

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: P943338

Luminaire Tested: **GALN-SB7D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943338
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 54794 lumens
Efficiency: N/A
Efficacy: 106.9 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

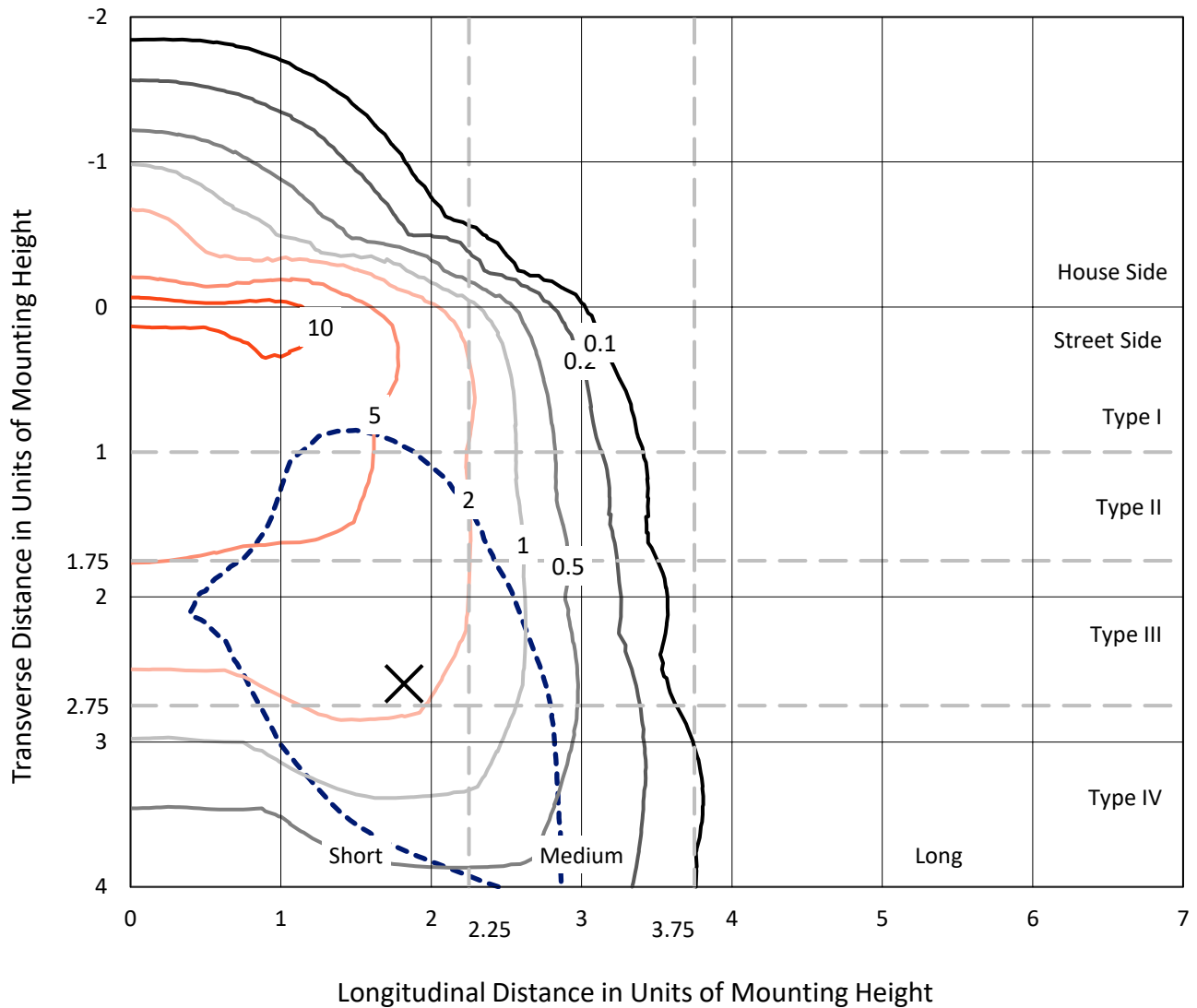
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

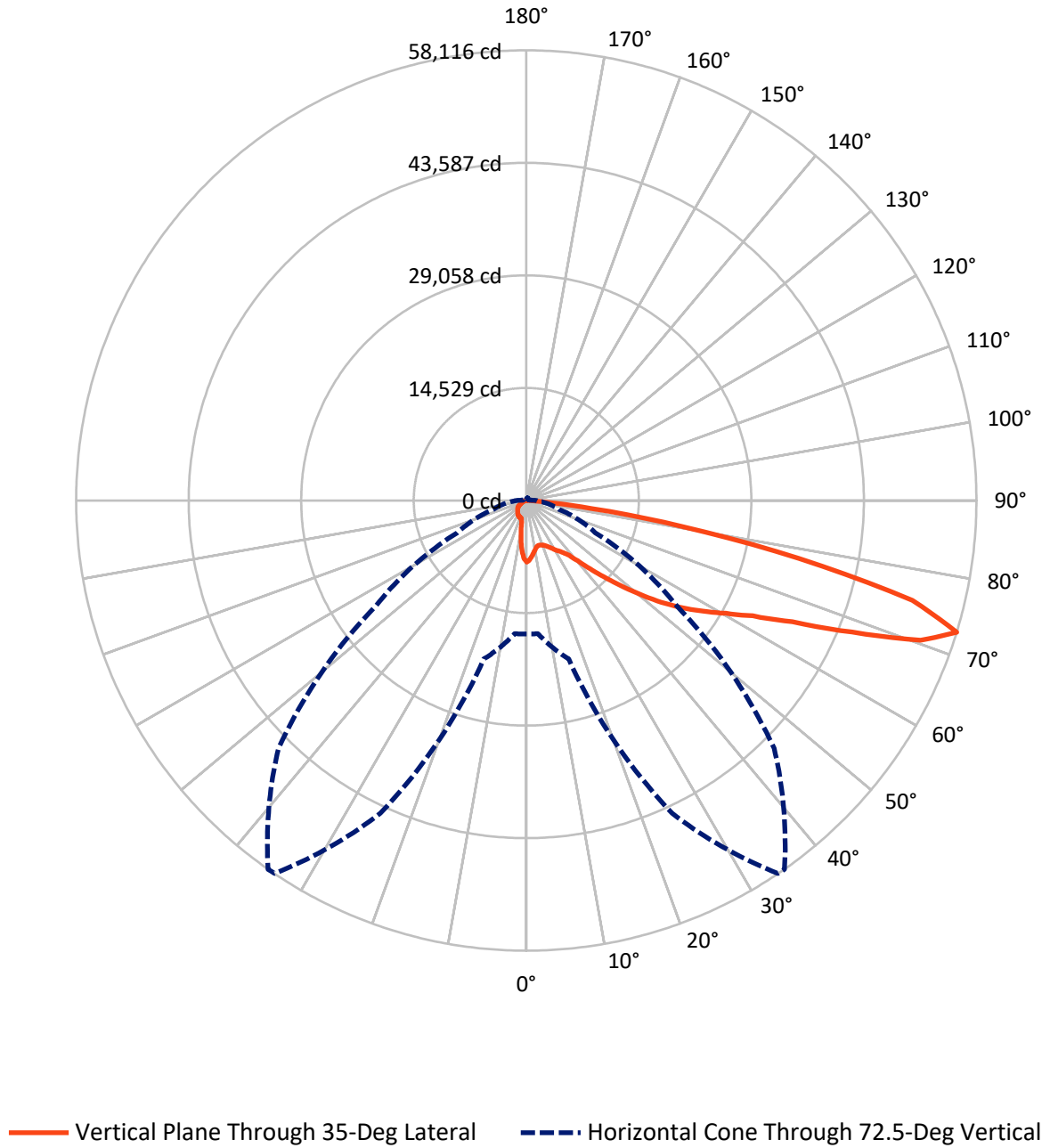
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	6166.8	0.0	6166.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	48627.2	0.0	48627.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	54794.0	0.0	54794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.6	1.2
10°-20°	1526.6	2.8
20°-30°	2480.0	4.5
30°-40°	4137.8	7.6
40°-50°	7828.8	14.3
50°-60°	12440.0	22.7
60°-70°	15389.1	28.1
70°-80°	9566.0	17.5
80°-90°	773.1	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°	54794.0	100.0
0°-180°	54794.0	100.0

Coefficient of Utilization



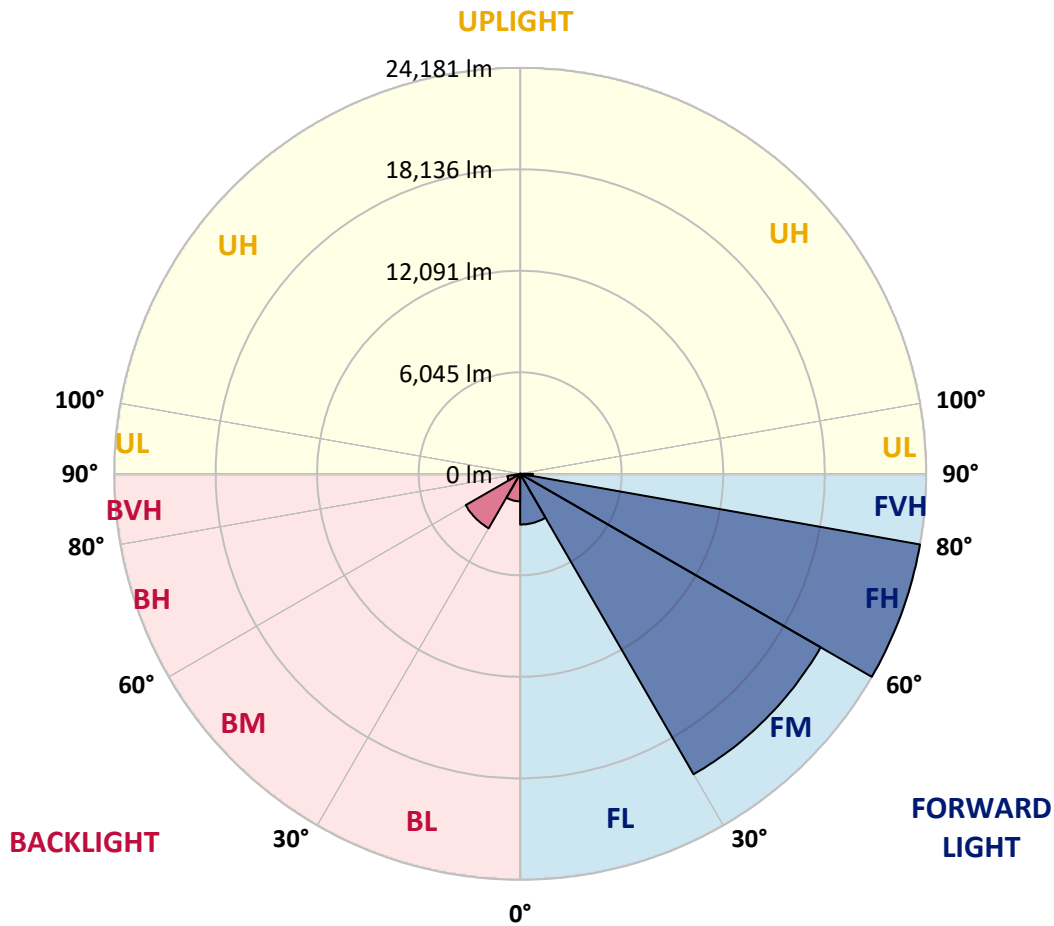
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3020.5	5.5			
FM (30°-60°)	20662.8	37.7			
FH (60°-80°)	24181.3	44.1			G5
FVH (80°-90°)	762.6	1.4			G5
BL (0°-30°)	1638.6	3.0	B3/2500		
BM (30°-60°)	3743.8	6.8	B3/5000		
BH (60°-80°)	773.8	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°	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5
2.5°	7588.2	7652.4	7664.5	7684.5	7684.5	7708.6	7748.8	7805.0	7897.3	7945.5
5°	6994.0	7042.1	7102.4	7150.6	7242.9	7254.9	7411.5	7564.1	7776.9	7937.5
7.5°	6395.7	6452.0	6532.3	6648.7	6769.1	6805.3	7042.1	7299.1	7636.4	7937.5
10°	5974.2	5978.2	6050.5	6166.9	6359.6	6403.8	6692.9	7058.2	7479.8	7889.3
12.5°	5737.3	5765.4	5797.5	5885.9	6070.5	6098.6	6407.8	6837.4	7323.2	7861.2
15°	5737.3	5757.4	5777.5	5821.6	5970.2	5994.3	6267.3	6696.9	7242.9	7873.2
17.5°	5797.5	5829.6	5813.6	5865.8	6022.4	6038.4	6279.3	6656.7	7238.9	7949.5
20°	5942.1	5966.2	5934.0	5966.2	6122.7	6154.9	6403.8	6733.0	7307.1	8082.0
22.5°	6170.9	6183.0	6106.7	6130.8	6291.4	6331.5	6620.6	6949.8	7471.7	8294.8
25°	6460.0	6484.1	6367.6	6395.7	6548.3	6596.5	6929.7	7275.0	7732.7	8587.9
27.5°	6793.2	6805.3	6704.9	6700.9	6897.6	6965.9	7303.1	7676.5	8082.0	8957.3
30°	7174.6	7210.8	7114.4	7098.4	7347.3	7403.5	7736.7	8170.3	8595.9	9511.3
32.5°	7475.8	7503.9	7447.7	7487.8	7740.7	7784.9	8262.7	8868.9	9402.9	10298.2
35°	7909.4	7925.4	7797.0	7869.2	8158.3	8270.7	8981.3	9848.6	10418.7	11285.9
37.5°	9479.2	9479.2	8933.2	8575.8	8852.9	8953.2	9965.0	11081.1	11671.3	12610.8
40°	11651.3	11615.1	10816.2	10085.4	10049.3	10246.0	11366.2	12634.9	13289.3	14200.7
42.5°	13967.9	13911.7	12823.6	12100.9	11980.5	12048.7	12984.2	14550.0	15216.5	16139.9
45°	16023.5	16007.4	15011.7	14040.1	13823.3	14040.1	15003.7	16790.3	17268.1	18239.7
47.5°	17745.9	17745.9	17019.2	16384.8	16272.4	16400.9	17737.9	19275.6	19231.4	20476.0
50°	19729.3	19713.2	19022.6	18749.6	18866.1	19046.7	20885.6	21893.3	21263.0	22672.2
52.5°	21118.4	21214.8	20977.9	20933.7	21527.9	21841.1	24081.4	24454.8	23081.7	24755.9
55°	22218.5	22330.9	22603.9	22913.1	24057.3	24466.8	27176.9	26883.8	24603.4	26562.6
57.5°	23776.3	23615.7	24037.3	24647.5	26498.4	26992.2	30176.0	29176.3	25827.9	28028.1
60°	25667.3	25691.4	25763.7	26534.5	28935.4	29569.8	33131.0	31344.4	26614.8	28927.4
62.5°	27939.7	27975.9	28124.4	29308.8	32207.6	32805.8	36278.7	33119.0	26976.2	28674.5
65°	27783.2	27935.7	29593.9	33644.9	37182.1	37772.3	39952.3	34363.6	26430.1	26361.9
67.5°	25310.0	25558.9	28333.2	38824.2	44681.9	45340.4	44392.8	34608.5	24073.4	20500.1
70°	22065.9	22154.3	25490.6	43481.5	53366.2	54032.6	48367.6	31914.5	18267.8	11434.5
72.5°	17232.0	17252.1	21166.6	44561.5	58079.7	58115.8	45248.0	23692.0	9824.5	4392.3
75°	12309.7	12189.3	14176.6	36138.2	51097.7	51507.3	33922.0	11113.3	3753.9	2075.7
77.5°	6600.5	6733.0	8021.8	21431.6	35299.1	35997.7	18508.7	3203.9	1911.1	1413.2
80°	2039.6	2152.0	3288.2	9812.4	19994.2	20415.8	6861.5	1425.3	1332.9	1007.7
82.5°	642.4	666.5	1533.7	4123.3	8298.8	8491.5	1987.4	807.0	911.4	666.5
85°	184.7	188.7	682.5	1537.7	2051.6	2091.8	558.1	313.2	521.9	413.5
87.5°	20.1	64.2	257.0	257.0	180.7	176.7	60.2	68.3	148.6	52.2
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°
7941.5	0°	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5
7977.6	2.5°	7957.5	7961.6	7909.4	7821.0	7724.7	7644.4	7544.0	7463.7	7407.5	7391.4
8049.9	5°	8013.8	7985.7	7837.1	7568.1	7246.9	6969.9	6660.7	6415.8	6255.2	6187.0
8126.2	7.5°	8098.1	8017.8	7692.6	7162.6	6548.3	6002.3	5448.2	5018.6	4745.6	4609.1
8198.4	10°	8170.3	8009.7	7451.7	6576.4	5636.9	4809.9	4063.1	3545.2	3256.1	3119.6
8282.8	12.5°	8238.6	8005.7	7138.5	5881.8	4609.1	3597.4	2902.8	2645.8	2565.5	2537.4
8419.3	15°	8367.1	8017.8	6745.0	5086.9	3585.3	2718.1	2465.2	2461.1	2477.2	2469.2
8628.0	17.5°	8543.7	8029.8	6299.4	4243.8	2766.3	2396.9	2384.9	2421.0	2445.1	2433.0
8889.0	20°	8772.6	8078.0	5825.6	3408.7	2376.8	2316.6	2344.7	2376.8	2396.9	2376.8
9238.3	22.5°	9093.8	8162.3	5307.7	2738.2	2252.4	2268.4	2292.5	2328.6	2348.7	2320.6
9684.0	25°	9487.2	8294.8	4797.8	2380.8	2192.1	2212.2	2248.3	2288.5	2312.6	2284.5
10246.0	27.5°	9997.1	8507.6	4328.1	2300.5	2131.9	2144.0	2196.2	2256.4	2288.5	2252.4
11045.0	30°	10735.9	8856.9	3922.6	2336.7	2095.8	2067.7	2139.9	2224.3	2260.4	2228.3
12133.1	32.5°	11715.5	9350.7	3673.6	2392.9	2079.7	1979.3	2047.6	2156.0	2216.2	2196.2
13554.3	35°	13000.3	10101.5	3577.3	2457.1	2067.7	1887.0	1935.2	2051.6	2156.0	2176.1
15345.0	37.5°	14558.1	11145.4	3605.4	2485.2	2031.5	1810.7	1834.8	1935.2	2071.7	2135.9
17360.5	40°	16328.6	12361.9	3766.0	2457.1	1991.4	1746.5	1750.5	1826.8	1947.2	2043.6
19528.5	42.5°	18155.4	13783.2	4063.1	2352.7	1955.3	1690.3	1678.2	1730.4	1810.7	1879.0
21692.5	45°	19893.9	15244.6	4356.2	2208.2	1911.1	1634.1	1606.0	1626.0	1642.1	1670.2
23800.4	47.5°	21411.5	16272.4	4271.9	2075.7	1850.9	1569.8	1521.7	1513.6	1465.4	1461.4
25683.4	50°	22459.4	16497.3	3794.1	1943.2	1762.5	1497.6	1421.3	1373.1	1288.8	1248.6
27092.6	52.5°	22792.6	15610.0	3099.5	1810.7	1618.0	1401.2	1292.8	1216.5	1112.1	1076.0
27903.6	55°	22351.0	13871.5	2477.2	1650.1	1417.3	1272.7	1152.3	1051.9	967.6	923.4
27991.9	57.5°	21271.0	11659.3	1959.3	1461.4	1204.5	1128.2	1007.7	907.4	835.1	790.9
27012.3	60°	19480.3	9258.4	1549.8	1236.6	1027.8	971.6	847.1	782.9	718.7	666.5
24482.9	62.5°	16762.2	6608.5	1216.5	979.6	859.2	795.0	722.7	674.5	598.2	526.0
19934.0	65°	13080.6	4043.0	939.5	718.7	690.6	658.4	614.3	570.1	477.8	405.5
13004.3	67.5°	8250.6	1915.1	670.5	542.0	546.0	530.0	509.9	473.8	405.5	341.3
5825.6	70°	3633.5	927.4	441.6	413.5	405.5	405.5	421.6	409.5	345.3	285.1
2023.5	72.5°	1236.6	497.8	329.2	313.2	293.1	289.1	353.3	341.3	277.0	220.8
1007.7	75°	646.4	333.2	240.9	224.8	176.7	212.8	281.0	265.0	196.7	144.5
666.5	77.5°	421.6	236.9	164.6	144.5	100.4	140.5	208.8	184.7	116.4	72.3
437.6	80°	265.0	156.6	96.4	68.3	48.2	76.3	112.4	80.3	44.2	16.1
257.0	82.5°	140.5	80.3	36.1	24.1	20.1	24.1	28.1	20.1	8.0	0.0
132.5	85°	56.2	28.1	12.0	8.0	4.0	0.0	8.0	4.0	0.0	0.0
24.1	87.5°	20.1	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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180°
7941.5
7419.5
6211.1
4629.2
3123.6
2529.4
2465.2
2429.0
2372.8
2316.6
2280.5
2252.4
2224.3
2196.2
2176.1
2152.0
2075.7
1907.1
1686.3
1457.4
1252.7
1072.0
923.4
782.9
654.4
513.9
393.5
333.2
273.0
208.8
132.5
64.2
12.0
0.0
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