

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: P944828

Luminaire Tested: **GALN-SB9D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944828
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-SB9D-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA 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: 48819 lumens
Efficiency: N/A
Efficacy: 74.2 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

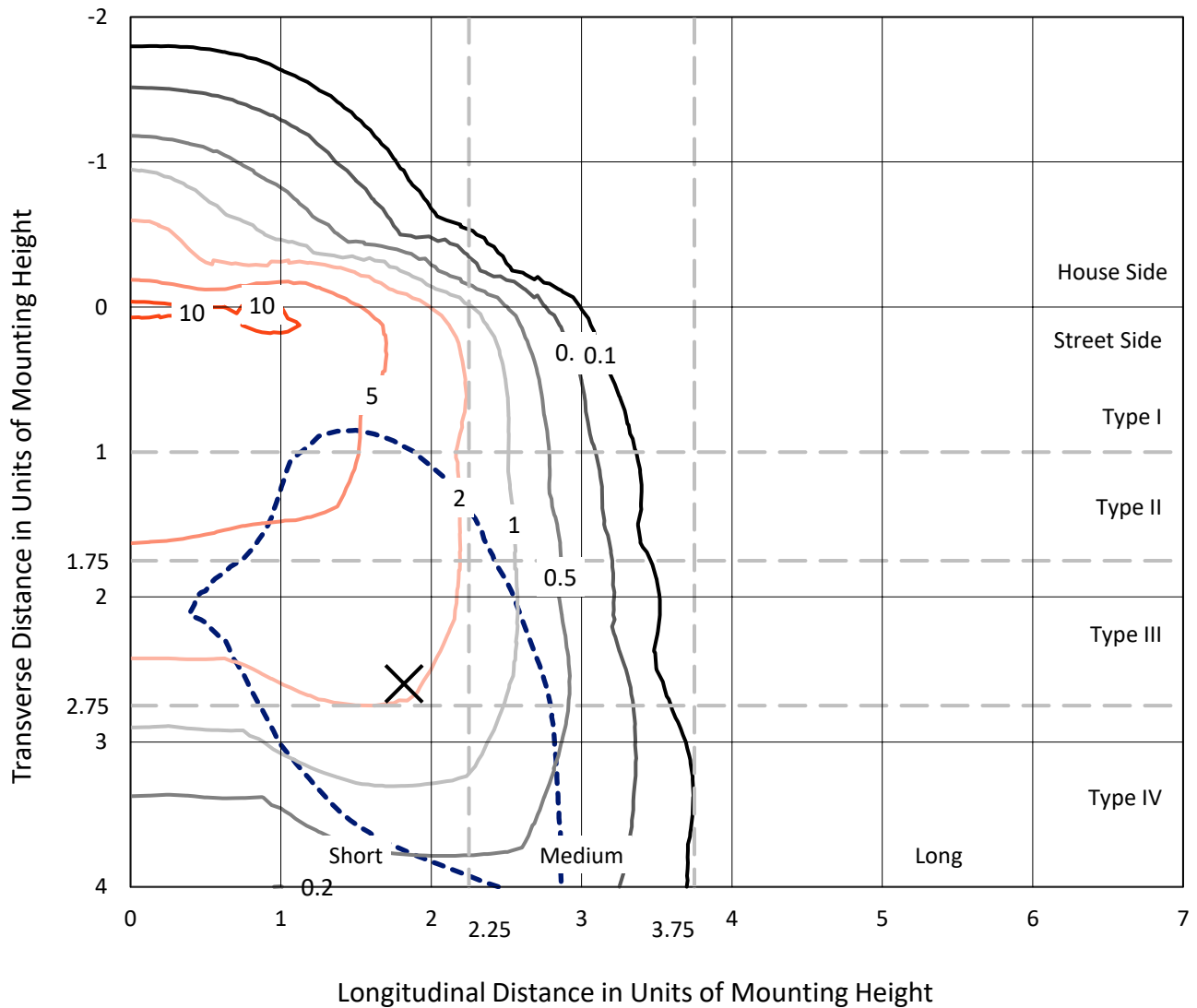
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

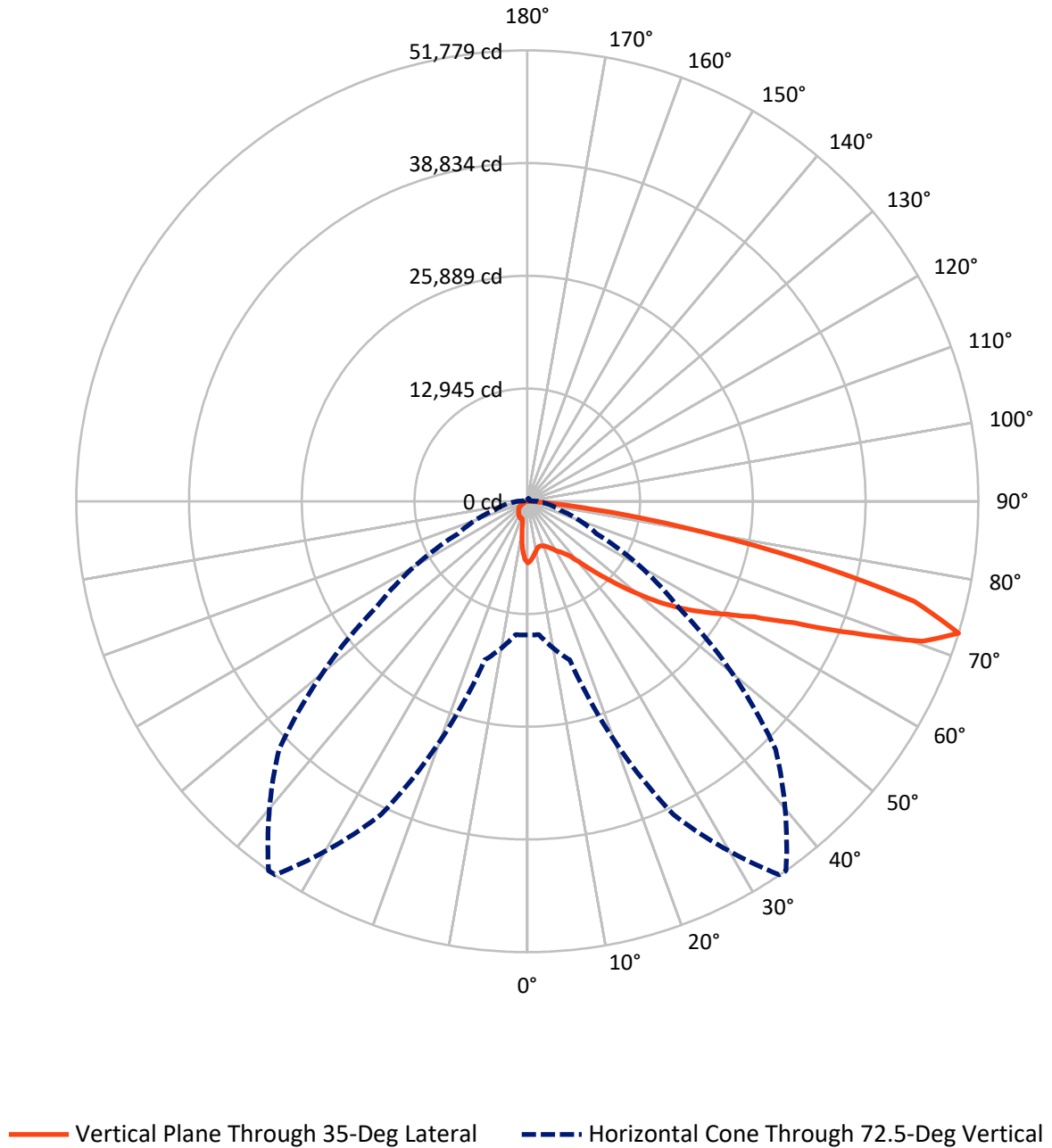
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	5494.4	0.0	5494.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	43324.7	0.0	43324.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	48819.0	0.0	48819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	1.2
10°-20°	1360.2	2.8
20°-30°	2209.5	4.5
30°-40°	3686.6	7.6
40°-50°	6975.1	14.3
50°-60°	11083.5	22.7
60°-70°	13711.0	28.1
70°-80°	8522.9	17.5
80°-90°	688.8	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°	48819.0	100.0
0°-180°	48819.0	100.0

Coefficient of Utilization



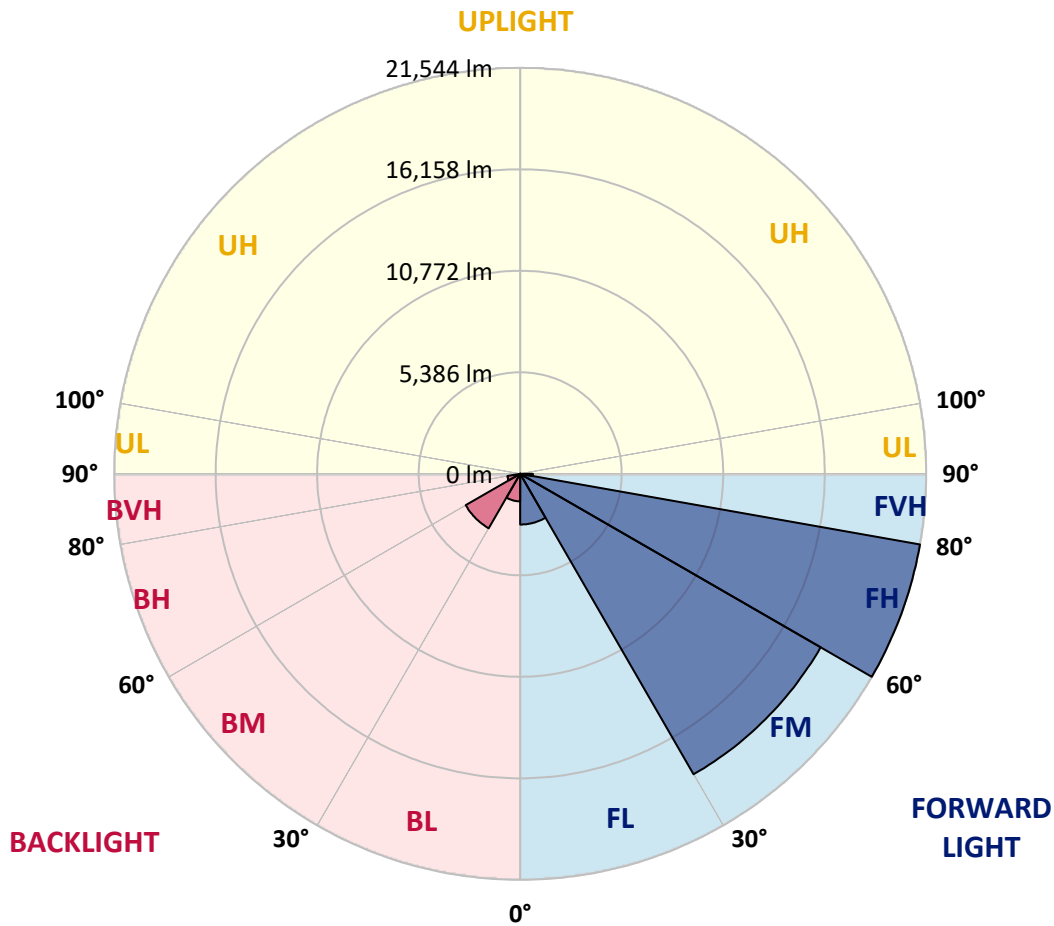
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.2	5.5			
FM (30°-60°)	18409.6	37.7			
FH (60°-80°)	21544.4	44.1			G5
FVH (80°-90°)	679.4	1.4			G4/750
BL (0°-30°)	1460.0	3.0	B3/2500		
BM (30°-60°)	3335.6	6.8	B3/5000		
BH (60°-80°)	689.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.4	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°	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5
2.5°	6760.7	6818.0	6828.7	6846.6	6846.6	6868.0	6903.8	6953.9	7036.2	7079.1
5°	6231.3	6274.2	6327.9	6370.8	6453.1	6463.8	6603.3	6739.3	6928.8	7071.9
7.5°	5698.3	5748.4	5819.9	5923.7	6031.0	6063.2	6274.2	6503.2	6803.7	7071.9
10°	5322.7	5326.3	5390.7	5494.4	5666.1	5705.5	5963.0	6288.5	6664.1	7029.0
12.5°	5111.7	5136.7	5165.3	5244.0	5408.6	5433.6	5709.1	6091.8	6524.6	7004.0
15°	5111.7	5129.6	5147.5	5186.8	5319.2	5340.6	5583.9	5966.6	6453.1	7014.7
17.5°	5165.3	5194.0	5179.6	5226.1	5365.7	5380.0	5594.6	5930.8	6449.5	7082.7
20°	5294.1	5315.6	5287.0	5315.6	5455.1	5483.7	5705.5	5998.8	6510.3	7200.7
22.5°	5498.0	5508.7	5440.8	5462.2	5605.3	5641.1	5898.6	6192.0	6657.0	7390.3
25°	5755.6	5777.0	5673.3	5698.3	5834.3	5877.2	6174.1	6481.7	6889.5	7651.4
27.5°	6052.5	6063.2	5973.8	5970.2	6145.5	6206.3	6506.8	6839.4	7200.7	7980.5
30°	6392.3	6424.5	6338.6	6324.3	6546.1	6596.2	6893.1	7279.4	7658.6	8474.2
32.5°	6660.6	6685.6	6635.5	6671.3	6896.7	6936.0	7361.7	7901.8	8377.6	9175.3
35°	7046.9	7061.2	6946.7	7011.1	7268.7	7368.8	8002.0	8774.6	9282.6	10055.2
37.5°	8445.5	8445.5	7959.1	7640.7	7887.5	7976.9	8878.4	9872.8	10398.6	11235.7
40°	10380.8	10348.6	9636.7	8985.7	8953.5	9128.8	10126.8	11257.1	11840.2	12652.2
42.5°	12444.7	12394.7	11425.3	10781.4	10674.1	10734.9	11568.4	12963.4	13557.2	14380.0
45°	14276.2	14261.9	13374.8	12509.1	12316.0	12509.1	13367.6	14959.4	15385.1	16250.8
47.5°	15810.8	15810.8	15163.3	14598.2	14498.0	14612.5	15803.6	17173.7	17134.3	18243.2
50°	17577.9	17563.6	16948.3	16705.1	16808.8	16969.8	18608.1	19505.9	18944.3	20199.9
52.5°	18815.6	18901.4	18690.4	18651.0	19180.4	19459.4	21455.5	21788.1	20564.8	22056.4
55°	19795.7	19895.8	20139.1	20414.5	21434.0	21798.9	24213.4	23952.3	21920.5	23666.1
57.5°	21183.6	21040.5	21416.1	21959.8	23608.9	24048.9	26885.5	25994.8	23011.5	24971.8
60°	22868.4	22889.9	22954.3	23641.1	25780.2	26345.4	29518.3	27926.4	23712.6	25773.0
62.5°	24893.1	24925.3	25057.6	26112.9	28695.5	29228.5	32322.7	29507.5	24034.6	25547.7
65°	24753.6	24889.5	26366.8	29976.1	33127.6	33653.4	35595.8	30616.4	23548.1	23487.3
67.5°	22550.1	22771.8	25243.6	34590.6	39809.6	40396.2	39552.0	30834.6	21448.3	18264.7
70°	19659.8	19738.5	22711.0	38740.0	47546.9	48140.7	43093.4	28434.4	16275.8	10187.6
72.5°	15352.9	15370.8	18858.5	39702.3	51746.4	51778.6	40314.0	21108.5	8753.2	3913.4
75°	10967.4	10860.1	12630.8	32197.5	45525.8	45890.7	30222.9	9901.4	3344.6	1849.4
77.5°	5880.8	5998.8	7147.1	19094.6	31449.9	32072.3	16490.4	2854.5	1702.7	1259.1
80°	1817.2	1917.3	2929.6	8742.4	17814.0	18189.6	6113.3	1269.9	1187.6	897.9
82.5°	572.3	593.8	1366.5	3673.7	7393.9	7565.6	1770.7	719.0	812.0	593.8
85°	164.5	168.1	608.1	1370.0	1827.9	1863.7	497.2	279.0	465.0	368.4
87.5°	17.9	57.2	228.9	228.9	161.0	157.4	53.7	60.8	132.4	46.5
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°
7075.5	0°	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5	7075.5
7107.7	2.5°	7089.8	7093.4	7046.9	6968.2	6882.3	6810.8	6721.4	6649.8	6599.8	6585.4
7172.1	5°	7139.9	7114.9	6982.5	6742.8	6456.7	6209.9	5934.4	5716.2	5573.1	5512.3
7240.1	7.5°	7215.0	7143.5	6853.7	6381.6	5834.3	5347.8	4854.1	4471.4	4228.1	4106.5
7304.4	10°	7279.4	7136.3	6639.1	5859.3	5022.3	4285.4	3620.0	3158.6	2901.0	2779.4
7379.6	12.5°	7340.2	7132.7	6360.1	5240.5	4106.5	3205.1	2586.2	2357.3	2285.8	2260.7
7501.2	15°	7454.7	7143.5	6009.5	4532.2	3194.4	2421.7	2196.3	2192.8	2207.1	2199.9
7687.2	17.5°	7612.1	7154.2	5612.5	3781.0	2464.6	2135.5	2124.8	2157.0	2178.5	2167.7
7919.7	20°	7816.0	7197.1	5190.4	3037.0	2117.6	2064.0	2089.0	2117.6	2135.5	2117.6
8230.9	22.5°	8102.1	7272.3	4728.9	2439.6	2006.8	2021.1	2042.5	2074.7	2092.6	2067.6
8628.0	25°	8452.7	7390.3	4274.6	2121.2	1953.1	1971.0	2003.2	2038.9	2060.4	2035.4
9128.8	27.5°	8907.0	7579.9	3856.1	2049.7	1899.4	1910.2	1956.7	2010.3	2038.9	2006.8
9840.6	30°	9565.2	7891.1	3494.8	2081.9	1867.2	1842.2	1906.6	1981.7	2013.9	1985.3
10810.0	32.5°	10438.0	8331.1	3273.0	2132.0	1852.9	1763.5	1824.3	1920.9	1974.6	1956.7
12076.3	35°	11582.7	9000.0	3187.2	2189.2	1842.2	1681.2	1724.2	1827.9	1920.9	1938.8
13671.7	37.5°	12970.6	9930.0	3212.2	2214.2	1810.0	1613.3	1634.7	1724.2	1845.8	1903.0
15467.4	40°	14548.1	11013.9	3355.3	2189.2	1774.2	1556.0	1559.6	1627.6	1734.9	1820.7
17399.0	42.5°	16175.7	12280.2	3620.0	2096.2	1742.0	1506.0	1495.2	1541.7	1613.3	1674.1
19327.1	45°	17724.5	13582.3	3881.2	1967.4	1702.7	1455.9	1430.8	1448.7	1463.0	1488.1
21205.1	47.5°	19076.7	14498.0	3806.0	1849.4	1649.0	1398.6	1355.7	1348.6	1305.6	1302.1
22882.7	50°	20010.3	14698.3	3380.4	1731.3	1570.3	1334.3	1266.3	1223.4	1148.3	1112.5
24138.3	52.5°	20307.2	13907.8	2761.5	1613.3	1441.6	1248.4	1151.8	1083.9	990.9	958.7
24860.9	55°	19913.7	12358.9	2207.1	1470.2	1262.7	1133.9	1026.6	937.2	862.1	822.7
24939.6	57.5°	18951.5	10387.9	1745.6	1302.1	1073.1	1005.2	897.9	808.4	744.0	704.7
24066.7	60°	17356.1	8248.8	1380.8	1101.7	915.7	865.7	754.8	697.5	640.3	593.8
21813.2	62.5°	14934.4	5887.9	1083.9	872.8	765.5	708.3	643.9	601.0	533.0	468.6
17760.3	65°	11654.2	3602.1	837.0	640.3	615.3	586.6	547.3	507.9	425.7	361.3
11586.2	67.5°	7350.9	1706.3	597.4	482.9	486.5	472.2	454.3	422.1	361.3	304.1
5190.4	70°	3237.3	826.3	393.5	368.4	361.3	361.3	375.6	364.9	307.6	254.0
1802.9	72.5°	1101.7	443.6	293.3	279.0	261.1	257.6	314.8	304.1	246.8	196.7
897.9	75°	575.9	296.9	214.6	200.3	157.4	189.6	250.4	236.1	175.3	128.8
593.8	77.5°	375.6	211.0	146.7	128.8	89.4	125.2	186.0	164.5	103.7	64.4
389.9	80°	236.1	139.5	85.9	60.8	42.9	68.0	100.2	71.5	39.3	14.3
228.9	82.5°	125.2	71.5	32.2	21.5	17.9	21.5	25.0	17.9	7.2	0.0
118.0	85°	50.1	25.0	10.7	7.2	3.6	0.0	7.2	3.6	0.0	0.0
21.5	87.5°	17.9	3.6	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>
7075.5
6610.5
5533.8
4124.4
2783.0
2253.6
2196.3
2164.1
2114.1
2064.0
2031.8
2006.8
1981.7
1956.7
1938.8
1917.3
1849.4
1699.1
1502.4
1298.5
1116.1
955.1
822.7
697.5
583.1
457.9
350.6
296.9
243.2
186.0
118.0
57.2
10.7
0.0
0.0
0.0
0.0

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