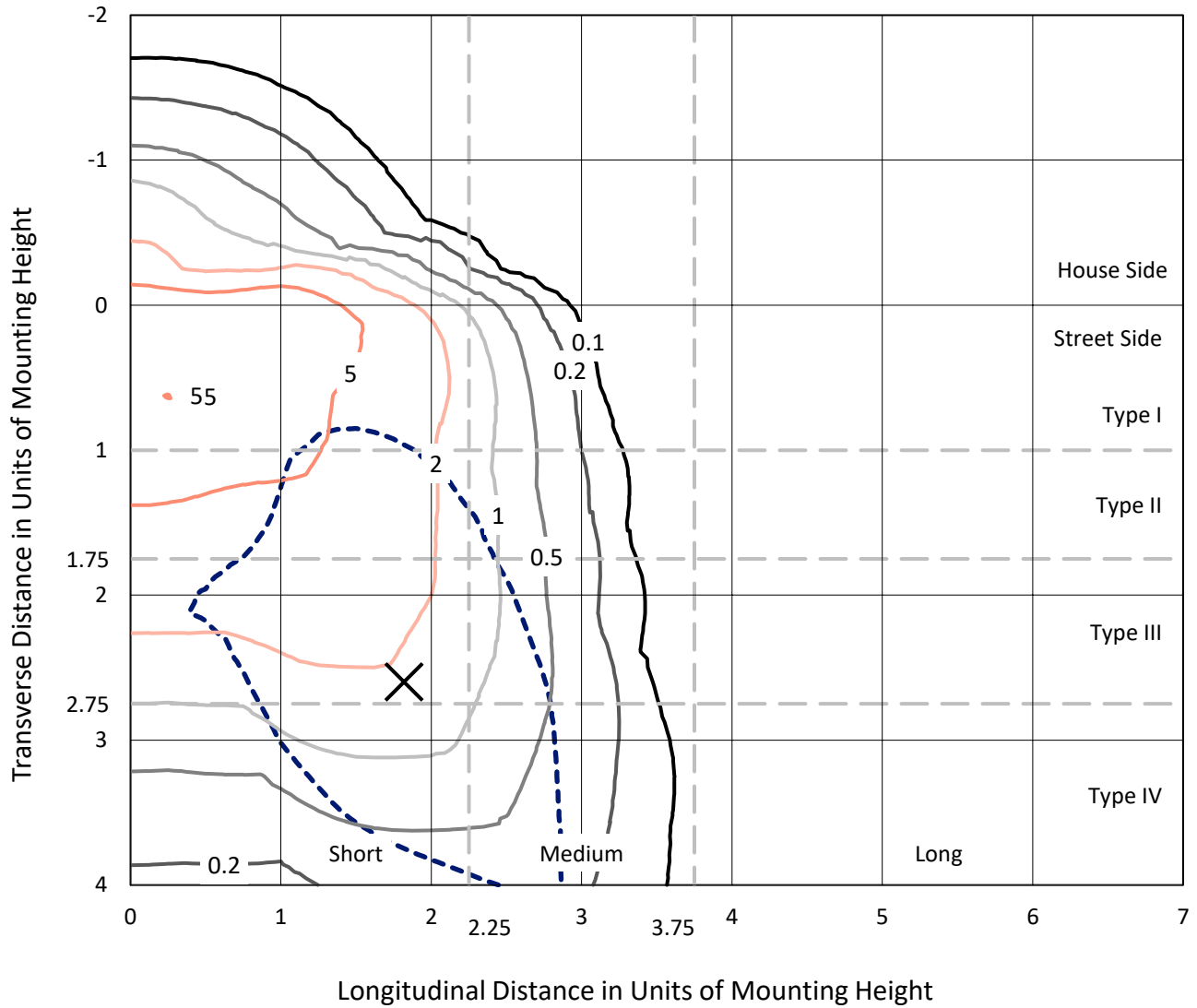
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

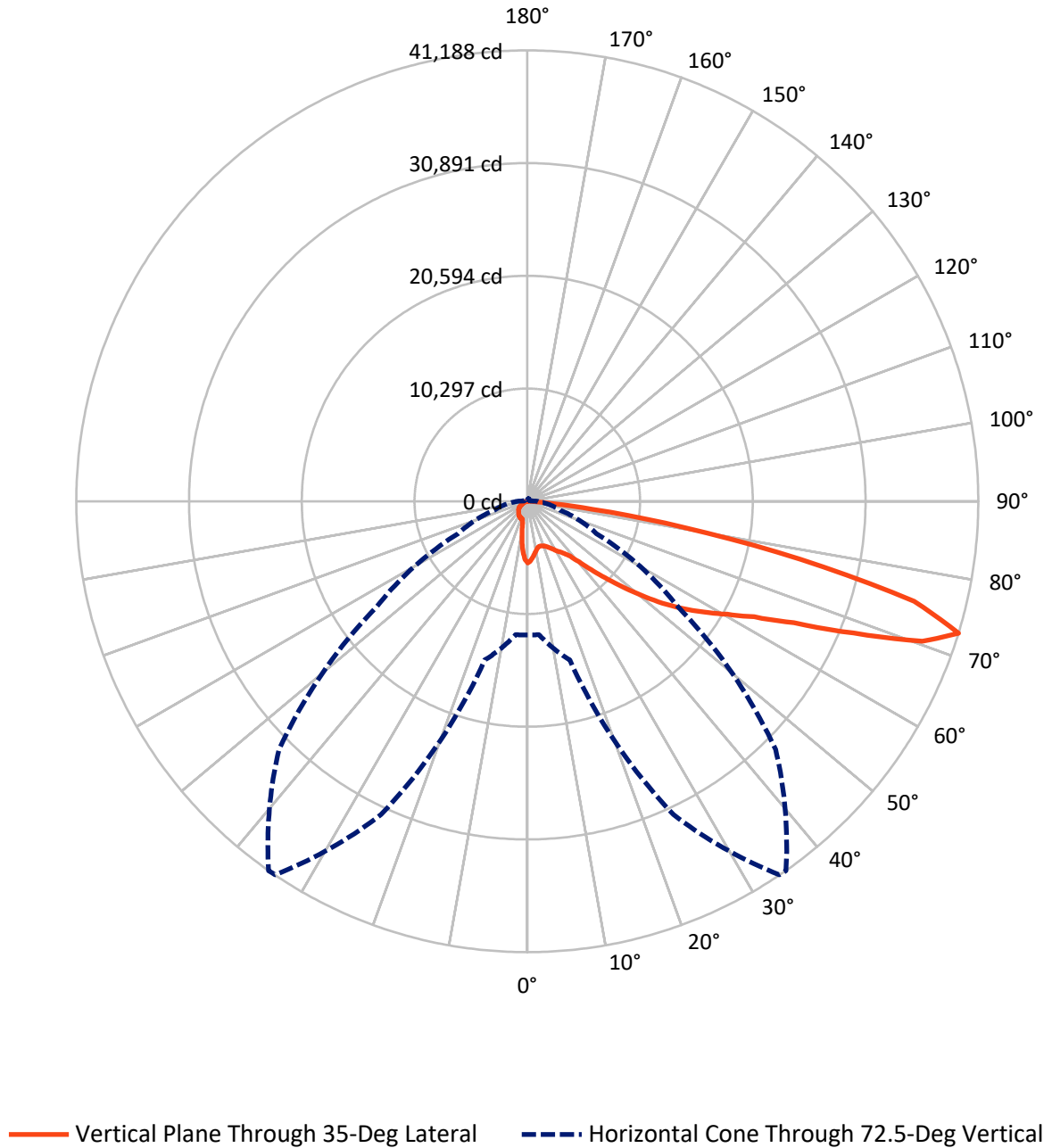
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4370.6	0.0	4370.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	34463.4	0.0	34463.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	38834.0	0.0	38834.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	1.2
10°-20°	1082.0	2.8
20°-30°	1757.6	4.5
30°-40°	2932.6	7.6
40°-50°	5548.5	14.3
50°-60°	8816.6	22.7
60°-70°	10906.7	28.1
70°-80°	6779.7	17.5
80°-90°	547.9	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°	38834.0	100.0
0°-180°	38834.0	100.0



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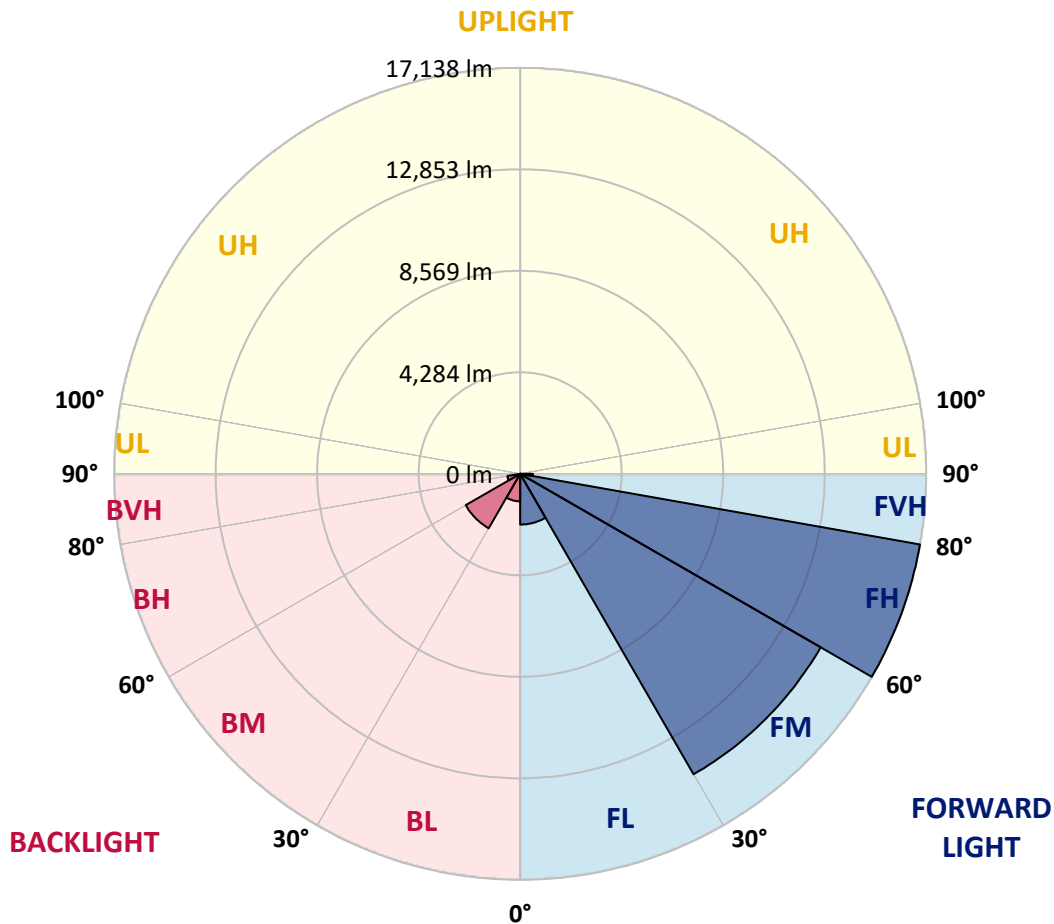
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.7	5.5			
FM (30°-60°)	14644.3	37.7			
FH (60°-80°)	17137.9	44.1			G5
FVH (80°-90°)	540.4	1.4			G4/750
BL (0°-30°)	1161.3	3.0	B3/2500		
BM (30°-60°)	2653.3	6.8	B3/5000		
BH (60°-80°)	548.4	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.5	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°	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3
2.5°	5377.9	5423.5	5432.0	5446.2	5446.2	5463.3	5491.8	5531.6	5597.0	5631.2
5°	4956.8	4991.0	5033.6	5067.8	5133.2	5141.8	5252.7	5360.9	5511.7	5625.5
7.5°	4532.8	4572.7	4629.6	4712.1	4797.5	4823.1	4991.0	5173.1	5412.1	5625.5
10°	4234.1	4236.9	4288.1	4370.6	4507.2	4538.5	4743.4	5002.3	5301.1	5591.4
12.5°	4066.2	4086.1	4108.9	4171.5	4302.4	4322.3	4541.4	4845.8	5190.1	5571.4
15°	4066.2	4080.4	4094.6	4125.9	4231.2	4248.3	4441.8	4746.3	5133.2	5580.0
17.5°	4108.9	4131.6	4120.2	4157.2	4268.2	4279.6	4450.3	4717.8	5130.4	5634.0
20°	4211.3	4228.4	4205.6	4228.4	4339.3	4362.1	4538.5	4771.9	5178.8	5727.9
22.5°	4373.5	4382.0	4328.0	4345.0	4458.9	4487.3	4692.2	4925.5	5295.4	5878.8
25°	4578.4	4595.4	4512.9	4532.8	4641.0	4675.1	4911.3	5156.0	5480.4	6086.5
27.5°	4814.5	4823.1	4751.9	4749.1	4888.5	4936.9	5175.9	5440.5	5727.9	6348.3
30°	5084.9	5110.5	5042.2	5030.8	5207.2	5247.1	5483.2	5790.5	6092.2	6740.9
32.5°	5298.3	5318.2	5278.4	5306.8	5486.1	5517.4	5856.0	6285.7	6664.1	7298.6
35°	5605.6	5617.0	5525.9	5577.1	5782.0	5861.7	6365.3	6979.9	7384.0	7998.6
37.5°	6718.2	6718.2	6331.2	6077.9	6274.3	6345.4	7062.5	7853.5	8271.8	8937.6
40°	8257.6	8232.0	7665.7	7147.8	7122.2	7261.7	8055.5	8954.7	9418.5	10064.4
42.5°	9899.4	9859.6	9088.4	8576.3	8490.9	8539.3	9202.3	10312.0	10784.3	11438.8
45°	11356.3	11344.9	10639.2	9950.6	9797.0	9950.6	10633.5	11899.8	12238.4	12927.0
47.5°	12577.0	12577.0	12062.0	11612.4	11532.7	11623.8	12571.3	13661.1	13629.8	14511.9
50°	13982.7	13971.3	13481.9	13288.4	13370.9	13498.9	14802.2	15516.4	15069.6	16068.4
52.5°	14967.2	15035.5	14867.6	14836.3	15257.4	15479.4	17067.2	17331.8	16358.6	17545.2
55°	15746.9	15826.5	16020.0	16239.1	17050.1	17340.3	19261.0	19053.3	17437.1	18825.7
57.5°	16850.9	16737.1	17035.9	17468.4	18780.1	19130.1	21386.6	20678.1	18304.9	19864.3
60°	18191.1	18208.2	18259.4	18805.7	20507.3	20956.9	23480.9	22214.6	18862.7	20501.6
62.5°	19801.7	19827.3	19932.5	20772.0	22826.4	23250.4	25711.7	23472.3	19118.7	20322.4
65°	19690.7	19798.8	20974.0	23845.1	26351.9	26770.2	28315.3	24354.4	18731.8	18683.4
67.5°	17937.9	18114.3	20080.5	27515.7	31667.3	32133.9	31462.4	24528.0	17061.5	14529.0
70°	15638.7	15701.3	18065.9	30816.5	37822.0	38294.4	34279.4	22618.7	12946.9	8103.9
72.5°	12212.8	12227.0	15001.3	31581.9	41162.6	41188.2	32068.5	16791.1	6962.9	3112.9
75°	8724.2	8638.9	10047.4	25612.1	36214.4	36504.6	24041.4	7876.3	2660.5	1471.1
77.5°	4678.0	4771.9	5685.3	15189.1	25017.4	25512.5	13117.6	2270.7	1354.4	1001.6
80°	1445.5	1525.2	2330.4	6954.3	14170.5	14469.2	4862.9	1010.1	944.7	714.2
82.5°	455.3	472.3	1087.0	2922.3	5881.6	6018.2	1408.5	571.9	645.9	472.3
85°	130.9	133.7	483.7	1089.8	1454.0	1482.5	395.5	221.9	369.9	293.1
87.5°	14.2	45.5	182.1	182.1	128.0	125.2	42.7	48.4	105.3	37.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5628.3	0°	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3	5628.3
5654.0	2.5°	5639.7	5642.6	5605.6	5543.0	5474.7	5417.8	5346.6	5289.7	5249.9	5238.5
5705.2	5°	5679.6	5659.6	5554.4	5363.7	5136.1	4939.7	4720.6	4547.1	4433.2	4384.9
5759.2	7.5°	5739.3	5682.4	5451.9	5076.3	4641.0	4254.0	3861.3	3556.8	3363.4	3266.6
5810.5	10°	5790.5	5676.7	5281.2	4660.9	3995.0	3408.9	2879.6	2512.6	2307.7	2210.9
5870.2	12.5°	5838.9	5673.9	5059.3	4168.6	3266.6	2549.5	2057.3	1875.2	1818.3	1798.3
5967.0	15°	5930.0	5682.4	4780.4	3605.2	2541.0	1926.4	1747.1	1744.3	1755.7	1750.0
6114.9	17.5°	6055.2	5690.9	4464.5	3007.7	1960.5	1698.7	1690.2	1715.8	1732.9	1724.4
6299.9	20°	6217.4	5725.1	4128.8	2415.8	1684.5	1641.8	1661.8	1684.5	1698.7	1684.5
6547.4	22.5°	6445.0	5784.8	3761.7	1940.6	1596.3	1607.7	1624.8	1650.4	1664.6	1644.7
6863.3	25°	6723.9	5878.8	3400.3	1687.4	1553.6	1567.9	1593.5	1621.9	1639.0	1619.1
7261.7	27.5°	7085.2	6029.6	3067.4	1630.5	1510.9	1519.5	1556.5	1599.2	1621.9	1596.3
7827.9	30°	7608.8	6277.1	2780.0	1656.1	1485.3	1465.4	1516.6	1576.4	1602.0	1579.2
8599.0	32.5°	8303.1	6627.1	2603.6	1695.9	1474.0	1402.8	1451.2	1528.0	1570.7	1556.5
9606.3	35°	9213.6	7159.2	2535.3	1741.4	1465.4	1337.4	1371.5	1454.0	1528.0	1542.2
10875.4	37.5°	10317.7	7899.0	2555.2	1761.3	1439.8	1283.3	1300.4	1371.5	1468.3	1513.8
12303.8	40°	11572.5	8761.2	2669.1	1741.4	1411.4	1237.8	1240.6	1294.7	1380.1	1448.3
13840.4	42.5°	12867.2	9768.5	2879.6	1667.4	1385.7	1197.9	1189.4	1226.4	1283.3	1331.7
15374.1	45°	14099.3	10804.3	3087.3	1565.0	1354.4	1158.1	1138.2	1152.4	1163.8	1183.7
16868.0	47.5°	15174.9	11532.7	3027.6	1471.1	1311.8	1112.6	1078.4	1072.7	1038.6	1035.8
18202.5	50°	15917.6	11692.1	2689.0	1377.2	1249.2	1061.4	1007.3	973.2	913.4	884.9
19201.3	52.5°	16153.8	11063.2	2196.7	1283.3	1146.7	993.1	916.2	862.2	788.2	762.6
19776.0	55°	15840.8	9831.1	1755.7	1169.5	1004.5	902.0	816.7	745.5	685.8	654.5
19838.6	57.5°	15075.3	8263.3	1388.6	1035.8	853.6	799.6	714.2	643.1	591.9	560.6
19144.4	60°	13806.2	6561.7	1098.4	876.4	728.4	688.6	600.4	554.9	509.3	472.3
17351.7	62.5°	11879.9	4683.7	862.2	694.3	608.9	563.4	512.2	478.0	424.0	372.8
14127.8	65°	9270.6	2865.4	665.8	509.3	489.4	466.7	435.4	404.1	338.6	287.4
9216.5	67.5°	5847.5	1357.3	475.2	384.1	387.0	375.6	361.4	335.8	287.4	241.9
4128.8	70°	2575.2	657.3	313.0	293.1	287.4	287.4	298.8	290.2	244.7	202.0
1434.1	72.5°	876.4	352.8	233.3	221.9	207.7	204.9	250.4	241.9	196.3	156.5
714.2	75°	458.1	236.2	170.7	159.3	125.2	150.8	199.2	187.8	139.4	102.4
472.3	77.5°	298.8	167.9	116.7	102.4	71.1	99.6	148.0	130.9	82.5	51.2
310.2	80°	187.8	111.0	68.3	48.4	34.1	54.1	79.7	56.9	31.3	11.4
182.1	82.5°	99.6	56.9	25.6	17.1	14.2	17.1	19.9	14.2	5.7	0.0
93.9	85°	39.8	19.9	8.5	5.7	2.8	0.0	5.7	2.8	0.0	0.0
17.1	87.5°	14.2	2.8	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>
5628.3
5258.4
4401.9
3280.8
2213.8
1792.6
1747.1
1721.5
1681.7
1641.8
1616.2
1596.3
1576.4
1556.5
1542.2
1525.2
1471.1
1351.6
1195.1
1032.9
887.8
759.7
654.5
554.9
463.8
364.2
278.9
236.2
193.5
<i>148.0</i>
93.9
45.5
8.5
0.0
0.0
0.0
0.0

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