

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: P943388

Luminaire Tested: **GALN-SB7D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943388
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-SB7D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 49235 lumens
Efficiency: N/A
Efficacy: 96.0 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

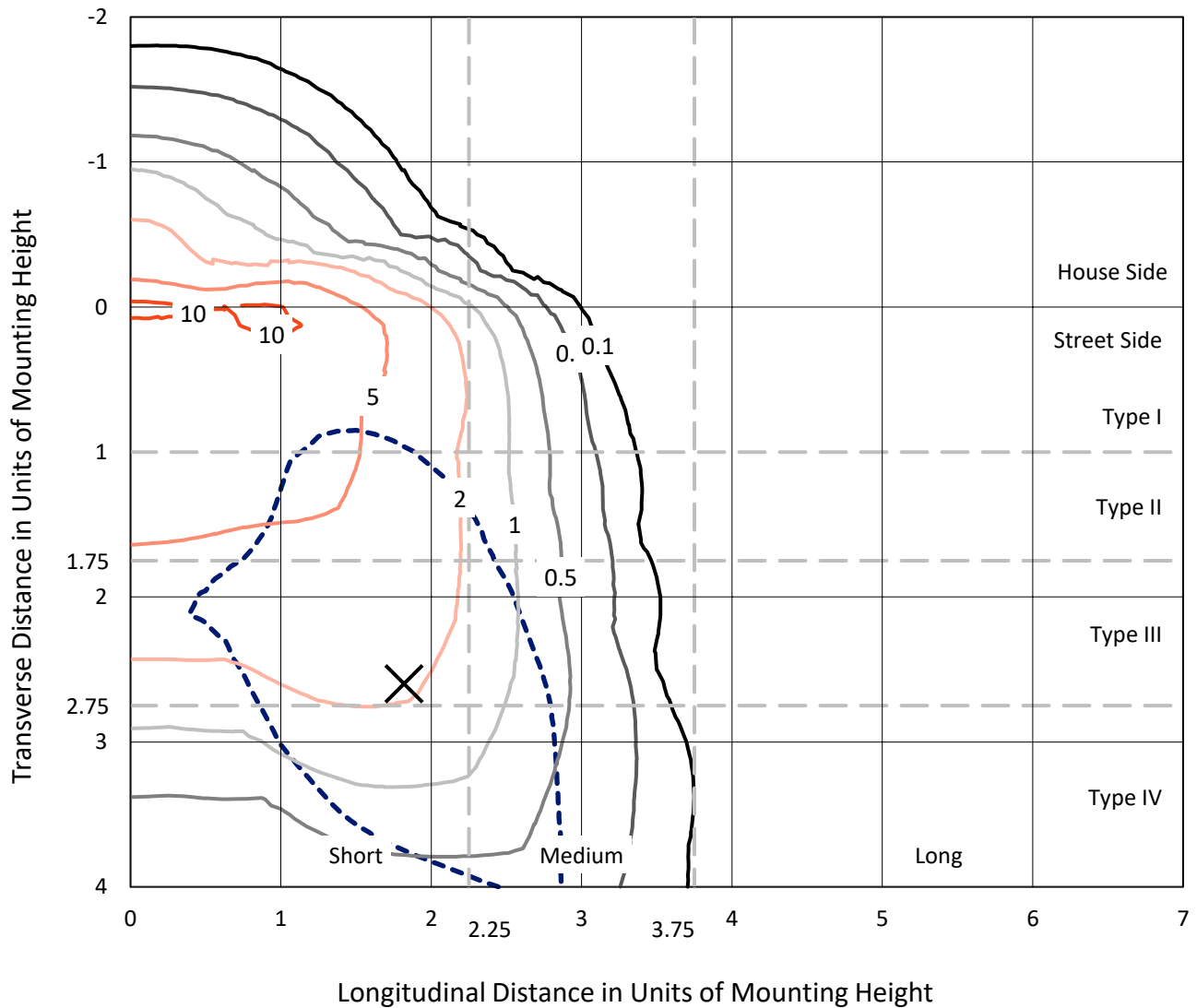
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

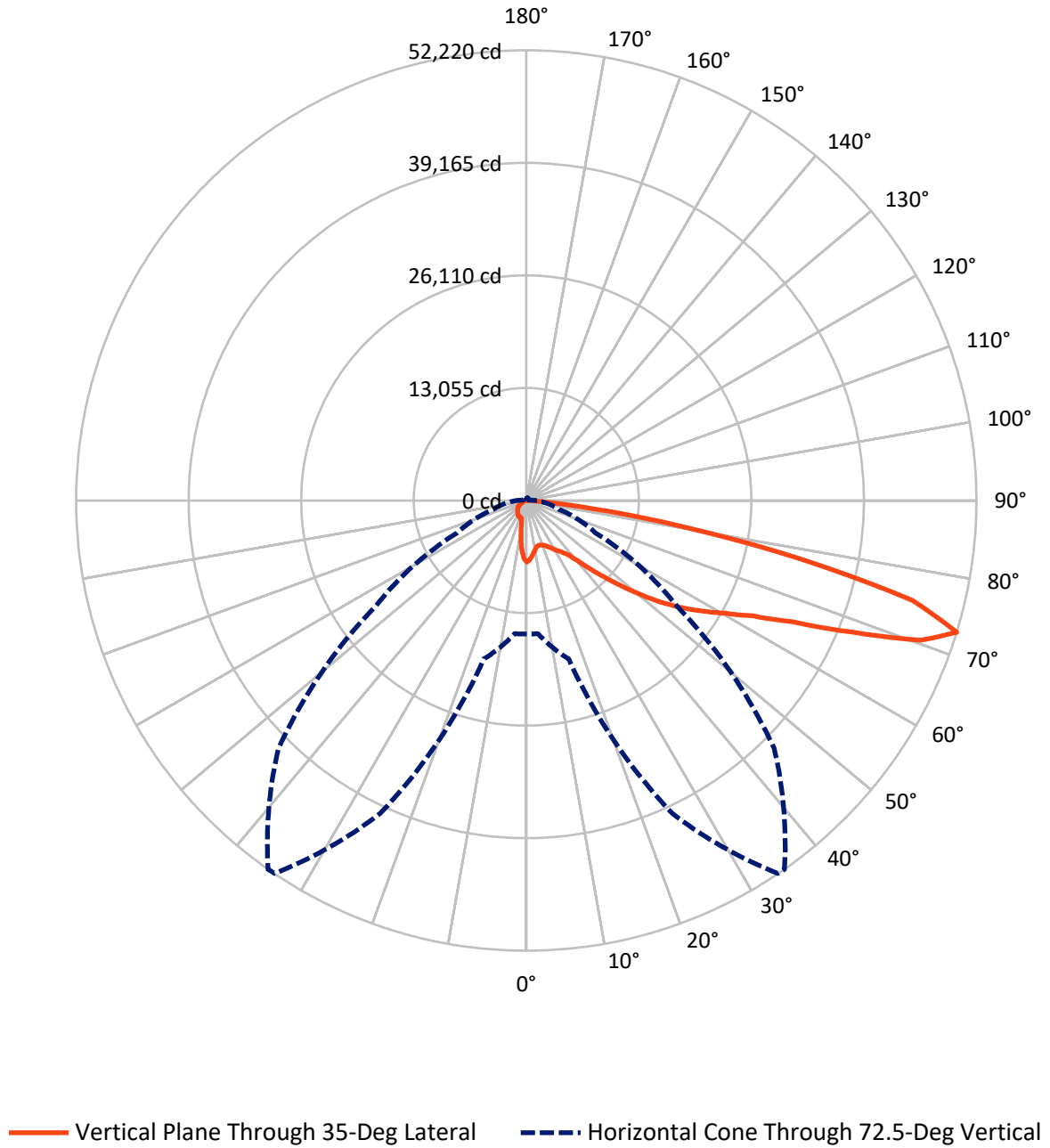
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	5541.2	0.0	5541.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	43693.8	0.0	43693.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	49235.0	0.0	49235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.4	1.2
10°-20°	1371.8	2.8
20°-30°	2228.4	4.5
30°-40°	3718.0	7.6
40°-50°	7034.6	14.3
50°-60°	11177.9	22.7
60°-70°	13827.9	28.1
70°-80°	8595.5	17.5
80°-90°	694.7	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°	49235.0	100.0
0°-180°	49235.0	100.0

Coefficient of Utilization



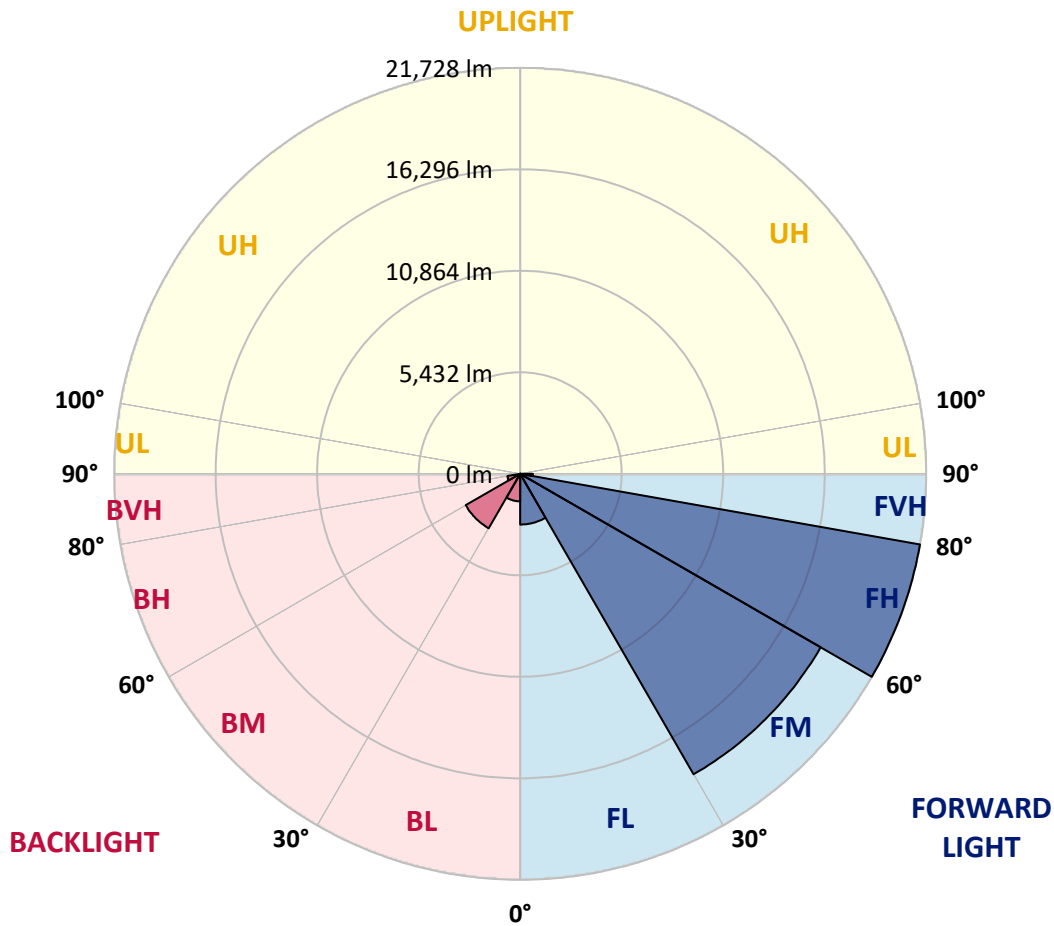
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.1	5.5			
FM (30°-60°)	18566.5	37.7			
FH (60°-80°)	21728.0	44.1			G5
FVH (80°-90°)	685.2	1.4			G4/750
BL (0°-30°)	1472.4	3.0	B3/2500		
BM (30°-60°)	3364.0	6.8	B3/5000		
BH (60°-80°)	695.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.5	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°	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8
2.5°	6818.3	6876.1	6886.9	6904.9	6904.9	6926.6	6962.6	7013.1	7096.1	7139.4
5°	6284.4	6327.7	6381.8	6425.1	6508.1	6518.9	6659.6	6796.7	6987.9	7132.2
7.5°	5746.9	5797.4	5869.5	5974.2	6082.4	6114.9	6327.7	6558.6	6861.6	7132.2
10°	5368.1	5371.7	5436.6	5541.2	5714.4	5754.1	6013.8	6342.1	6720.9	7088.9
12.5°	5155.2	5180.5	5209.4	5288.7	5454.7	5479.9	5757.7	6143.7	6580.2	7063.7
15°	5155.2	5173.3	5191.3	5231.0	5364.5	5386.1	5631.4	6017.5	6508.1	7074.5
17.5°	5209.4	5238.2	5223.8	5270.7	5411.4	5425.8	5642.3	5981.4	6504.5	7143.0
20°	5339.2	5360.9	5332.0	5360.9	5501.6	5530.4	5754.1	6049.9	6565.8	7262.1
22.5°	5544.9	5555.7	5487.1	5508.8	5653.1	5689.2	5948.9	6244.7	6713.7	7453.3
25°	5804.6	5826.2	5721.6	5746.9	5884.0	5927.3	6226.7	6536.9	6948.2	7716.6
27.5°	6104.0	6114.9	6024.7	6021.1	6197.8	6259.2	6562.2	6897.7	7262.1	8048.5
30°	6446.8	6479.2	6392.6	6378.2	6601.9	6652.4	6951.8	7341.4	7723.8	8546.4
32.5°	6717.3	6742.6	6692.1	6728.1	6955.4	6995.1	7424.4	7969.2	8449.0	9253.5
35°	7106.9	7121.4	7005.9	7070.9	7330.6	7431.6	8070.2	8849.4	9361.7	10140.9
37.5°	8517.5	8517.5	8026.9	7705.8	7954.7	8044.9	8954.0	9956.9	10487.2	11331.4
40°	10469.2	10436.7	9718.8	9062.3	9029.8	9206.6	10213.1	11353.1	11941.1	12760.0
42.5°	12550.8	12500.3	11522.6	10873.3	10765.0	10826.4	11666.9	13073.9	13672.7	14502.5
45°	14397.9	14383.4	13488.8	12615.7	12420.9	12615.7	13481.5	15086.9	15516.2	16389.3
47.5°	15945.5	15945.5	15292.6	14722.6	14621.5	14737.0	15938.3	17320.0	17280.3	18398.7
50°	17727.7	17713.2	17092.7	16847.4	16952.0	17114.4	18766.7	19672.2	19105.8	20372.0
52.5°	18975.9	19062.5	18849.6	18809.9	19343.9	19625.3	21638.3	21973.8	20740.0	22244.4
55°	19964.4	20065.4	20310.7	20588.5	21616.6	21984.6	24419.7	24156.4	22107.3	23867.8
57.5°	21364.1	21219.8	21598.6	22147.0	23810.1	24253.8	27114.6	26216.3	23207.6	25184.5
60°	23063.3	23084.9	23149.9	23842.5	25999.9	26569.9	29769.8	28164.4	23914.7	25992.6
62.5°	25105.2	25137.6	25271.1	26335.4	28940.0	29477.6	32598.1	29759.0	24239.4	25765.4
65°	24964.5	25101.6	26591.5	30231.6	33409.8	33940.2	35899.1	30877.3	23748.7	23687.4
67.5°	22742.2	22965.9	25458.7	34885.3	40148.8	40740.5	39889.1	31097.4	21631.1	18420.3
70°	19827.3	19906.7	22904.6	39070.1	47952.0	48550.9	43460.6	28676.7	16414.5	10274.4
72.5°	15483.8	15501.8	19019.2	40040.6	52187.3	52219.8	40657.5	21288.4	8827.8	3946.7
75°	11060.9	10952.6	12738.4	32471.9	45913.7	46281.7	30480.5	9985.8	3373.1	1865.1
77.5°	5930.9	6049.9	7208.0	19257.3	31717.9	32345.6	16631.0	2878.9	1717.2	1269.9
80°	1832.7	1933.7	2954.6	8816.9	17965.8	18344.6	6165.4	1280.7	1197.7	905.5
82.5°	577.2	598.9	1378.1	3705.0	7456.9	7630.0	1785.8	725.1	818.9	598.9
85°	165.9	169.6	613.3	1381.7	1843.5	1879.6	501.5	281.4	469.0	371.6
87.5°	18.0	57.7	230.9	230.9	162.3	158.7	54.1	61.3	133.5	46.9
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°
7135.8	0°	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8	7135.8
7168.3	2.5°	7150.2	7153.8	7106.9	7027.6	6941.0	6868.8	6778.7	6706.5	6656.0	6641.6
7233.2	5°	7200.7	7175.5	7042.0	6800.3	6511.7	6262.8	5985.0	5764.9	5620.6	5559.3
7301.8	7.5°	7276.5	7204.3	6912.1	6435.9	5884.0	5393.3	4895.5	4509.5	4264.2	4141.5
7366.7	10°	7341.4	7197.1	6695.7	5909.2	5065.0	4321.9	3650.9	3185.5	2925.8	2803.1
7442.4	12.5°	7402.8	7193.5	6414.3	5285.1	4141.5	3232.4	2608.3	2377.4	2305.2	2280.0
7565.1	15°	7518.2	7204.3	6060.7	4570.8	3221.6	2442.3	2215.1	2211.4	2225.9	2218.7
7752.7	17.5°	7676.9	7215.2	5660.3	3813.2	2485.6	2153.7	2142.9	2175.4	2197.0	2186.2
7987.2	20°	7882.6	7258.5	5234.6	3062.8	2135.7	2081.6	2106.8	2135.7	2153.7	2135.7
8301.1	22.5°	8171.2	7334.2	4769.2	2460.4	2023.9	2038.3	2059.9	2092.4	2110.4	2085.2
8701.5	25°	8524.7	7453.3	4311.1	2139.3	1969.7	1987.8	2020.2	2056.3	2078.0	2052.7
9206.6	27.5°	8982.9	7644.5	3889.0	2067.1	1915.6	1926.5	1973.3	2027.5	2056.3	2023.9
9924.5	30°	9646.7	7958.3	3524.6	2099.6	1883.2	1857.9	1922.8	1998.6	2031.1	2002.2
10902.1	32.5°	10526.9	8402.1	3300.9	2150.1	1868.7	1778.5	1839.9	1937.3	1991.4	1973.3
12179.2	35°	11681.4	9076.7	3214.4	2207.8	1857.9	1695.6	1738.9	1843.5	1937.3	1955.3
13788.2	37.5°	13081.1	10014.7	3239.6	2233.1	1825.4	1627.0	1648.7	1738.9	1861.5	1919.2
15599.2	40°	14672.0	11107.8	3383.9	2207.8	1789.4	1569.3	1572.9	1641.5	1749.7	1836.3
17547.3	42.5°	16313.5	12384.8	3650.9	2114.0	1756.9	1518.8	1508.0	1554.9	1627.0	1688.3
19491.8	45°	17875.6	13698.0	3914.2	1984.2	1717.2	1468.3	1443.0	1461.1	1475.5	1500.8
21385.8	47.5°	19239.2	14621.5	3838.5	1865.1	1663.1	1410.6	1367.3	1360.1	1316.8	1313.2
23077.7	50°	20180.8	14823.6	3409.2	1746.1	1583.7	1345.6	1277.1	1233.8	1158.0	1122.0
24344.0	52.5°	20480.3	14026.3	2785.1	1627.0	1453.9	1259.0	1161.6	1093.1	999.3	966.8
25072.7	55°	20083.4	12464.2	2225.9	1482.7	1273.5	1143.6	1035.4	945.2	869.4	829.7
25152.1	57.5°	19113.0	10476.4	1760.5	1313.2	1082.3	1013.7	905.5	815.3	750.4	710.7
24271.8	60°	17504.0	8319.1	1392.5	1111.1	923.5	873.0	761.2	703.5	645.8	598.9
21999.1	62.5°	15061.7	5938.1	1093.1	880.3	772.0	714.3	649.4	606.1	537.5	472.6
17911.7	65°	11753.5	3632.8	844.2	645.8	620.5	591.6	552.0	512.3	429.3	364.4
11685.0	67.5°	7413.6	1720.8	602.5	487.0	490.6	476.2	458.2	425.7	364.4	306.6
5234.6	70°	3264.9	833.4	396.8	371.6	364.4	364.4	378.8	368.0	310.3	256.1
1818.2	72.5°	1111.1	447.3	295.8	281.4	263.4	259.7	317.5	306.6	248.9	198.4
905.5	75°	580.8	299.4	216.5	202.0	158.7	191.2	252.5	238.1	176.8	129.9
598.9	77.5°	378.8	212.8	147.9	129.9	90.2	126.3	187.6	165.9	104.6	64.9
393.2	80°	238.1	140.7	86.6	61.3	43.3	68.5	101.0	72.2	39.7	14.4
230.9	82.5°	126.3	72.2	32.5	21.6	18.0	21.6	25.3	18.0	7.2	0.0
119.1	85°	50.5	25.3	10.8	7.2	3.6	0.0	7.2	3.6	0.0	0.0
21.6	87.5°	18.0	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>
7135.8
6666.8
5580.9
4159.5
2806.7
2272.8
2215.1
2182.6
2132.1
2081.6
2049.1
2023.9
1998.6
1973.3
1955.3
1933.7
1865.1
1713.6
1515.2
1309.6
1125.6
963.2
829.7
703.5
588.0
461.8
353.5
299.4
245.3
187.6
119.1
57.7
10.8
0.0
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