

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: P954545

Luminaire Tested: **GALN-SB7D-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
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-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

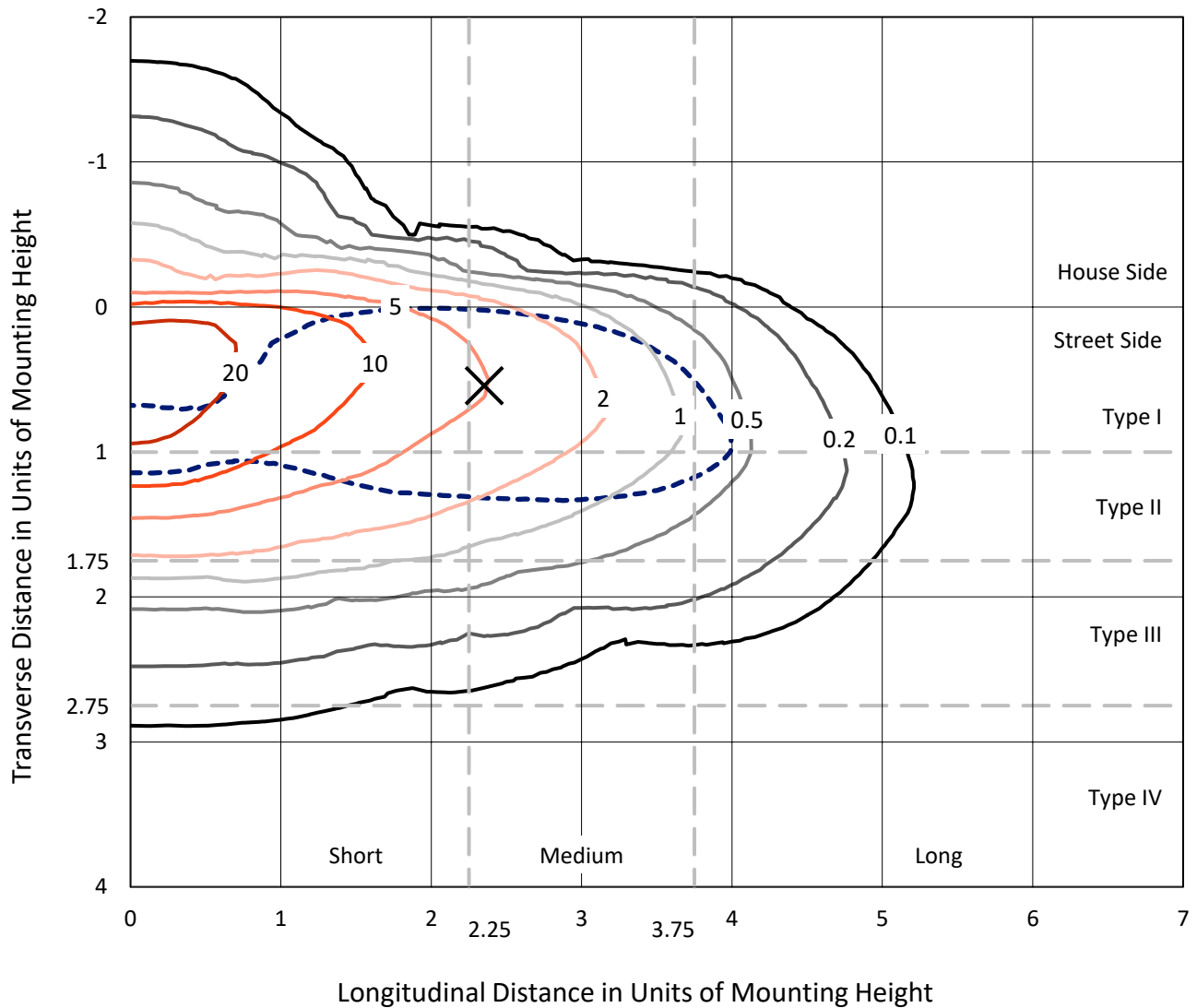
Lumens per Lamp: N/A  
Luminaire Lumens: 61273 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

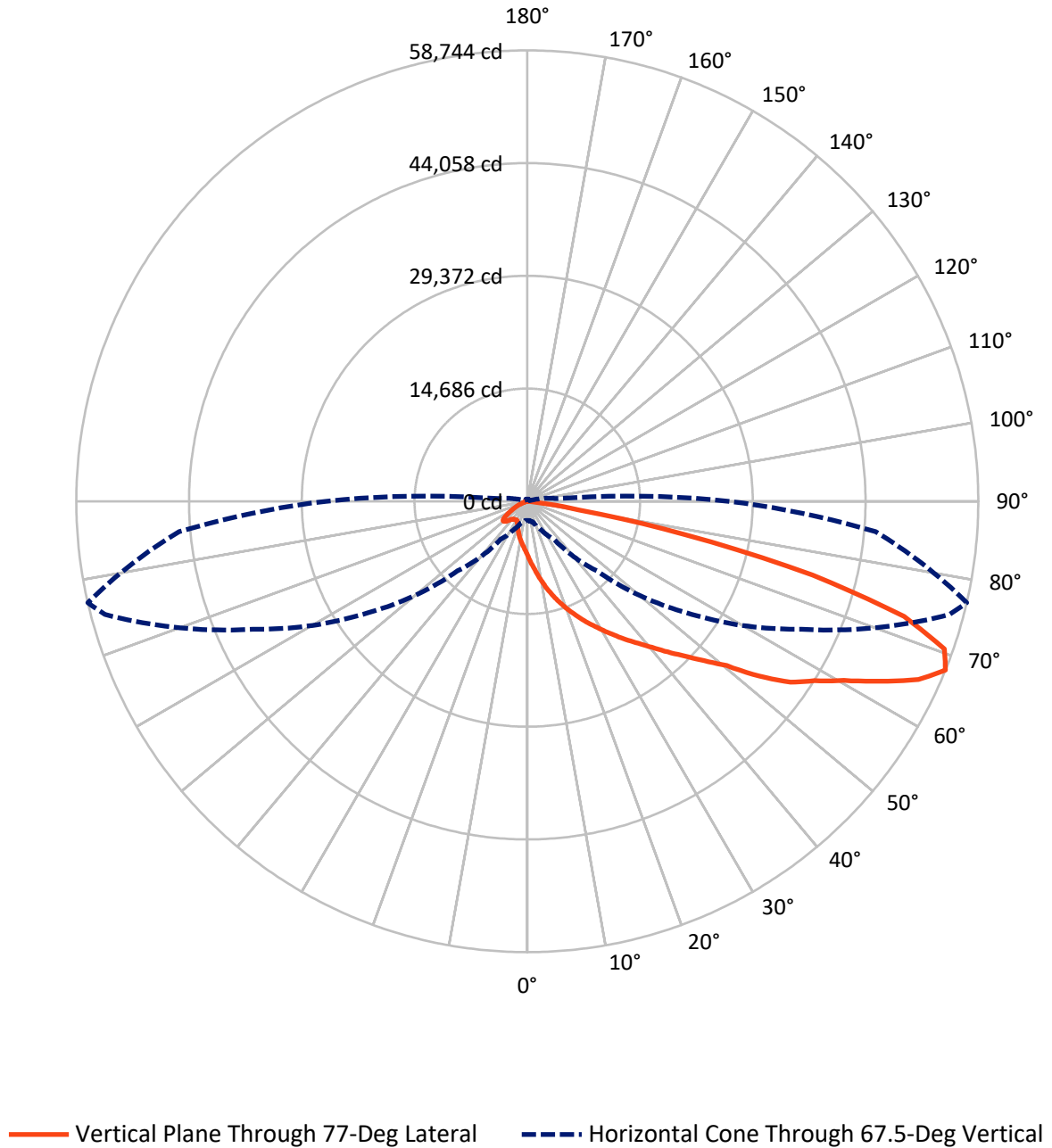
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4507.9	0.0	4507.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	56765.1	0.0	56765.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	61273.0	0.0	61273.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.2	1.2
10°-20°	2525.4	4.1
20°-30°	4873.4	8.0
30°-40°	8460.5	13.8
40°-50°	12284.2	20.0
50°-60°	14106.9	23.0
60°-70°	12247.4	20.0
70°-80°	5768.7	9.4
80°-90°	285.3	0.5
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°	61273.0	100.0
0°-180°	61273.0	100.0

**Coefficient of Utilization**



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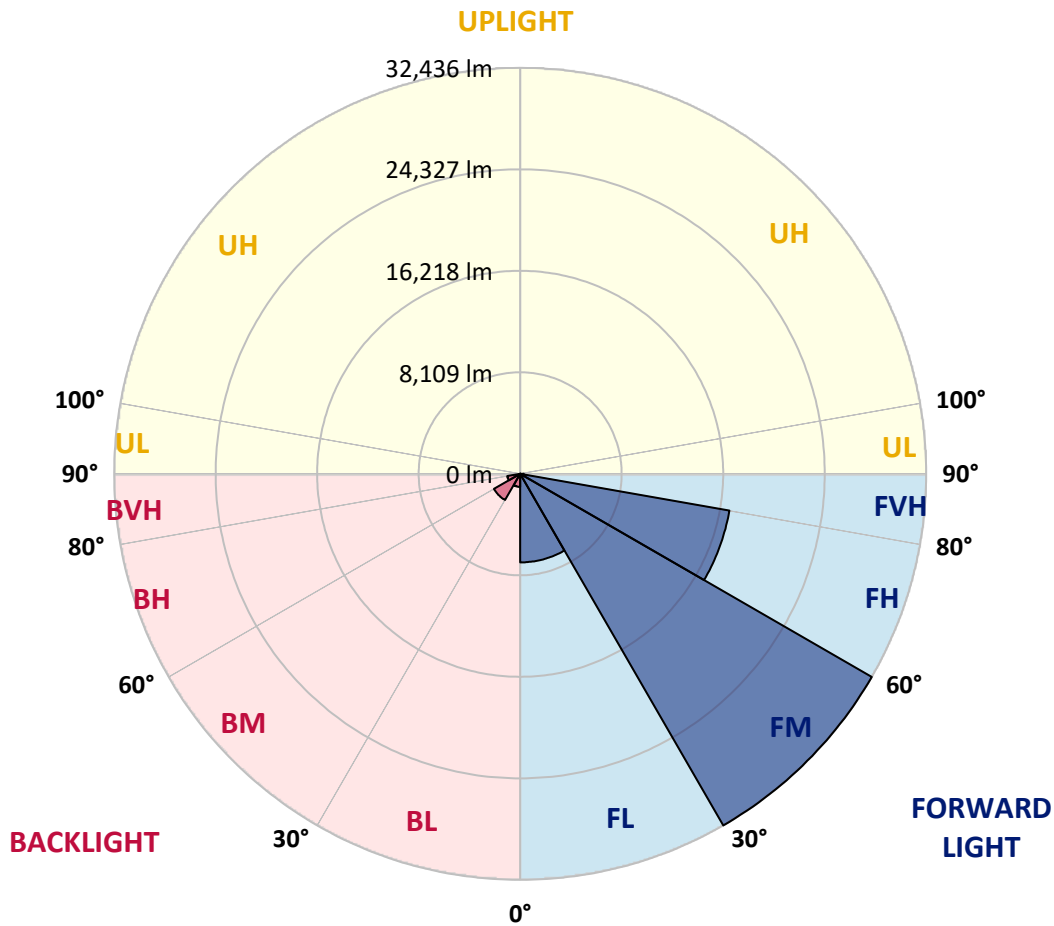
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7076.4	11.5			
FM (30°-60°)	32436.3	52.9			
FH (60°-80°)	16972.4	27.7			G5
FVH (80°-90°)	280.0	0.5			G3/500
BL (0°-30°)	1043.6	1.7	B3/2500		
BM (30°-60°)	2415.4	3.9	B2/2500		
BH (60°-80°)	1043.6	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.2	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7
2.5°	9782.4	9843.2	9755.7	9588.3	9337.2	9173.6	8774.1	8397.4	7978.9	7845.7
5°	11924.5	11977.8	11878.9	11696.2	11361.4	11041.8	10516.7	9729.1	8911.0	8648.5
7.5°	13511.2	13541.6	13503.5	13336.1	13016.5	12655.1	12069.1	11136.9	9923.1	9634.0
10°	14652.6	14751.6	14740.1	14675.5	14462.4	14169.4	13545.4	12483.8	11057.0	10684.1
12.5°	15409.8	15520.1	15584.8	15729.4	15718.0	15531.6	14983.7	13861.2	12187.1	11749.5
15°	15630.5	15748.4	15995.8	16330.6	16627.4	16722.5	16338.2	15211.9	13431.3	12871.9
17.5°	15504.9	15687.6	15984.3	16513.2	17163.9	17593.8	17551.9	16517.0	14561.3	13922.1
20°	15782.7	15957.7	16189.8	16635.0	17392.1	18172.1	18484.1	17765.0	15683.7	15014.1
22.5°	17319.9	17289.4	17312.2	17384.5	17837.3	18609.7	19252.7	18898.9	16794.8	16109.9
25°	19755.0	19618.0	19385.9	18994.0	18879.9	19252.7	19922.4	19903.4	17966.7	17232.3
27.5°	22547.8	22524.9	21980.8	21037.2	20504.5	20360.0	20679.6	20881.2	19127.2	18343.4
30°	25222.6	25283.5	24549.1	23499.0	22521.1	21954.2	21665.0	21809.6	20306.7	19541.9
32.5°	27551.2	27615.9	26816.9	25587.9	24377.9	23693.0	23084.3	22726.6	21592.7	20759.5
35°	29518.3	29583.0	28666.0	27307.7	26017.8	25397.6	24708.9	23731.1	22886.4	22110.2
37.5°	31276.2	31257.2	30028.2	28658.4	27391.4	26900.6	26539.1	24967.7	24218.1	23468.6
40°	32314.9	32394.8	31344.7	29834.1	28605.2	28247.5	28224.7	26501.0	25755.3	25028.6
42.5°	32619.3	32760.1	31999.1	30758.7	29643.9	29255.8	29853.2	28160.0	27543.6	26835.9
45°	32071.4	32208.4	31862.1	31002.2	30351.6	30100.5	31253.4	29879.8	29453.6	28753.5
47.5°	30473.4	30644.6	30728.3	30545.6	30538.0	30793.0	32509.0	31690.9	31721.4	31006.0
50°	27380.0	27669.1	28437.7	29084.6	30085.3	31340.9	33730.3	33654.2	34278.2	33661.8
52.5°	21756.4	22167.3	24815.5	26584.8	28833.4	31238.1	35073.5	36804.7	38764.2	37862.4
55°	17483.5	17483.5	19637.0	22947.3	26390.7	30560.9	35659.4	38851.7	41819.5	41606.5
57.5°	14253.1	14424.3	15797.9	18723.9	22856.0	28947.6	36020.9	40137.8	44281.3	44125.3
60°	8796.9	9166.0	11760.9	14648.8	18834.2	26074.9	35792.6	41439.0	47268.1	47393.7
62.5°	4954.0	5090.9	6247.6	10539.5	14645.0	22212.9	34046.1	42165.8	51088.2	51620.9
65°	3420.6	3489.1	3934.3	6559.6	10151.4	17685.1	30633.2	41713.0	54916.0	55992.7
67.5°	2484.6	2518.8	2796.6	4006.5	6023.1	12822.5	25283.5	39430.1	56944.0	58743.7
70°	1910.1	1932.9	2134.5	2633.0	3557.6	7914.2	18362.4	34890.8	55475.3	57625.0
72.5°	1552.4	1575.2	1731.2	1948.1	2359.0	4680.0	11129.3	28335.0	48991.7	51312.7
75°	1308.9	1339.3	1480.1	1620.9	1849.2	3005.9	5220.3	19732.2	36842.7	38364.7
77.5°	726.7	669.7	1202.3	1343.1	1560.0	1902.4	2442.7	11612.5	20633.9	21056.3
80°	452.8	468.0	955.0	1080.6	1198.5	958.8	1118.6	4470.7	7153.2	6795.5
82.5°	26.6	60.9	734.3	780.0	821.9	410.9	422.3	1518.2	1723.6	1582.8
85°	0.0	0.0	334.8	270.1	285.4	118.0	121.8	353.9	232.1	251.1
87.5°	0.0	0.0	0.0	7.6	0.0	11.4	22.8	30.4	11.4	15.2
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°
7065.7	0°	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7	7065.7
7427.1	2.5°	7160.8	6894.5	6354.2	5825.3	5395.3	4995.8	4710.5	4440.3	4303.3	4295.7
7906.6	5°	7377.7	6818.4	5737.8	4782.7	4014.2	3397.8	2998.3	2712.9	2568.3	2518.8
8496.3	7.5°	7682.1	6841.2	5197.5	3869.6	2964.0	2435.1	2206.8	2115.5	2085.1	2050.8
9162.2	10°	8066.4	6894.5	4714.3	3116.2	2336.2	2069.9	1978.5	1940.5	1917.7	1894.8
9911.7	12.5°	8496.3	6943.9	4234.8	2587.3	2054.6	1917.7	1853.0	1807.3	1776.9	1750.2
10680.3	15°	8914.9	6974.4	3736.4	2218.2	1910.1	1799.7	1731.2	1681.8	1639.9	1609.5
11433.7	17.5°	9329.6	7016.2	3268.4	1997.6	1792.1	1681.8	1613.3	1552.4	1518.2	1483.9
12225.1	20°	9790.0	7008.6	2827.0	1841.6	1674.2	1563.8	1491.5	1434.4	1400.2	1362.2
13062.2	22.5°	10216.1	6970.6	2438.9	1708.4	1552.4	1445.9	1366.0	1308.9	1274.6	1244.2
13918.3	25°	10707.0	6940.1	2115.5	1586.6	1438.2	1331.7	1244.2	1190.9	1152.9	1126.2
14778.2	27.5°	11178.8	6894.5	1879.6	1476.3	1327.9	1225.2	1141.5	1080.6	1046.3	1027.3
15664.7	30°	11643.0	6883.0	1792.1	1369.8	1229.0	1126.2	1042.5	985.5	958.8	951.2
16638.8	32.5°	12202.3	6913.5	1830.2	1331.7	1137.7	1034.9	955.0	913.2	886.5	886.5
17723.2	35°	12799.6	6905.9	1887.2	1366.0	1076.8	943.6	882.7	856.1	829.5	829.5
18925.5	37.5°	13549.2	6917.3	1932.9	1423.0	1054.0	867.5	833.3	799.0	783.8	783.8
20242.0	40°	14667.8	7294.0	1910.1	1472.5	1046.3	814.2	745.8	734.3	722.9	722.9
21729.7	42.5°	16037.6	8112.0	1940.5	1476.3	1042.5	776.2	684.9	707.7	681.1	677.3
23407.7	45°	17536.7	9006.2	2134.5	1396.4	1038.7	757.2	654.4	681.1	639.2	639.2
25352.0	47.5°	19024.4	9892.7	2332.4	1282.2	1027.3	753.4	627.8	612.6	601.2	605.0
27886.0	50°	21075.3	10615.6	2408.5	1126.2	1000.7	745.8	578.3	582.1	574.5	582.1
31458.8	52.5°	23308.7	10767.8	2317.2	951.2	924.6	722.9	544.1	559.3	555.5	563.1
33973.8	55°	24701.3	10604.2	1913.9	791.4	806.6	631.6	509.9	540.3	540.3	540.3
36431.8	57.5°	26139.6	9907.9	1358.3	643.0	669.7	517.5	479.4	521.3	517.5	513.7
39392.0	60°	27174.5	8781.7	894.1	528.9	532.7	426.1	445.2	490.8	487.0	468.0
42443.5	62.5°	27946.9	7537.5	574.5	449.0	407.1	384.3	407.1	445.2	430.0	388.1
45030.9	65°	27859.4	5813.9	441.4	384.3	334.8	334.8	353.9	388.1	342.4	274.0
45525.5	67.5°	26234.7	3934.3	365.3	323.4	281.6	277.8	293.0	323.4	293.0	232.1
42991.4	70°	23331.6	2572.1	293.0	251.1	224.5	205.5	235.9	277.8	247.3	186.4
36599.2	72.5°	18936.9	1567.6	220.7	182.6	163.6	133.2	186.4	228.3	197.9	137.0
25450.9	75°	12251.7	799.0	152.2	118.0	87.5	79.9	137.0	171.2	137.0	83.7
11292.9	77.5°	4687.6	334.8	83.7	53.3	45.7	38.0	76.1	102.7	57.1	19.0
2187.8	80°	901.8	140.8	41.9	26.6	22.8	15.2	11.4	7.6	0.0	0.0
388.1	82.5°	156.0	45.7	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
76.1	85°	53.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.6	87.5°	19.0	0.0	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°
7065.7
4288.1
2511.2
2043.2
1887.2
1742.6
1605.7
1480.1
1358.3
1240.4
1122.4
1027.3
947.4
886.5
829.5
783.8
722.9
673.5
639.2
605.0
582.1
563.1
540.3
513.7
468.0
380.5
266.3
224.5
178.8
129.4
72.3
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