

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: P942678

Luminaire Tested: **GALN-SB6D-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942678
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-SB6D-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 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: 49430 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

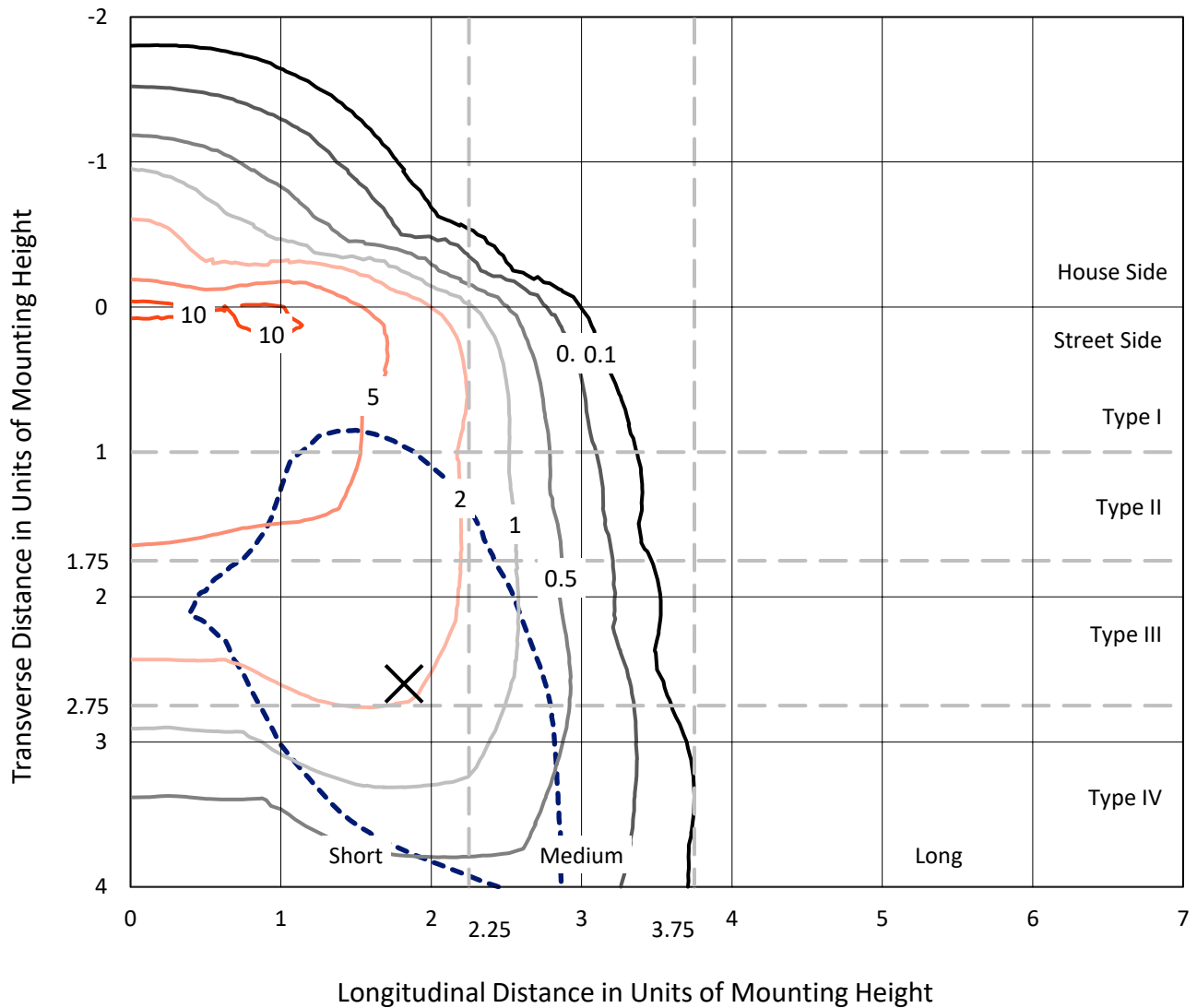
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

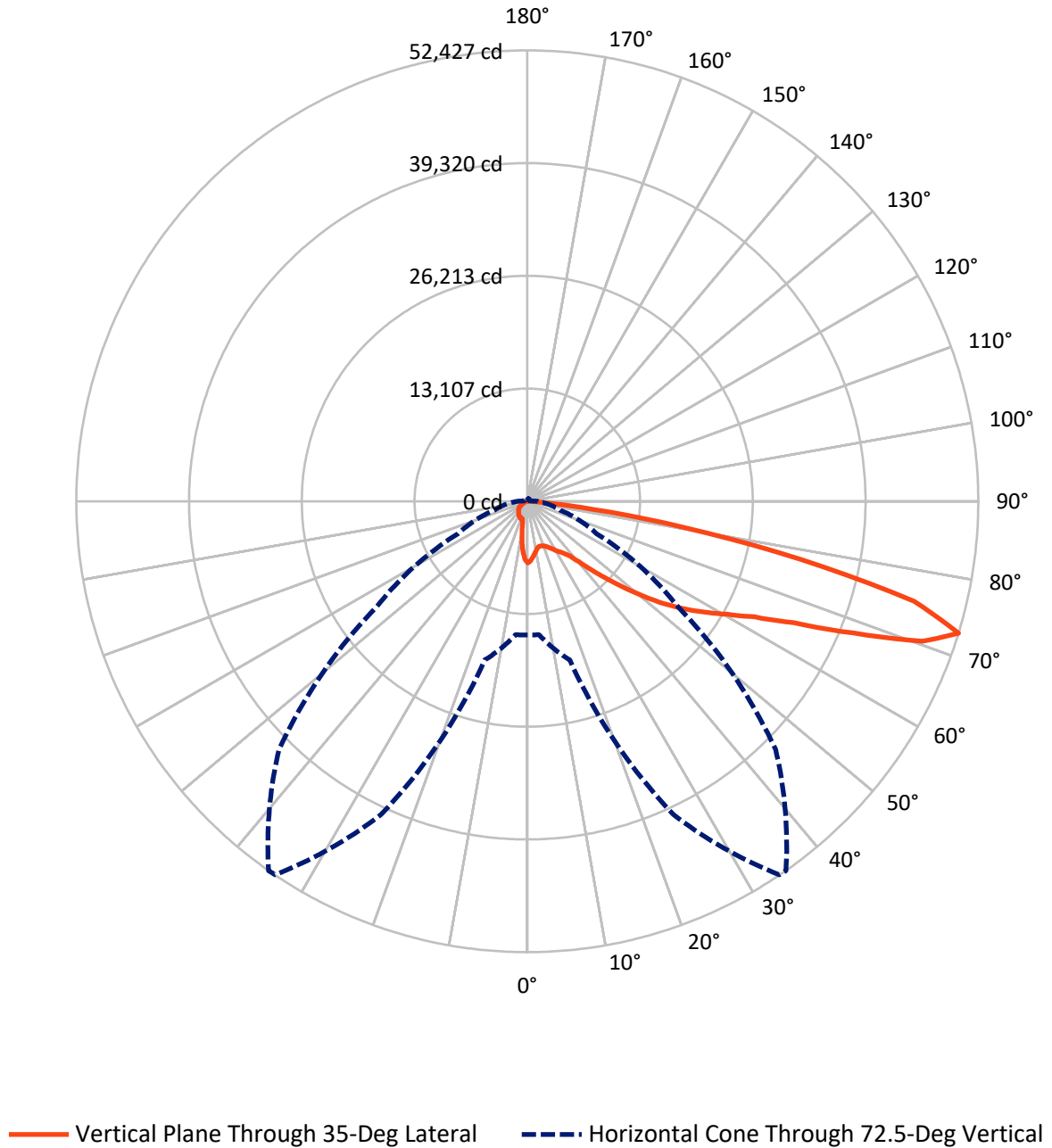
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	5563.1	0.0	5563.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	43866.9	0.0	43866.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	49430.0	0.0	49430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.7	1.2
10°-20°	1377.2	2.8
20°-30°	2237.2	4.5
30°-40°	3732.7	7.6
40°-50°	7062.4	14.3
50°-60°	11222.2	22.7
60°-70°	13882.6	28.1
70°-80°	8629.5	17.5
80°-90°	697.4	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°	49430.0	100.0
0°-180°	49430.0	100.0

Coefficient of Utilization



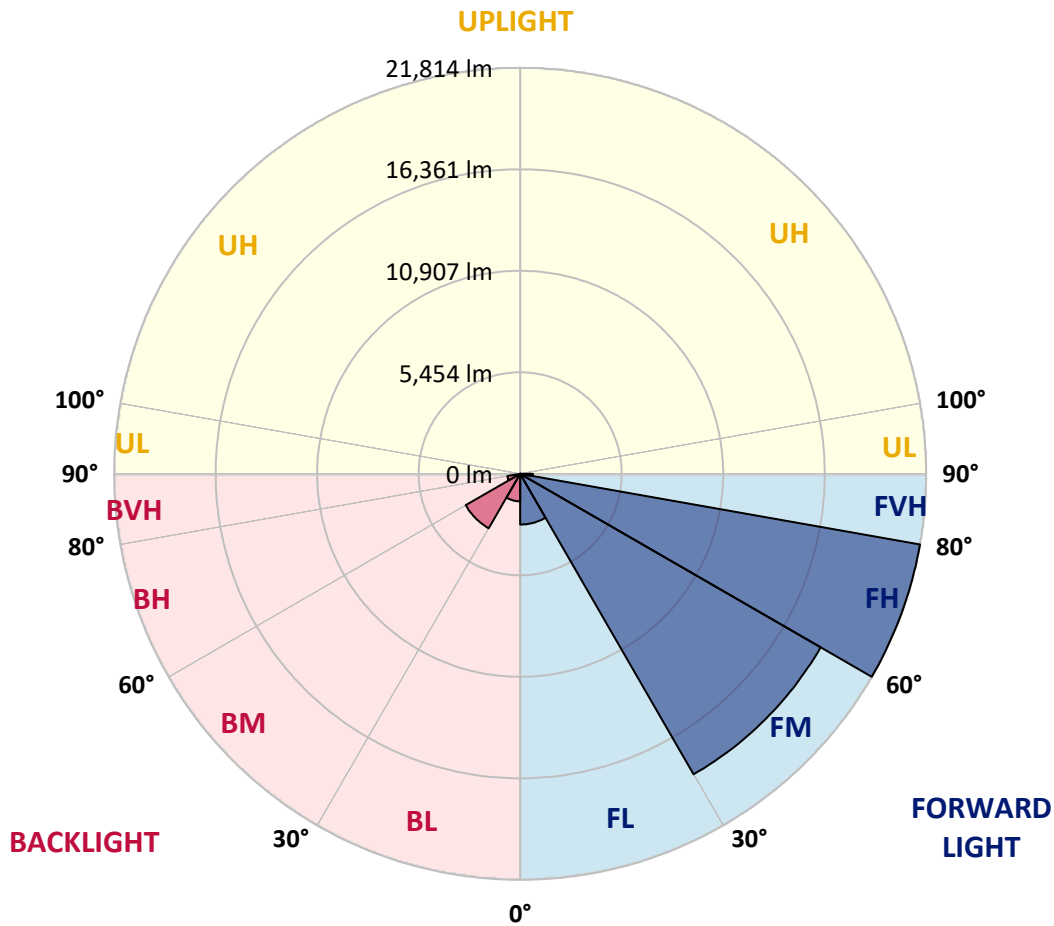
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.8	5.5			
FM (30°-60°)	18640.1	37.7			
FH (60°-80°)	21814.1	44.1			G5
FVH (80°-90°)	687.9	1.4			G4/750
BL (0°-30°)	1478.2	3.0	B3/2500		
BM (30°-60°)	3377.3	6.8	B3/5000		
BH (60°-80°)	698.1	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°	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1
2.5°	6845.3	6903.3	6914.2	6932.3	6932.3	6954.0	6990.2	7040.9	7124.2	7167.7
5°	6309.3	6352.8	6407.1	6450.6	6533.9	6544.7	6686.0	6823.6	7015.6	7160.4
7.5°	5769.6	5820.3	5892.8	5997.8	6106.5	6139.1	6352.8	6584.6	6888.8	7160.4
10°	5389.3	5393.0	5458.2	5563.2	5737.0	5776.9	6037.7	6367.3	6747.5	7117.0
12.5°	5175.7	5201.0	5230.0	5309.7	5476.3	5501.6	5780.5	6168.0	6606.3	7091.6
15°	5175.7	5193.8	5211.9	5251.7	5385.7	5407.5	5653.7	6041.3	6533.9	7102.5
17.5°	5230.0	5259.0	5244.5	5291.6	5432.8	5447.3	5664.6	6005.1	6530.2	7171.3
20°	5360.4	5382.1	5353.1	5382.1	5523.4	5552.3	5776.9	6073.9	6591.8	7290.8
22.5°	5566.8	5577.7	5508.9	5530.6	5675.5	5711.7	5972.5	6269.5	6740.3	7482.8
25°	5827.6	5849.3	5744.3	5769.6	5907.3	5950.7	6251.4	6562.8	6975.7	7747.2
27.5°	6128.2	6139.1	6048.5	6044.9	6222.4	6283.9	6588.2	6925.0	7290.8	8080.4
30°	6472.3	6504.9	6418.0	6403.5	6628.0	6678.7	6979.3	7370.5	7754.4	8580.2
32.5°	6743.9	6769.3	6718.6	6754.8	6983.0	7022.8	7453.8	8000.7	8482.4	9290.1
35°	7135.1	7149.6	7033.7	7098.9	7359.6	7461.1	8102.1	8884.5	9398.8	10181.1
37.5°	8551.2	8551.2	8058.7	7736.3	7986.2	8076.8	8989.5	9996.4	10528.8	11376.3
40°	10510.7	10478.1	9757.3	9098.1	9065.5	9243.0	10253.5	11398.0	11988.4	12810.6
42.5°	12600.5	12549.8	11568.3	10916.3	10807.7	10869.2	11713.1	13125.7	13726.9	14559.9
45°	14454.9	14440.4	13542.2	12665.7	12470.1	12665.7	13534.9	15146.7	15577.7	16454.2
47.5°	16008.7	16008.7	15353.1	14780.9	14679.5	14795.4	16001.4	17388.6	17348.8	18471.6
50°	17797.9	17783.4	17160.4	16914.1	17019.2	17182.2	18841.0	19750.1	19181.4	20452.7
52.5°	19051.1	19138.0	18924.3	18884.4	19420.5	19703.0	21724.0	22060.8	20822.1	22332.5
55°	20043.4	20144.9	20391.1	20670.0	21702.3	22071.7	24516.5	24252.1	22194.8	23962.3
57.5°	21448.7	21303.9	21684.2	22234.7	23904.4	24349.9	27222.0	26320.1	23299.5	25284.3
60°	23154.6	23176.4	23241.6	23937.0	26102.8	26675.1	29887.7	28276.0	24009.4	26095.6
62.5°	25204.6	25237.2	25371.2	26439.7	29054.7	29594.3	32727.2	29876.8	24335.4	25867.4
65°	25063.4	25201.0	26696.8	30351.3	33542.2	34074.6	36041.3	30999.6	23842.8	23781.2
67.5°	22832.3	23056.8	25559.6	35023.5	40307.8	40901.8	40047.0	31220.5	21716.7	18493.3
70°	19905.8	19985.5	22995.3	39224.9	48141.9	48743.2	43632.7	28790.3	16479.5	10315.1
72.5°	15545.1	15563.2	19094.5	40199.2	52394.0	52426.6	40818.5	21372.7	8862.7	3962.3
75°	11104.7	10996.0	12788.8	32600.5	46095.6	46465.0	30601.2	10025.3	3386.5	1872.5
77.5°	5954.4	6073.9	7236.5	19333.6	31843.5	32473.7	16696.8	2890.3	1724.0	1274.9
80°	1839.9	1941.3	2966.3	8851.9	18036.9	18417.2	6189.8	1285.8	1202.5	909.1
82.5°	579.5	601.2	1383.6	3719.7	7486.4	7660.3	1792.8	728.0	822.2	601.2
85°	166.6	170.2	615.7	1387.2	1850.8	1887.0	503.4	282.5	470.8	373.1
87.5°	18.1	57.9	231.8	231.8	163.0	159.4	54.3	61.6	134.0	47.1
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°
7164.1	0°	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1	7164.1
7196.7	2.5°	7178.6	7182.2	7135.1	7055.4	6968.5	6896.0	6805.5	6733.1	6682.4	6667.9
7261.9	5°	7229.3	7203.9	7069.9	6827.2	6537.5	6287.6	6008.7	5787.8	5642.9	5581.3
7330.7	7.5°	7305.3	7232.9	6939.5	6461.4	5907.3	5414.7	4914.9	4527.3	4281.1	4157.9
7395.9	10°	7370.5	7225.6	6722.2	5932.6	5085.1	4339.0	3665.3	3198.1	2937.3	2814.2
7471.9	12.5°	7432.1	7222.0	6439.7	5306.0	4157.9	3245.2	2618.6	2386.8	2314.4	2289.0
7595.1	15°	7548.0	7232.9	6084.7	4588.9	3234.3	2452.0	2223.8	2220.2	2234.7	2227.5
7783.4	17.5°	7707.3	7243.7	5682.7	3828.3	2495.5	2162.3	2151.4	2184.0	2205.7	2194.9
8018.8	20°	7913.8	7287.2	5255.3	3075.0	2144.1	2089.8	2115.2	2144.1	2162.3	2144.1
8333.9	22.5°	8203.5	7363.3	4788.1	2470.1	2031.9	2046.4	2068.1	2100.7	2118.8	2093.4
8736.0	25°	8558.5	7482.8	4328.1	2147.8	1977.5	1995.7	2028.2	2064.5	2086.2	2060.8
9243.0	27.5°	9018.5	7674.7	3904.4	2075.3	1923.2	1934.1	1981.2	2035.5	2064.5	2031.9
9963.8	30°	9684.9	7989.9	3538.6	2107.9	1890.6	1865.3	1930.5	2006.5	2039.1	2010.1
10945.3	32.5°	10568.6	8435.3	3314.0	2158.6	1876.1	1785.6	1847.2	1944.9	1999.3	1981.2
12227.4	35°	11727.6	9112.6	3227.1	2216.6	1865.3	1702.3	1745.7	1850.8	1944.9	1963.1
13842.8	37.5°	13132.9	10054.3	3252.4	2241.9	1832.7	1633.5	1655.2	1745.7	1868.9	1926.8
15661.0	40°	14730.2	11151.7	3397.3	2216.6	1796.4	1575.5	1579.1	1648.0	1756.6	1843.5
17616.8	42.5°	16378.1	12433.9	3665.3	2122.4	1763.9	1524.8	1513.9	1561.0	1633.5	1695.0
19569.0	45°	17946.4	13752.3	3929.7	1992.0	1724.0	1474.1	1448.7	1466.9	1481.3	1506.7
21470.5	47.5°	19315.4	14679.5	3853.7	1872.5	1669.7	1416.2	1372.7	1365.4	1322.0	1318.4
23169.1	50°	20260.8	14882.3	3422.7	1753.0	1590.0	1351.0	1282.1	1238.7	1162.6	1126.4
24440.4	52.5°	20561.4	14081.8	2796.1	1633.5	1459.6	1264.0	1166.2	1097.4	1003.3	970.7
25172.0	55°	20163.0	12513.6	2234.7	1488.6	1278.5	1148.1	1039.5	948.9	872.9	833.0
25251.7	57.5°	19188.7	10517.9	1767.5	1318.4	1086.6	1017.7	909.1	818.5	753.3	713.5
24368.0	60°	17573.3	8352.0	1398.0	1115.5	927.2	876.5	764.2	706.3	648.3	601.2
22086.2	62.5°	15121.3	5961.6	1097.4	883.7	775.1	717.1	651.9	608.5	539.7	474.5
17982.6	65°	11800.1	3647.2	847.5	648.3	623.0	594.0	554.1	514.3	431.0	365.8
11731.2	67.5°	7442.9	1727.6	604.9	489.0	492.6	478.1	460.0	427.4	365.8	307.9
5255.3	70°	3277.8	836.7	398.4	373.1	365.8	365.8	380.3	369.4	311.5	257.2
1825.4	72.5°	1115.5	449.1	297.0	282.5	264.4	260.8	318.7	307.9	249.9	199.2
909.1	75°	583.1	300.6	217.3	202.8	159.4	192.0	253.5	239.0	177.5	130.4
601.2	77.5°	380.3	213.7	148.5	130.4	90.5	126.8	188.3	166.6	105.0	65.2
394.8	80°	239.0	141.3	86.9	61.6	43.5	68.8	101.4	72.4	39.8	14.5
231.8	82.5°	126.8	72.4	32.6	21.7	18.1	21.7	25.4	18.1	7.2	0.0
119.5	85°	50.7	25.4	10.9	7.2	3.6	0.0	7.2	3.6	0.0	0.0
21.7	87.5°	18.1	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>
7164.1
6693.2
5603.0
4176.0
2817.8
2281.8
2223.8
2191.2
2140.5
2089.8
2057.2
2031.9
2006.5
1981.2
1963.1
1941.3
1872.5
1720.4
1521.2
1314.7
1130.0
967.0
833.0
706.3
590.4
463.6
354.9
300.6
246.3
<i>188.3</i>
119.5
57.9
10.9
0.0
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