

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: P943858

Luminaire Tested: **GALN-SB8C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943858  
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-SB8C-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

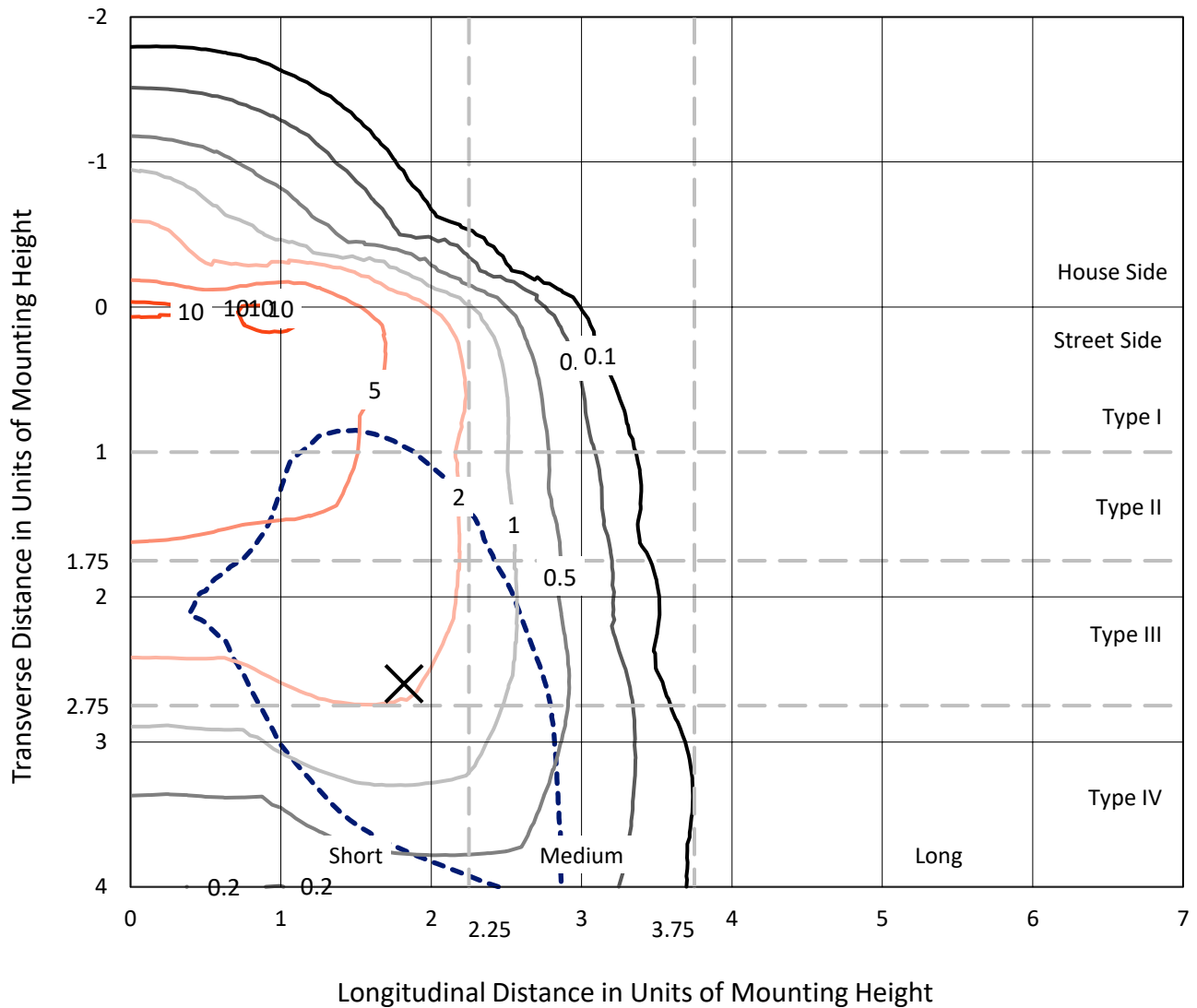
Lumens per Lamp: N/A  
Luminaire Lumens: 48509 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

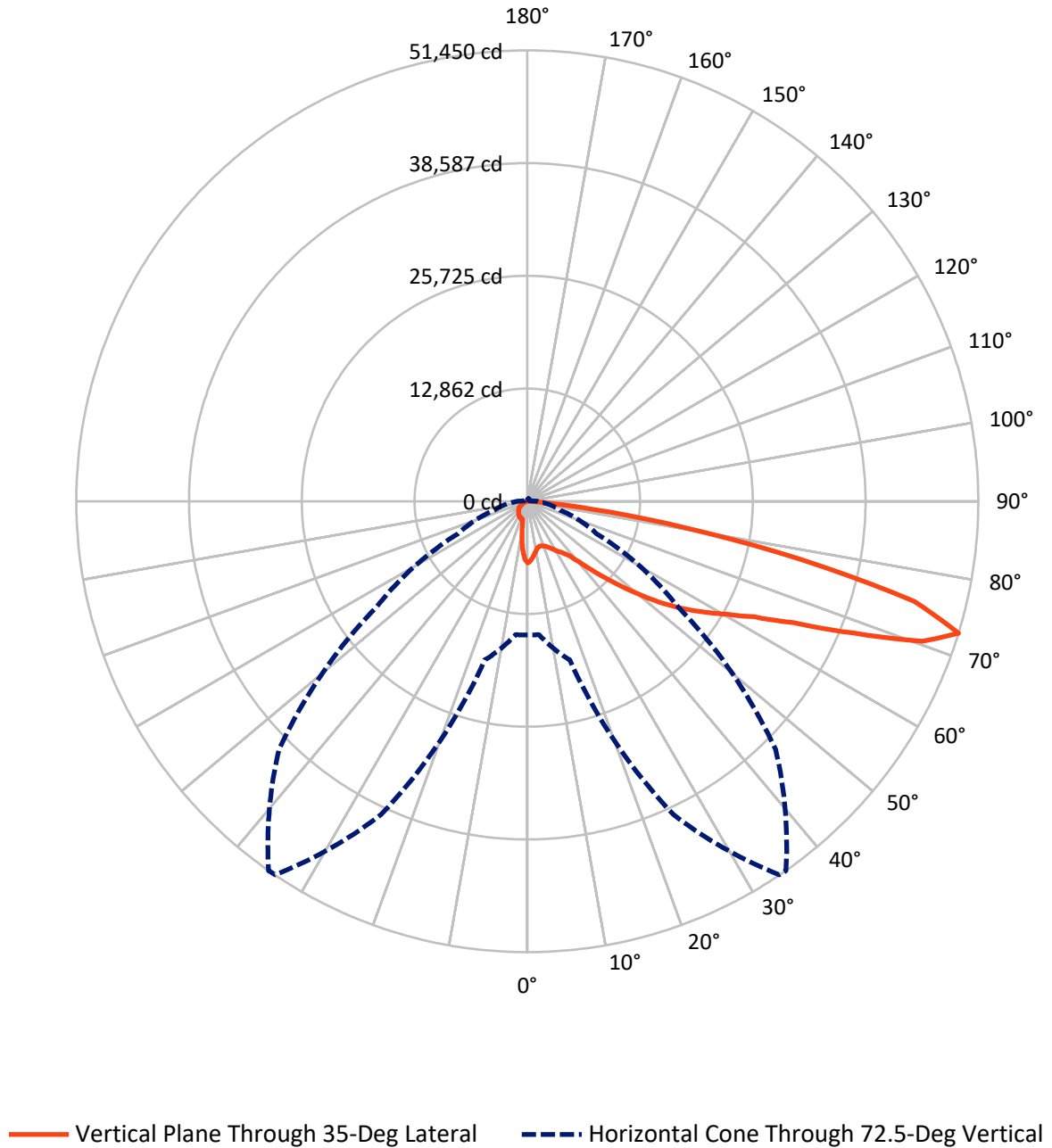
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5459.5	0.0	5459.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	43049.5	0.0	43049.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	48509.0	0.0	48509.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.7	1.2
10°-20°	1351.5	2.8
20°-30°	2195.5	4.5
30°-40°	3663.2	7.6
40°-50°	6930.9	14.3
50°-60°	11013.1	22.7
60°-70°	13624.0	28.1
70°-80°	8468.7	17.5
80°-90°	684.4	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°	48509.0	100.0
0°-180°	48509.0	100.0

**Coefficient of Utilization**



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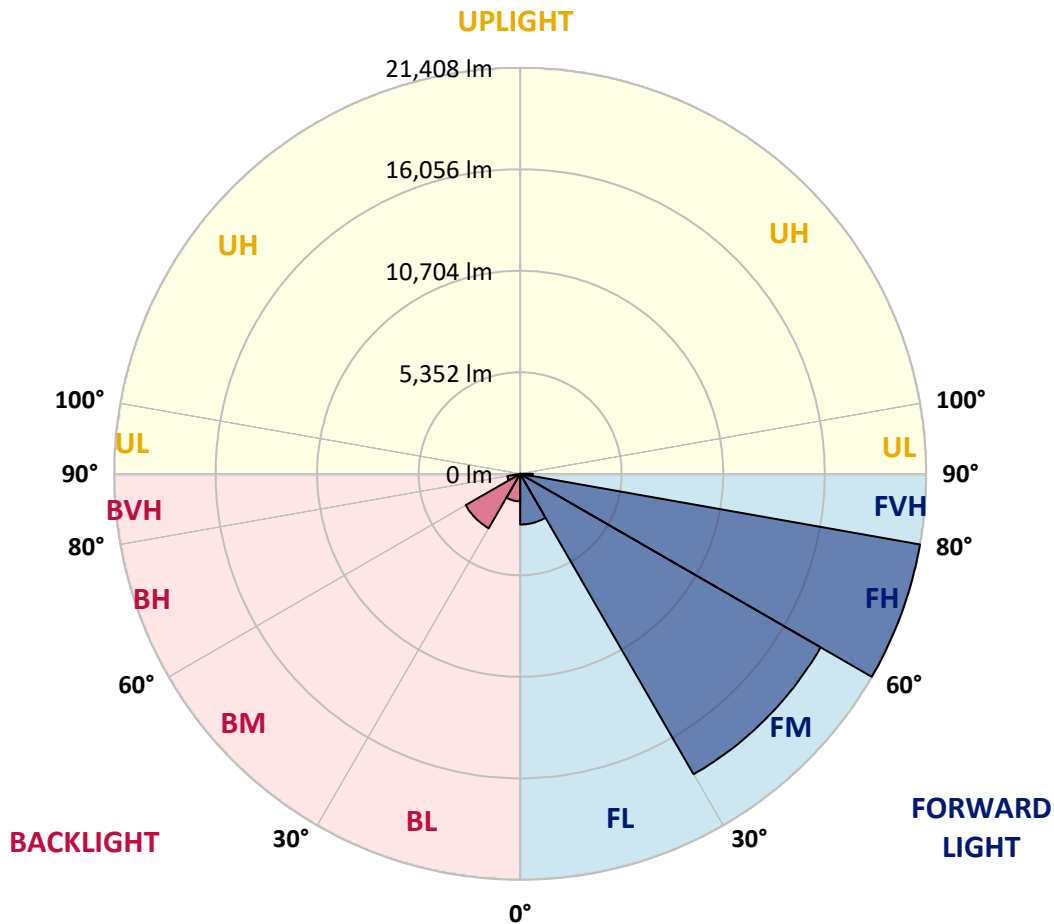
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2674.1	5.5			
FM (30°-60°)	18292.7	37.7			
FH (60°-80°)	21407.6	44.1			G5
FVH (80°-90°)	675.1	1.4			G4/750
BL (0°-30°)	1450.7	3.0	B3/2500		
BM (30°-60°)	3314.4	6.8	B3/5000		
BH (60°-80°)	685.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.3	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°	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6
2.5°	6717.8	6774.7	6785.3	6803.1	6803.1	6824.4	6860.0	6909.7	6991.5	7034.1
5°	6191.7	6234.4	6287.7	6330.4	6412.1	6422.8	6561.4	6696.5	6884.9	7027.0
7.5°	5662.1	5711.9	5783.0	5886.1	5992.7	6024.7	6234.4	6461.9	6760.4	7027.0
10°	5288.9	5292.5	5356.5	5459.5	5630.2	5669.2	5925.2	6248.6	6621.8	6984.4
12.5°	5079.2	5104.1	5132.5	5210.7	5374.2	5399.1	5672.8	6053.1	6483.2	6959.5
15°	5079.2	5097.0	5114.8	5153.9	5285.4	5306.7	5548.4	5928.7	6412.1	6970.2
17.5°	5132.5	5161.0	5146.8	5193.0	5331.6	5345.8	5559.1	5893.2	6408.6	7037.7
20°	5260.5	5281.8	5253.4	5281.8	5420.4	5448.9	5669.2	5960.7	6469.0	7155.0
22.5°	5463.1	5473.8	5406.2	5427.6	5569.7	5605.3	5861.2	6152.6	6614.7	7343.4
25°	5719.0	5740.3	5637.3	5662.1	5797.2	5839.9	6134.9	6440.6	6845.8	7602.8
27.5°	6014.0	6024.7	5935.8	5932.3	6106.4	6166.9	6465.4	6796.0	7155.0	7929.8
30°	6351.7	6383.7	6298.4	6284.2	6504.5	6554.3	6849.3	7233.2	7609.9	8420.3
32.5°	6618.3	6643.2	6593.4	6628.9	6852.9	6892.0	7314.9	7851.6	8324.4	9117.0
35°	7002.1	7016.4	6902.6	6966.6	7222.5	7322.0	7951.2	8718.9	9223.6	9991.4
37.5°	8391.9	8391.9	7908.5	7592.2	7837.4	7926.3	8822.0	9810.1	10332.6	11164.3
40°	10314.8	10282.8	9575.5	8928.6	8896.6	9070.8	10062.5	11185.7	11765.0	12571.9
42.5°	12365.7	12316.0	11352.7	10712.9	10606.3	10666.7	11494.9	12881.1	13471.1	14288.6
45°	14185.6	14171.3	13289.9	12429.7	12237.8	12429.7	13282.7	14864.5	15287.4	16147.6
47.5°	15710.4	15710.4	15067.1	14505.5	14405.9	14519.7	15703.3	17064.6	17025.5	18127.4
50°	17466.3	17452.0	16840.7	16599.0	16702.1	16862.0	18489.9	19382.1	18824.0	20071.6
52.5°	18696.1	18781.4	18571.7	18532.6	19058.6	19335.9	21319.2	21649.8	20434.2	21916.4
55°	19670.0	19769.5	20011.2	20284.9	21297.9	21660.4	24059.7	23800.2	21781.3	23515.8
57.5°	21049.1	20906.9	21280.1	21820.4	23459.0	23896.2	26714.8	25829.7	22865.4	24813.2
60°	22723.2	22744.5	22808.5	23491.0	25616.5	26178.1	29330.8	27749.1	23562.0	25609.4
62.5°	24735.0	24767.0	24898.5	25947.0	28513.3	29042.9	32117.5	29320.2	23881.9	25385.4
65°	24596.4	24731.4	26199.4	29785.8	32917.2	33439.7	35369.7	30422.0	23398.5	23338.1
67.5°	22406.9	22627.2	25083.3	34370.9	39556.8	40139.7	39300.9	30638.8	21312.1	18148.7
70°	19534.9	19613.1	22566.8	38494.0	47244.9	47835.0	42819.7	28253.8	16172.5	10122.9
72.5°	15255.4	15273.2	18738.7	39450.2	51417.8	51449.8	40058.0	20974.4	8697.6	3888.5
75°	10897.8	10791.1	12550.5	31993.1	45236.7	45599.3	30031.0	9838.5	3323.4	1837.6
77.5°	5843.4	5960.7	7101.7	18973.3	31250.2	31868.6	16385.7	2836.4	1691.9	1251.1
80°	1805.6	1905.2	2911.0	8686.9	17700.9	18074.1	6074.4	1261.8	1180.1	892.2
82.5°	568.7	590.0	1357.8	3650.4	7346.9	7517.5	1759.4	714.4	806.8	590.0
85°	163.5	167.1	604.2	1361.3	1816.3	1851.8	494.1	277.2	462.1	366.1
87.5°	17.8	56.9	227.5	227.5	159.9	156.4	53.3	60.4	131.5	46.2
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°
7030.6	0°	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6	7030.6
7062.6	2.5°	7044.8	7048.4	7002.1	6923.9	6838.6	6767.6	6678.7	6607.6	6557.8	6543.6
7126.5	5°	7094.6	7069.7	6938.2	6700.0	6415.7	6170.4	5896.7	5679.9	5537.7	5477.3
7194.1	7.5°	7169.2	7098.1	6810.2	6341.0	5797.2	5313.8	4823.3	4443.0	4201.3	4080.4
7258.1	10°	7233.2	7091.0	6596.9	5822.1	4990.4	4258.2	3597.0	3138.5	2882.6	2761.8
7332.7	12.5°	7293.6	7087.5	6319.7	5207.2	4080.4	3184.7	2569.8	2342.3	2271.3	2246.4
7453.6	15°	7407.3	7098.1	5971.4	4503.4	3174.1	2406.3	2182.4	2178.8	2193.1	2185.9
7638.4	17.5°	7563.7	7108.8	5576.8	3757.0	2449.0	2122.0	2111.3	2143.3	2164.6	2154.0
7869.4	20°	7766.3	7151.4	5157.4	3017.7	2104.2	2050.9	2075.8	2104.2	2122.0	2104.2
8178.6	22.5°	8050.7	7226.1	4698.9	2424.1	1994.0	2008.2	2029.6	2061.5	2079.3	2054.4
8573.2	25°	8399.0	7343.4	4247.5	2107.8	1940.7	1958.5	1990.5	2026.0	2047.3	2022.4
9070.8	27.5°	8850.4	7531.7	3831.6	2036.7	1887.4	1898.0	1944.3	1997.6	2026.0	1994.0
9778.1	30°	9504.4	7841.0	3472.6	2068.7	1855.4	1830.5	1894.5	1969.1	2001.1	1972.7
10741.4	32.5°	10371.7	8278.2	3252.3	2118.4	1841.2	1752.3	1812.7	1908.7	1962.0	1944.3
11999.6	35°	11509.1	8942.8	3167.0	2175.3	1830.5	1670.6	1713.2	1816.3	1908.7	1926.5
13584.9	37.5°	12888.2	9867.0	3191.8	2200.2	1798.5	1603.0	1624.4	1713.2	1834.1	1890.9
15369.2	40°	14455.7	10944.0	3334.0	2175.3	1763.0	1546.2	1549.7	1617.2	1723.9	1809.2
17288.5	42.5°	16072.9	12202.2	3597.0	2082.9	1731.0	1496.4	1485.7	1531.9	1603.0	1663.5
19204.4	45°	17612.0	13496.0	3856.5	1954.9	1691.9	1446.6	1421.8	1439.5	1453.7	1478.6
21070.4	47.5°	18955.6	14405.9	3781.9	1837.6	1638.6	1389.8	1347.1	1340.0	1297.4	1293.8
22737.4	50°	19883.2	14605.0	3358.9	1720.3	1560.4	1325.8	1258.3	1215.6	1141.0	1105.4
23985.0	52.5°	20178.3	13819.5	2744.0	1603.0	1432.4	1240.5	1144.5	1077.0	984.6	952.6
24703.0	55°	19787.3	12280.4	2193.1	1460.9	1254.7	1126.7	1020.1	931.2	856.6	817.5
24781.2	57.5°	18831.2	10321.9	1734.5	1293.8	1066.3	998.8	892.2	803.3	739.3	700.2
23913.9	60°	17245.9	8196.4	1372.0	1094.8	909.9	860.2	750.0	693.1	636.2	590.0
21674.7	62.5°	14839.6	5850.5	1077.0	867.3	760.6	703.8	639.8	597.1	529.6	465.6
17647.5	65°	11580.2	3579.3	831.7	636.2	611.4	582.9	543.8	504.7	423.0	359.0
11512.7	67.5°	7304.3	1695.4	593.6	479.8	483.4	469.2	451.4	419.4	359.0	302.1
5157.4	70°	3216.7	821.1	391.0	366.1	359.0	359.0	373.2	362.5	305.7	252.4
1791.4	72.5°	1094.8	440.7	291.5	277.2	259.5	255.9	312.8	302.1	245.3	195.5
892.2	75°	572.3	295.0	213.3	199.0	156.4	188.4	248.8	234.6	174.2	128.0
590.0	77.5°	373.2	209.7	145.7	128.0	88.9	124.4	184.8	163.5	103.1	64.0
387.4	80°	234.6	138.6	85.3	60.4	42.7	67.5	99.5	71.1	39.1	14.2
227.5	82.5°	124.4	71.1	32.0	21.3	17.8	21.3	24.9	17.8	7.1	0.0
117.3	85°	49.8	24.9	10.7	7.1	3.6	0.0	7.1	3.6	0.0	0.0
21.3	87.5°	17.8	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>
7030.6
6568.5
5498.6
4098.2
2765.3
2239.3
2182.4
2150.4
2100.6
2050.9
2018.9
1994.0
1969.1
1944.3
1926.5
1905.2
1837.6
1688.3
1492.8
1290.2
1109.0
949.0
817.5
693.1
579.4
455.0
348.3
295.0
241.7
184.8
117.3
56.9
10.7
0.0
0.0
0.0
0.0

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