

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: P944528

Luminaire Tested: **GALN-SB9C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944528
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 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: 51648 lumens
Efficiency: N/A
Efficacy: 114.8 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

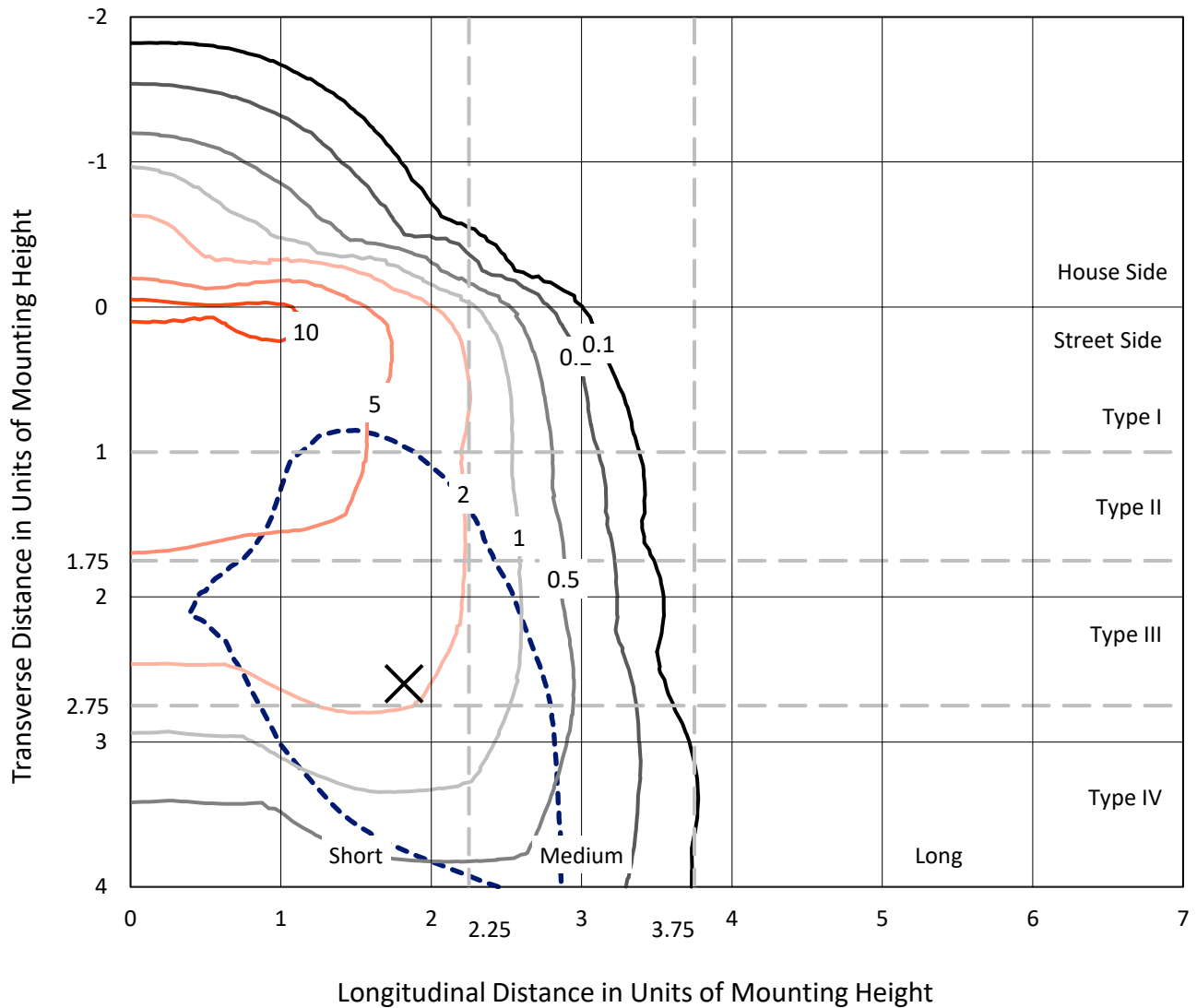
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

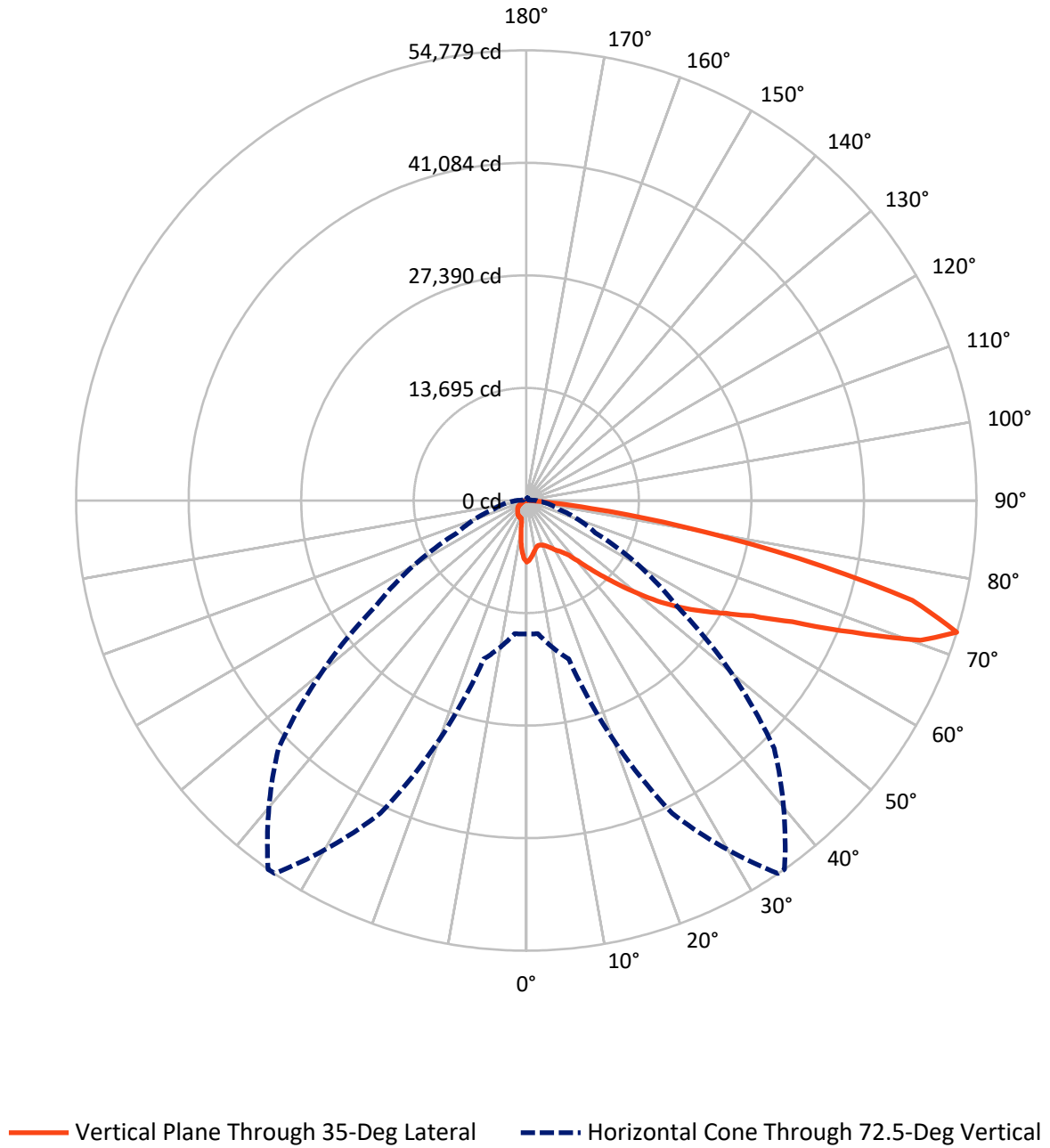
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	5812.8	0.0	5812.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	45835.3	0.0	45835.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	51648.0	0.0	51648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.1	1.2
10°-20°	1439.0	2.8
20°-30°	2337.6	4.5
30°-40°	3900.2	7.6
40°-50°	7379.4	14.3
50°-60°	11725.7	22.7
60°-70°	14505.6	28.1
70°-80°	9016.7	17.5
80°-90°	728.7	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°	51648.0	100.0
0°-180°	51648.0	100.0

Coefficient of Utilization



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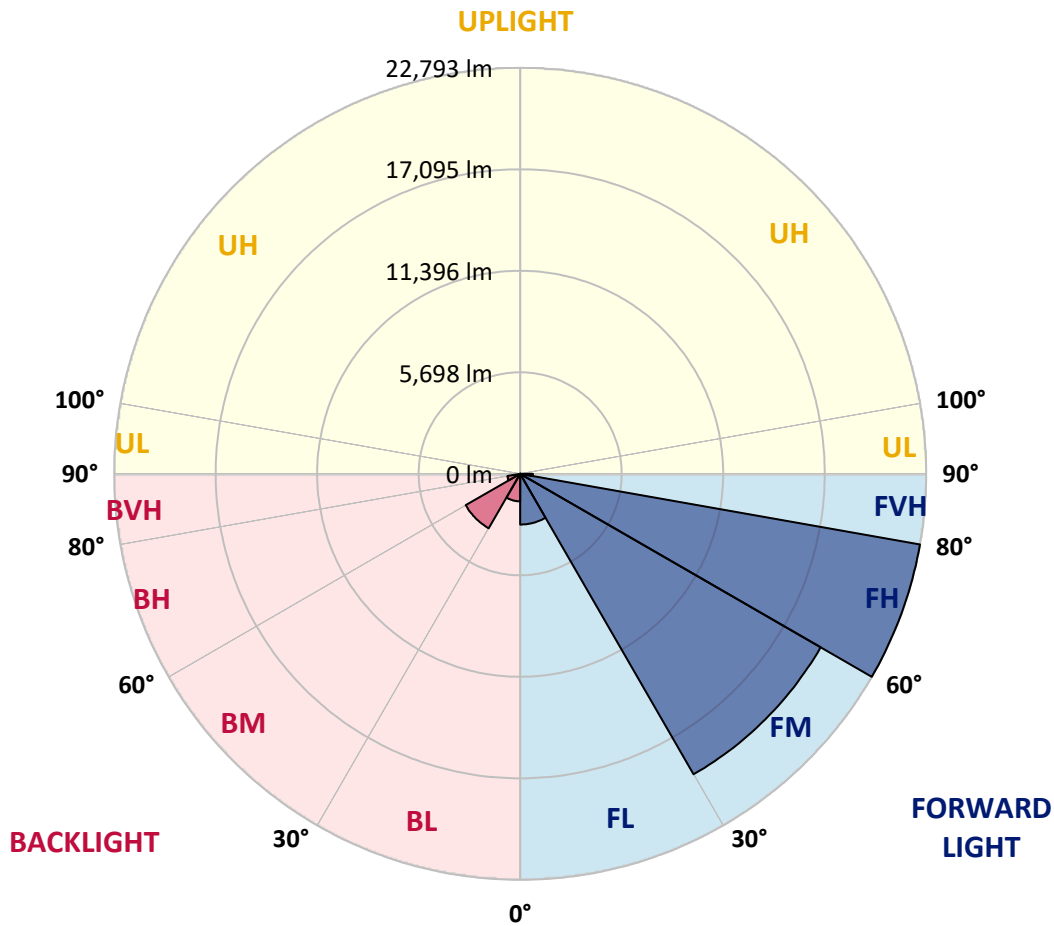
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.1	5.5			
FM (30°-60°)	19476.5	37.7			
FH (60°-80°)	22792.9	44.1			G5
FVH (80°-90°)	718.8	1.4			G4/750
BL (0°-30°)	1544.6	3.0	B3/2500		
BM (30°-60°)	3528.9	6.8	B3/5000		
BH (60°-80°)	729.4	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.9	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°	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5
2.5°	7152.5	7213.1	7224.4	7243.3	7243.3	7266.0	7303.9	7356.9	7443.9	7489.3
5°	6592.4	6637.8	6694.6	6740.0	6827.0	6838.4	6986.0	7129.8	7330.4	7481.7
7.5°	6028.5	6081.5	6157.2	6267.0	6380.5	6414.5	6637.8	6880.0	7197.9	7481.7
10°	5631.2	5635.0	5703.1	5812.8	5994.5	6036.1	6308.6	6653.0	7050.3	7436.3
12.5°	5407.9	5434.4	5464.7	5547.9	5722.0	5748.5	6039.9	6444.8	6902.7	7409.8
15°	5407.9	5426.8	5445.7	5487.4	5627.4	5650.1	5907.4	6312.4	6827.0	7421.2
17.5°	5464.7	5494.9	5479.8	5529.0	5676.6	5691.7	5918.8	6274.5	6823.3	7493.1
20°	5600.9	5623.6	5593.3	5623.6	5771.2	5801.5	6036.1	6346.4	6887.6	7618.0
22.5°	5816.6	5828.0	5756.1	5778.8	5930.1	5968.0	6240.5	6550.8	7042.8	7818.6
25°	6089.1	6111.8	6002.0	6028.5	6172.3	6217.8	6531.9	6857.3	7288.7	8094.8
27.5°	6403.2	6414.5	6319.9	6316.1	6501.6	6565.9	6883.8	7235.8	7618.0	8443.0
30°	6762.7	6796.8	6705.9	6690.8	6925.4	6978.4	7292.5	7701.2	8102.4	8965.2
32.5°	7046.5	7073.0	7020.0	7057.9	7296.3	7337.9	7788.3	8359.7	8863.0	9707.0
35°	7455.3	7470.4	7349.3	7417.4	7689.9	7795.8	8465.7	9283.1	9820.5	10637.9
37.5°	8934.9	8934.9	8420.3	8083.5	8344.6	8439.2	9392.9	10444.9	11001.2	11886.8
40°	10982.3	10948.2	10195.2	9506.4	9472.3	9657.8	10713.6	11909.5	12526.3	13385.4
42.5°	13165.9	13112.9	12087.3	11406.2	11292.6	11357.0	12238.7	13714.6	14342.8	15213.3
45°	15103.5	15088.4	14149.8	13234.0	13029.7	13234.0	14142.3	15826.3	16276.7	17192.5
47.5°	16727.0	16727.0	16042.0	15444.1	15338.1	15459.2	16719.4	18168.9	18127.2	19300.4
50°	18596.5	18581.4	17930.4	17673.1	17782.9	17953.2	19686.4	20636.3	20042.1	21370.5
52.5°	19905.9	19996.7	19773.4	19731.8	20291.9	20587.1	22698.8	23050.7	21756.5	23334.6
55°	20942.8	21048.8	21306.1	21597.5	22676.1	23062.1	25616.5	25340.3	23190.8	25037.5
57.5°	22411.2	22259.8	22657.2	23232.4	24977.0	25442.5	28443.5	27501.2	24345.0	26418.8
60°	24193.6	24216.3	24284.4	25011.0	27274.1	27872.0	31228.8	29544.7	25086.7	27266.5
62.5°	26335.6	26369.6	26509.7	27626.1	30358.4	30922.3	34195.8	31217.4	25427.3	27028.1
65°	26188.0	26331.8	27894.8	31713.2	35047.3	35603.6	37658.5	32390.6	24912.7	24848.3
67.5°	23856.8	24091.4	26706.5	36595.1	42116.5	42737.1	41844.0	32621.5	22691.2	19323.1
70°	20799.0	20882.3	24027.1	40985.0	50302.1	50930.3	45590.6	30082.1	17219.0	10777.9
72.5°	16242.6	16261.5	19951.3	42003.0	54745.0	54779.1	42650.1	22331.7	9260.4	4140.1
75°	11602.9	11489.4	13362.7	34063.3	48164.0	48550.0	31974.3	10475.2	3538.4	1956.5
77.5°	6221.5	6346.4	7561.2	20201.1	33272.4	33930.9	17446.0	3019.9	1801.4	1332.1
80°	1922.5	2028.4	3099.4	9249.1	18846.3	19243.6	6467.5	1343.5	1256.4	949.9
82.5°	605.5	628.2	1445.6	3886.6	7822.3	8004.0	1873.3	760.7	859.1	628.2
85°	174.1	177.9	643.3	1449.4	1933.8	1971.7	526.0	295.2	492.0	389.8
87.5°	18.9	60.6	242.2	242.2	170.3	166.5	56.8	64.3	140.0	49.2
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°
7485.5	0°	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5
7519.6	2.5°	7500.7	7504.4	7455.3	7372.0	7281.2	7205.5	7110.9	7035.2	6982.2	6967.1
7587.7	5°	7553.6	7527.2	7387.1	7133.6	6830.8	6569.7	6278.3	6047.5	5896.1	5831.7
7659.6	7.5°	7633.1	7557.4	7250.9	6751.4	6172.3	5657.7	5135.4	4730.5	4473.2	4344.5
7727.7	10°	7701.2	7549.9	7023.8	6198.8	5313.3	4533.7	3829.8	3341.6	3069.1	2940.5
7807.2	12.5°	7765.6	7546.1	6728.6	5544.1	4344.5	3390.8	2736.1	2493.9	2418.2	2391.7
7935.9	15°	7886.7	7557.4	6357.8	4794.8	3379.5	2562.0	2323.6	2319.8	2335.0	2327.4
8132.7	17.5°	8053.2	7568.8	5937.7	4000.1	2607.4	2259.3	2247.9	2282.0	2304.7	2293.3
8378.6	20°	8268.9	7614.2	5491.2	3212.9	2240.4	2183.6	2210.1	2240.4	2259.3	2240.4
8707.9	22.5°	8571.6	7693.7	5003.0	2581.0	2123.0	2138.2	2160.9	2194.9	2213.9	2187.4
9128.0	25°	8942.5	7818.6	4522.3	2244.1	2066.3	2085.2	2119.3	2157.1	2179.8	2153.3
9657.8	27.5°	9423.1	8019.1	4079.6	2168.5	2009.5	2020.9	2070.1	2126.8	2157.1	2123.0
10410.9	30°	10119.5	8348.4	3697.4	2202.5	1975.5	1949.0	2017.1	2096.6	2130.6	2100.3
11436.4	32.5°	11042.9	8813.8	3462.7	2255.5	1960.3	1865.7	1930.0	2032.2	2089.0	2070.1
12776.1	35°	12253.9	9521.5	3371.9	2316.0	1949.0	1778.7	1824.1	1933.8	2032.2	2051.1
14463.9	37.5°	13722.2	10505.5	3398.4	2342.5	1914.9	1706.8	1729.5	1824.1	1952.7	2013.3
16363.7	40°	15391.1	11652.1	3549.8	2316.0	1877.1	1646.2	1650.0	1721.9	1835.4	1926.3
18407.3	42.5°	17113.0	12991.8	3829.8	2217.7	1843.0	1593.2	1581.9	1631.1	1706.8	1771.1
20447.1	45°	18751.7	14369.3	4106.1	2081.4	1801.4	1540.2	1513.8	1532.7	1547.8	1574.3
22433.9	47.5°	20182.2	15338.1	4026.6	1956.5	1744.6	1479.7	1434.3	1426.7	1381.3	1377.5
24208.8	50°	21169.9	15550.1	3576.3	1831.6	1661.3	1411.6	1339.7	1294.3	1214.8	1176.9
25537.1	52.5°	21484.0	14713.7	2921.6	1706.8	1525.1	1320.8	1218.6	1146.7	1048.3	1014.2
26301.5	55°	21067.7	13075.1	2335.0	1555.4	1335.9	1199.7	1086.1	991.5	912.0	870.4
26384.8	57.5°	20049.7	10989.9	1846.8	1377.5	1135.3	1063.4	949.9	855.3	787.2	745.5
25461.4	60°	18361.9	8726.8	1460.8	1165.6	968.8	915.8	798.5	738.0	677.4	628.2
23077.2	62.5°	15799.8	6229.1	1146.7	923.4	809.9	749.3	681.2	635.8	563.9	495.8
18789.5	65°	12329.5	3810.9	885.5	677.4	650.9	620.6	579.0	537.4	450.3	382.2
12257.6	67.5°	7776.9	1805.2	632.0	510.9	514.7	499.5	480.6	446.6	382.2	321.7
5491.2	70°	3424.9	874.2	416.3	389.8	382.2	382.2	397.4	386.0	325.5	268.7
1907.3	72.5°	1165.6	469.3	310.3	295.2	276.3	272.5	333.0	321.7	261.1	208.1
949.9	75°	609.3	314.1	227.1	211.9	166.5	200.6	264.9	249.8	185.4	136.2
628.2	77.5°	397.4	223.3	155.2	136.2	94.6	132.5	196.8	174.1	109.7	68.1
412.5	80°	249.8	147.6	90.8	64.3	45.4	71.9	106.0	75.7	41.6	15.1
242.2	82.5°	132.5	75.7	34.1	22.7	18.9	22.7	26.5	18.9	7.6	0.0
124.9	85°	53.0	26.5	11.4	7.6	3.8	0.0	7.6	3.8	0.0	0.0
22.7	87.5°	18.9	3.8	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>
7485.5
6993.6
5854.5
4363.4
2944.3
2384.2
2323.6
2289.6
2236.6
2183.6
2149.5
2123.0
2096.6
2070.1
2051.1
2028.4
1956.5
1797.6
1589.4
1373.7
1180.7
1010.4
870.4
738.0
616.9
484.4
370.9
314.1
257.3
196.8
124.9
60.6
11.4
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