

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: P944538

Luminaire Tested: **GALN-SB9C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944538  
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-SB9C-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

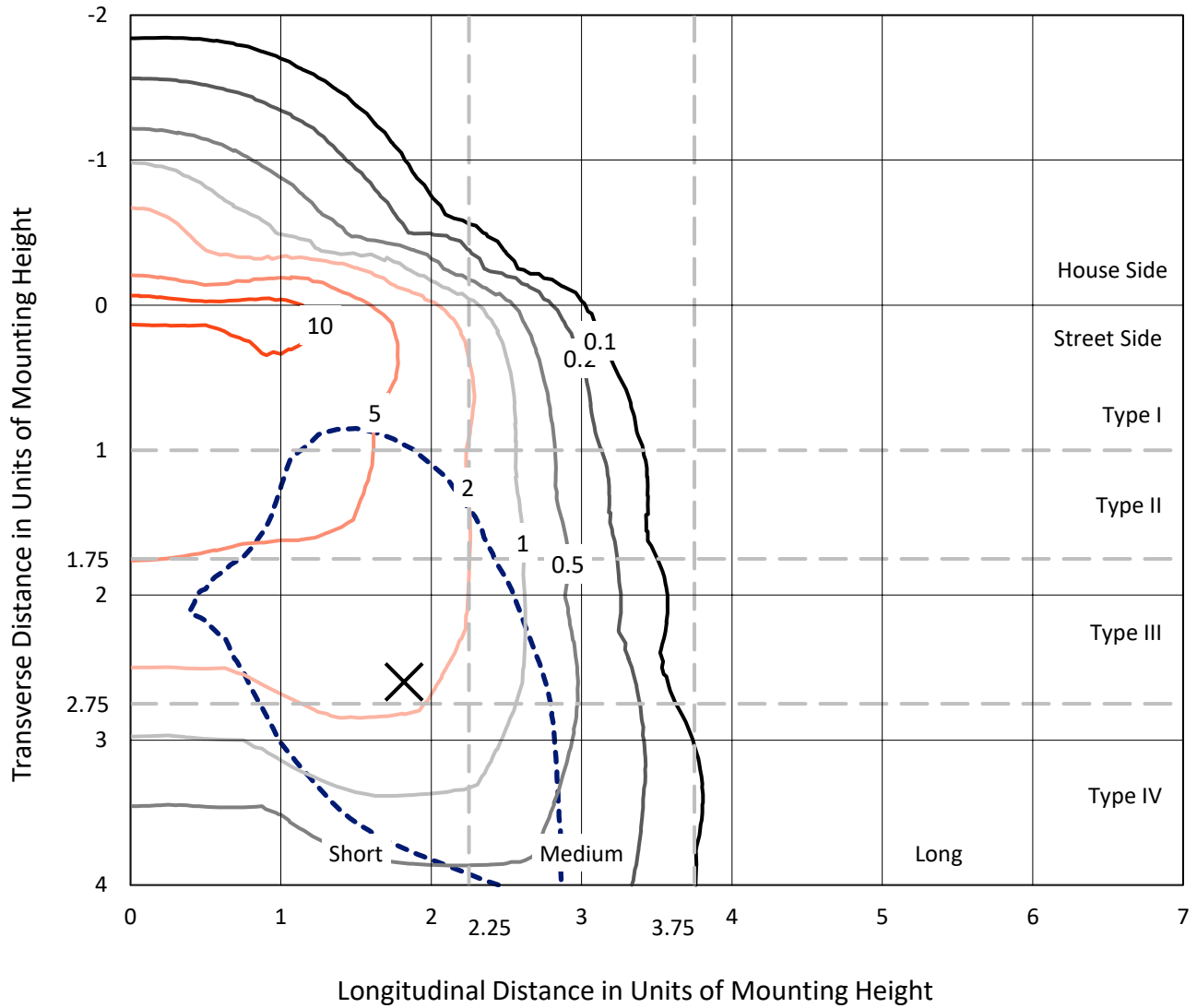
Lumens per Lamp: N/A  
Luminaire Lumens: 54642 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

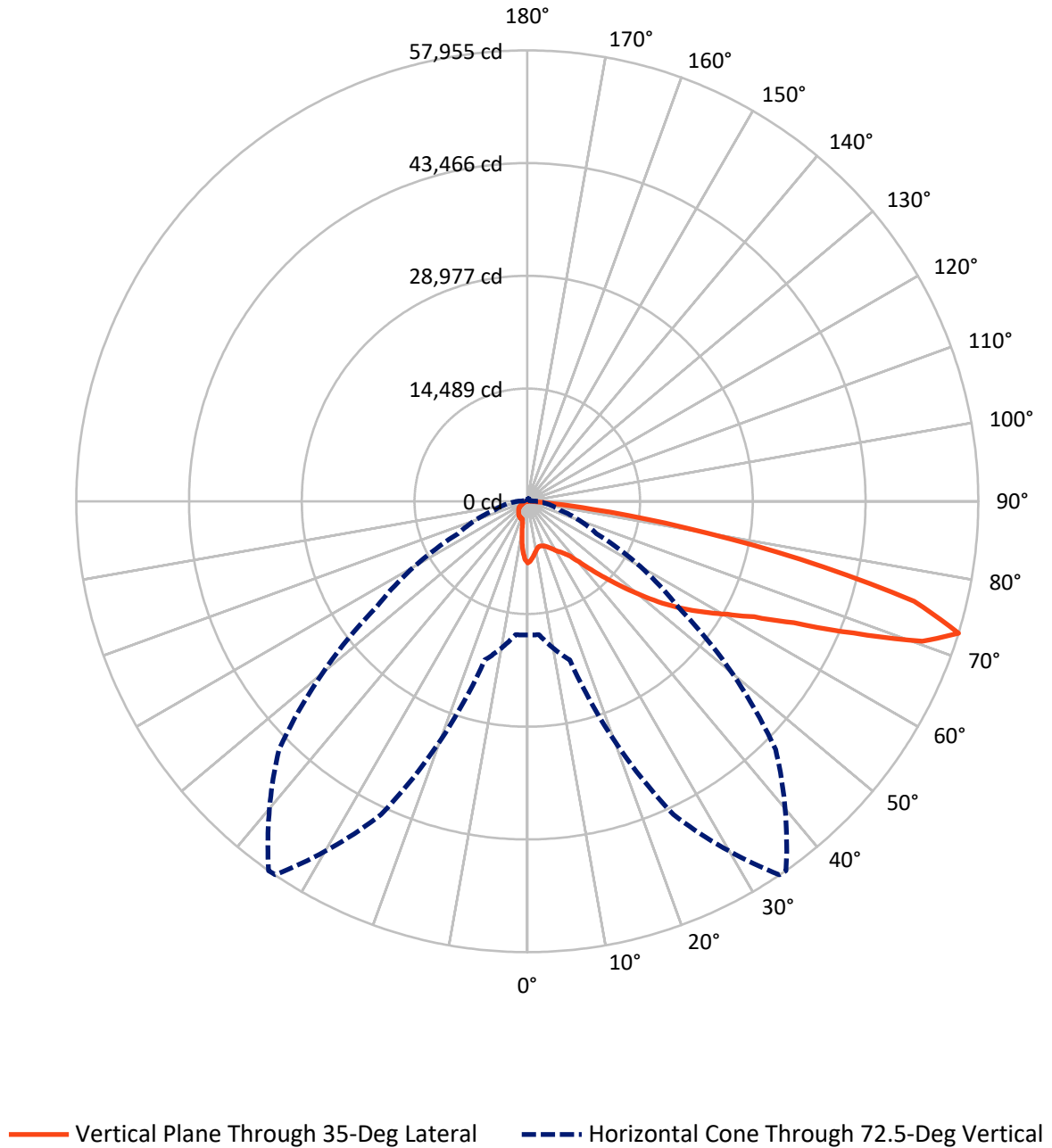
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	6149.7	0.0	6149.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	48492.3	0.0	48492.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	54642.0	0.0	54642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.8	1.2
10°-20°	1522.4	2.8
20°-30°	2473.1	4.5
30°-40°	4126.3	7.6
40°-50°	7807.1	14.3
50°-60°	12405.5	22.7
60°-70°	15346.4	28.1
70°-80°	9539.4	17.5
80°-90°	770.9	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°	54642.0	100.0
0°-180°	54642.0	100.0

**Coefficient of Utilization**



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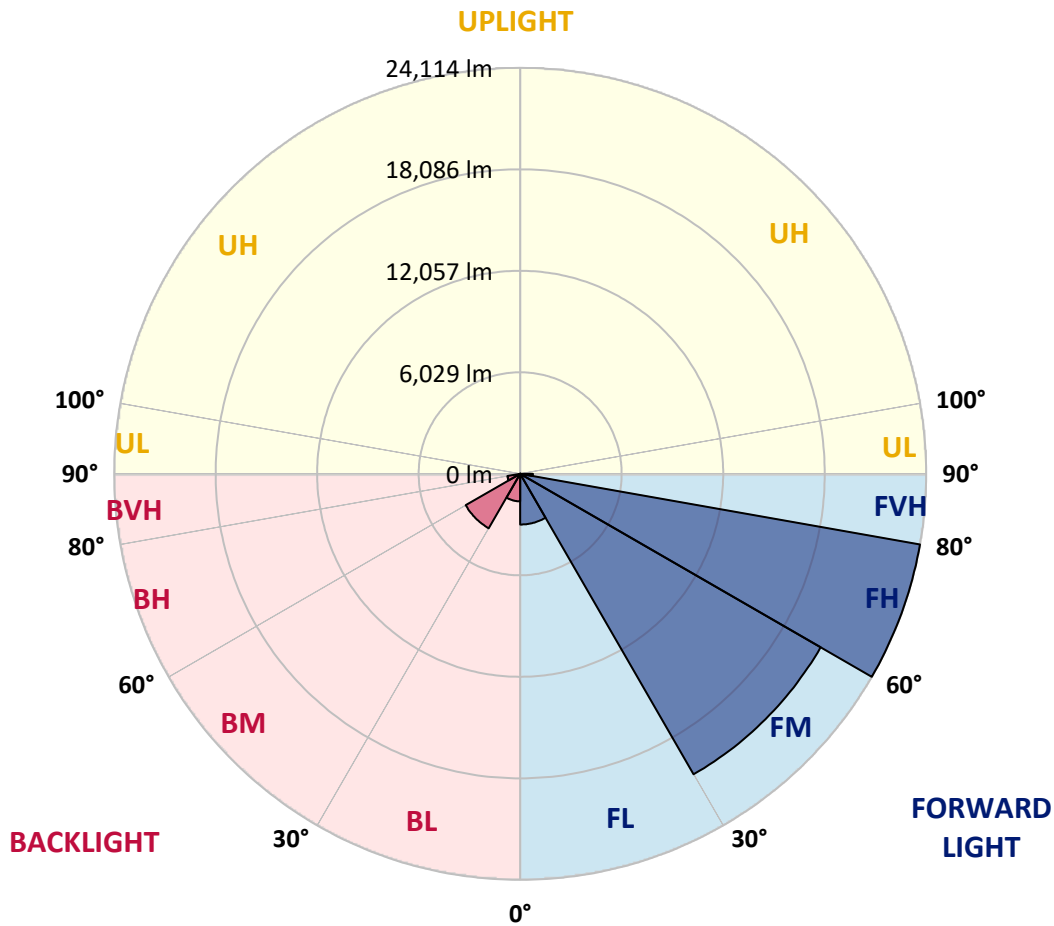
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3012.2	5.5			
FM (30°-60°)	20605.5	37.7			
FH (60°-80°)	24114.2	44.1			G5
FVH (80°-90°)	760.4	1.4			G5
BL (0°-30°)	1634.1	3.0	B3/2500		
BM (30°-60°)	3733.4	6.8	B3/5000		
BH (60°-80°)	771.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	10.5	0.0			G1/100
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°	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5
2.5°	7567.1	7631.2	7643.2	7663.2	7663.2	7687.2	7727.3	7783.3	7875.4	7923.5
5°	6974.6	7022.6	7082.7	7130.7	7222.8	7234.8	7391.0	7543.1	7755.3	7915.5
7.5°	6378.0	6434.1	6514.1	6630.2	6750.4	6786.4	7022.6	7278.9	7615.2	7915.5
10°	5957.6	5961.6	6033.7	6149.8	6342.0	6386.0	6674.3	7038.6	7459.0	7867.4
12.5°	5721.4	5749.4	5781.4	5869.5	6053.7	6081.7	6390.0	6818.4	7302.9	7839.4
15°	5721.4	5741.4	5761.4	5805.5	5953.6	5977.6	6249.9	6678.3	7222.8	7851.4
17.5°	5781.4	5813.5	5797.5	5849.5	6005.7	6021.7	6261.9	6638.3	7218.8	7927.5
20°	5925.6	5949.6	5917.6	5949.6	6105.7	6137.8	6386.0	6714.3	7286.9	8059.6
22.5°	6153.8	6165.8	6089.7	6113.8	6273.9	6313.9	6602.2	6930.5	7451.0	8271.8
25°	6442.1	6466.1	6350.0	6378.0	6530.1	6578.2	6910.5	7254.8	7711.3	8564.1
27.5°	6774.4	6786.4	6686.3	6682.3	6878.5	6946.5	7282.9	7655.2	8059.6	8932.4
30°	7154.7	7190.8	7094.7	7078.7	7326.9	7383.0	7715.3	8147.7	8572.1	9484.9
32.5°	7455.0	7483.0	7427.0	7467.0	7719.3	7763.3	8239.8	8844.3	9376.8	10269.7
35°	7887.4	7903.4	7775.3	7847.4	8135.7	8247.8	8956.4	9821.2	10389.8	11254.6
37.5°	9452.9	9452.9	8908.4	8552.1	8828.3	8928.4	9937.4	11050.4	11639.0	12575.8
40°	11618.9	11582.9	10786.2	10057.5	10021.4	10217.6	11334.7	12599.9	13252.5	14161.3
42.5°	13929.1	13873.1	12788.0	12067.4	11947.3	12015.3	12948.2	14509.7	15174.3	16095.2
45°	15979.0	15963.0	14970.1	14001.2	13785.0	14001.2	14962.1	16743.8	17220.2	18189.1
47.5°	17696.7	17696.7	16972.0	16339.4	16227.3	16355.4	17688.7	19222.1	19178.1	20419.2
50°	19674.5	19658.5	18969.9	18697.6	18813.7	18993.9	20827.6	21832.6	21204.0	22609.3
52.5°	21059.8	21155.9	20919.7	20875.7	21468.2	21780.5	24014.6	24387.0	23017.7	24687.2
55°	22156.9	22269.0	22541.2	22849.5	23990.6	24399.0	27101.5	26809.2	24535.1	26488.9
57.5°	23710.3	23550.2	23970.6	24579.1	26424.9	26917.3	30092.3	29095.4	25756.3	27950.3
60°	25596.1	25620.1	25692.2	26460.9	28855.2	29487.8	33039.1	31257.4	26541.0	28847.2
62.5°	27862.2	27898.3	28046.4	29227.5	32118.2	32714.8	36178.1	33027.1	26901.3	28594.9
65°	27706.1	27858.2	29511.8	33551.6	37078.9	37667.5	39841.5	34268.3	26356.8	26288.8
67.5°	25239.8	25488.0	28254.6	38716.5	44558.0	45214.6	44269.7	34512.5	24006.6	20443.3
70°	22004.7	22092.8	25419.9	43360.8	53218.1	53882.7	48233.4	31826.0	18217.2	11402.7
72.5°	17184.2	17204.2	21107.9	44437.8	57918.5	57954.6	45122.5	23626.2	9797.2	4380.1
75°	12275.6	12155.4	14137.3	36037.9	50956.0	51364.4	33827.9	11082.4	3743.5	2069.9
77.5°	6582.2	6714.3	7999.5	21372.1	35201.1	35897.8	18457.4	3195.0	1905.8	1409.3
80°	2033.9	2146.0	3279.1	9785.2	19938.8	20359.2	6842.4	1421.3	1329.3	1004.9
82.5°	640.6	664.6	1529.4	4111.9	8275.8	8468.0	1981.9	804.8	908.9	664.6
85°	184.2	188.2	680.6	1533.4	2045.9	2086.0	556.5	312.3	520.5	412.4
87.5°	20.0	64.1	256.2	256.2	180.2	176.2	60.1	68.1	148.1	52.0
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°
7919.5	0°	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5
7955.5	2.5°	7935.5	7939.5	7887.4	7799.3	7703.3	7623.2	7523.1	7443.0	7387.0	7370.9
8027.6	5°	7991.5	7963.5	7815.4	7547.1	7226.8	6950.5	6642.3	6398.0	6237.9	6169.8
8103.6	7.5°	8075.6	7995.5	7671.2	7142.7	6530.1	5985.6	5433.1	5004.7	4732.5	4596.3
8175.7	10°	8147.7	7987.5	7431.0	6558.2	5621.3	4796.5	4051.8	3535.3	3247.1	3110.9
8259.8	12.5°	8215.7	7983.5	7118.7	5865.5	4596.3	3587.4	2894.7	2638.5	2558.4	2530.4
8395.9	15°	8343.9	7995.5	6726.3	5072.8	3575.4	2710.6	2458.3	2454.3	2470.3	2462.3
8604.1	17.5°	8520.0	8007.5	6281.9	4232.0	2758.6	2390.3	2378.2	2414.3	2438.3	2426.3
8864.3	20°	8748.2	8055.6	5809.5	3399.2	2370.2	2310.2	2338.2	2370.2	2390.3	2370.2
9212.7	22.5°	9068.5	8139.7	5293.0	2730.6	2246.1	2262.1	2286.2	2322.2	2342.2	2314.2
9657.1	25°	9460.9	8271.8	4784.5	2374.2	2186.1	2206.1	2242.1	2282.1	2306.2	2278.1
10217.6	27.5°	9969.4	8484.0	4316.1	2294.2	2126.0	2138.0	2190.1	2250.1	2282.1	2246.1
11014.4	30°	10706.1	8832.3	3911.7	2330.2	2090.0	2061.9	2134.0	2218.1	2254.1	2222.1
12099.4	32.5°	11683.0	9324.8	3663.4	2386.2	2074.0	1973.9	2041.9	2150.0	2210.1	2190.1
13516.7	35°	12964.2	10073.5	3567.4	2450.3	2061.9	1881.8	1929.8	2045.9	2150.0	2170.0
15302.4	37.5°	14517.7	11114.5	3595.4	2478.3	2025.9	1805.7	1829.7	1929.8	2065.9	2130.0
17312.3	40°	16283.3	12327.6	3755.5	2450.3	1985.9	1741.6	1745.6	1821.7	1941.8	2037.9
19474.3	42.5°	18105.0	13744.9	4051.8	2346.2	1949.8	1685.6	1673.6	1725.6	1805.7	1873.8
21632.4	45°	19838.7	15202.3	4344.1	2202.1	1905.8	1629.5	1601.5	1621.5	1637.5	1665.6
23734.4	47.5°	21352.1	16227.3	4260.0	2069.9	1845.7	1565.5	1517.4	1509.4	1461.4	1457.4
25612.1	50°	22397.1	16451.5	3783.6	1937.8	1757.7	1493.4	1417.3	1369.3	1285.2	1245.2
27017.4	52.5°	22729.4	15566.7	3090.9	1805.7	1613.5	1397.3	1289.2	1213.1	1109.0	1073.0
27826.2	55°	22289.0	13833.0	2470.3	1645.5	1413.3	1269.2	1149.1	1049.0	964.9	920.9
27914.3	57.5°	21212.0	11626.9	1953.8	1457.4	1201.1	1125.1	1004.9	904.9	832.8	788.7
26937.4	60°	19426.3	9232.7	1545.5	1233.2	1025.0	968.9	844.8	780.7	716.7	664.6
24415.0	62.5°	16715.7	6590.2	1213.1	976.9	856.8	792.7	720.7	672.6	596.6	524.5
19878.7	65°	13044.3	4031.8	936.9	716.7	688.6	656.6	612.6	568.5	476.4	404.4
12968.2	67.5°	8227.7	1909.8	668.6	540.5	544.5	528.5	508.5	472.4	404.4	340.3
5809.5	70°	3623.4	924.9	440.4	412.4	404.4	404.4	420.4	408.4	344.3	284.3
2017.9	72.5°	1233.2	496.5	328.3	312.3	292.3	288.3	352.3	340.3	276.3	220.2
1004.9	75°	644.6	332.3	240.2	224.2	176.2	212.2	280.3	264.2	196.2	144.1
664.6	77.5°	420.4	236.2	164.2	144.1	100.1	140.1	208.2	184.2	116.1	72.1
436.4	80°	264.2	156.1	96.1	68.1	48.0	76.1	112.1	80.1	44.0	16.0
256.2	82.5°	140.1	80.1	36.0	24.0	20.0	24.0	28.0	20.0	8.0	0.0
132.1	85°	56.1	28.0	12.0	8.0	4.0	0.0	8.0	4.0	0.0	0.0
24.0	87.5°	20.0	4.0	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>
7919.5
7399.0
6193.8
4616.3
3114.9
2522.4
2458.3
2422.3
2366.2
2310.2
2274.1
2246.1
2218.1
2190.1
2170.0
2146.0
2069.9
1901.8
1681.6
1453.4
1249.2
1069.0
920.9
780.7
652.6
512.5
392.4
332.3
272.3
208.2
132.1
64.1
12.0
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