

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: P955979

Luminaire Tested: **GALN-SB8D-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

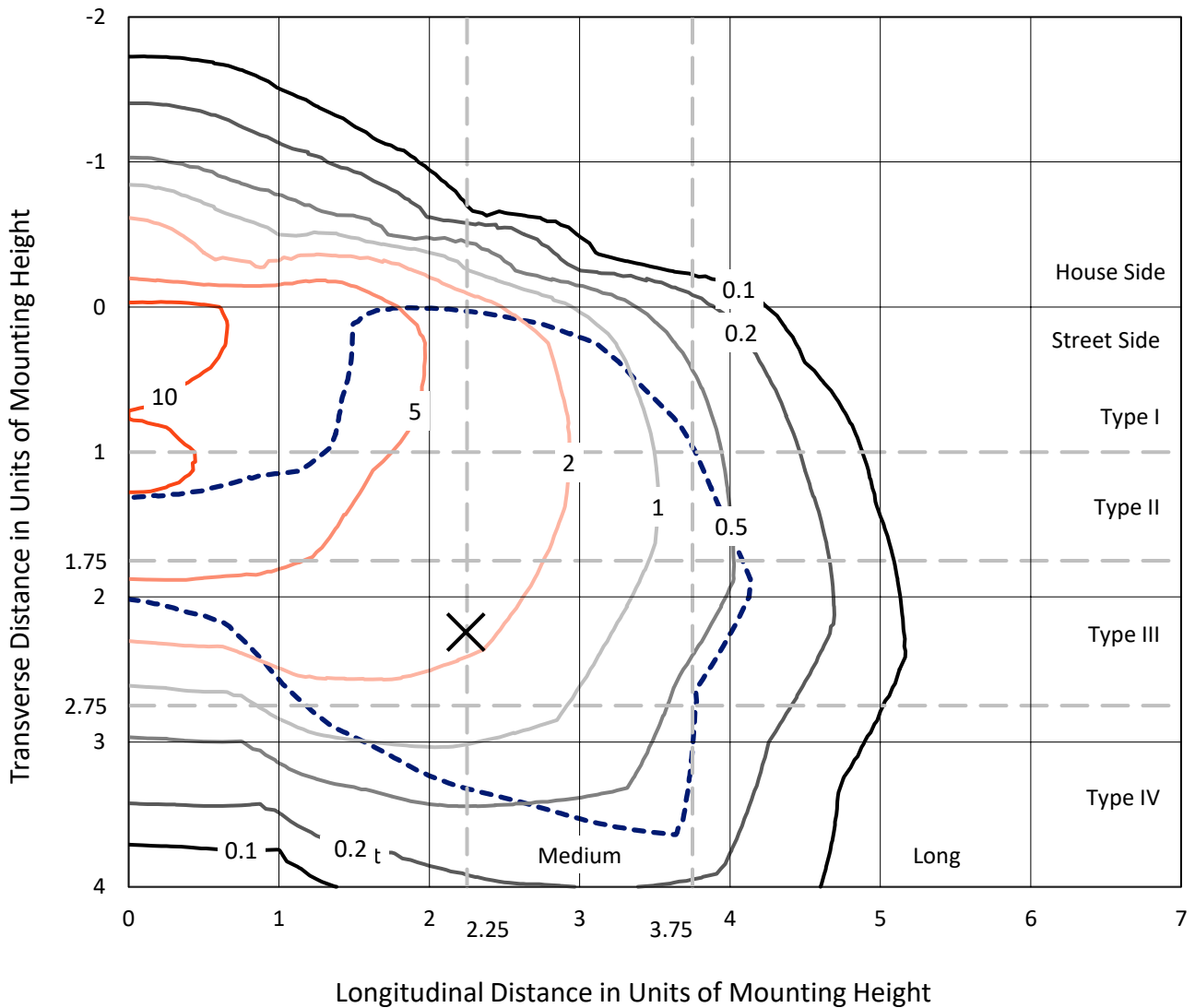
Lumens per Lamp: N/A  
Luminaire Lumens: 63383 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

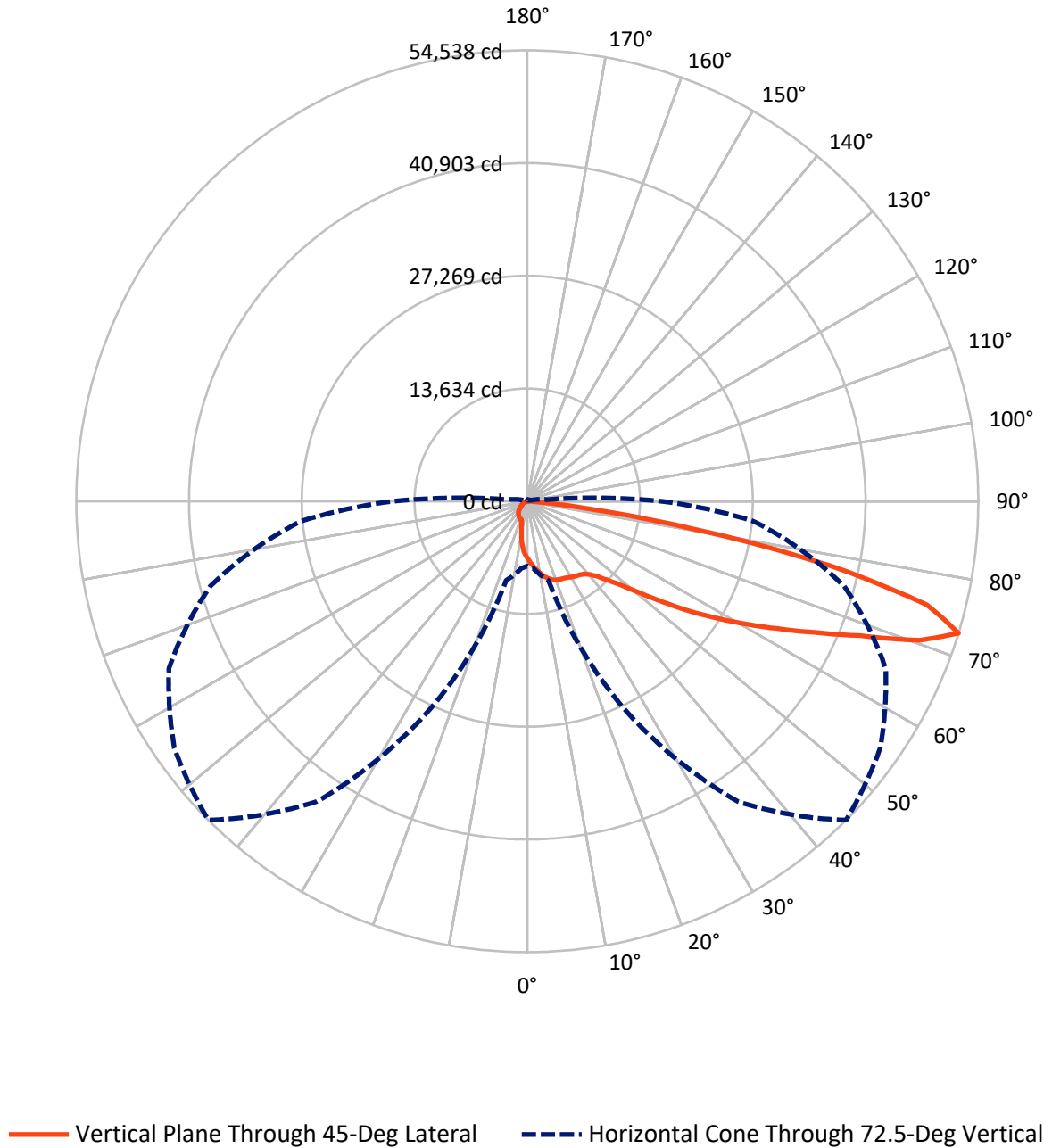
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	6659.8	0.0	6659.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	56723.2	0.0	56723.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	63383.0	0.0	63383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.2	1.0
10°-20°	1912.1	3.0
20°-30°	3139.9	5.0
30°-40°	4453.1	7.0
40°-50°	7360.6	11.6
50°-60°	13222.4	20.9
60°-70°	18360.0	29.0
70°-80°	13317.8	21.0
80°-90°	962.8	1.5
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°	63383.0	100.0
0°-180°	63383.0	100.0

**Coefficient of Utilization**



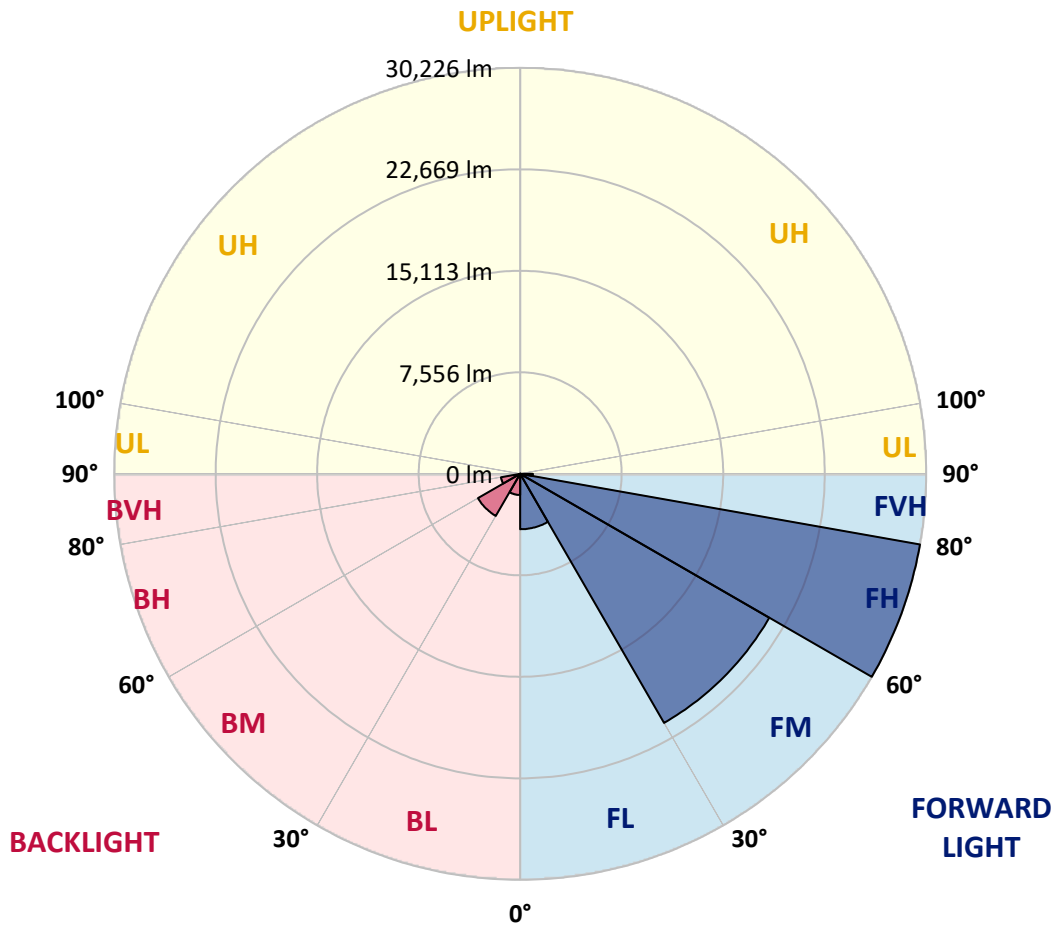
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 CATALOG NUMBER: GALN-SB8D-735-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4128.8	6.5			
FM (30°-60°)	21414.1	33.8			
FH (60°-80°)	30225.5	47.7			G5
FVH (80°-90°)	954.7	1.5			G5
BL (0°-30°)	1577.4	2.5	B3/2500		
BM (30°-60°)	3622.0	5.7	B3/5000		
BH (60°-80°)	1452.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	8.1	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°	35°	45°	46°	55°	65°	75°
0°	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7
2.5°	7584.0	7597.0	7588.4	7536.4	7449.9	7402.3	7376.4	7289.8	7233.6	7134.1
5°	8280.6	8332.5	8302.2	8198.4	8034.0	7917.2	7882.6	7705.2	7545.1	7359.1
7.5°	9020.4	9046.3	8990.1	8856.0	8635.3	8436.3	8406.0	8159.4	7904.2	7618.6
10°	9660.7	9691.0	9604.4	9409.7	9158.8	8912.2	8869.0	8596.4	8293.6	7943.1
12.5°	10197.1	10227.4	10114.9	9881.3	9604.4	9349.2	9305.9	9020.4	8687.2	8297.9
15°	10603.8	10660.1	10508.6	10257.7	9959.2	9703.9	9682.3	9401.1	9076.6	8644.0
17.5°	10841.8	10898.0	10755.2	10452.4	10197.1	9980.8	9954.9	9721.2	9418.4	9003.1
20°	10880.7	10932.6	10781.2	10517.3	10305.3	10132.2	10119.3	9950.5	9729.9	9331.9
22.5°	10763.9	10828.8	10690.3	10478.3	10331.3	10240.4	10223.1	10127.9	10002.5	9665.0
25°	10642.7	10694.7	10590.8	10404.8	10326.9	10318.3	10331.3	10313.9	10288.0	10002.5
27.5°	10634.1	10690.3	10573.5	10396.1	10352.9	10443.7	10456.7	10538.9	10560.5	10309.6
30°	10707.6	10746.6	10634.1	10448.1	10426.4	10634.1	10638.4	10785.5	10820.1	10569.2
32.5°	10867.7	10911.0	10798.5	10525.9	10495.7	10785.5	10798.5	10993.2	11049.4	10846.1
35°	11244.1	11296.0	11166.2	10742.3	10634.1	10928.3	10967.2	11196.5	11309.0	11140.3
37.5°	12182.9	12031.5	11854.1	11179.2	10949.9	11153.3	11218.1	11486.4	11685.4	11490.7
40°	14514.8	14038.9	13485.1	11923.3	11503.7	11633.5	11685.4	11953.6	12226.2	12035.8
42.5°	18014.8	17452.4	16561.2	13636.6	12338.7	12403.6	12442.5	12676.1	13061.2	12909.7
45°	21134.1	20930.7	20022.2	16561.2	13900.5	13580.3	13627.9	13749.0	14315.8	14259.5
47.5°	23530.9	23414.0	22713.2	19918.4	16539.5	15021.0	15155.1	15211.3	16029.0	16228.0
50°	25373.9	25330.6	24703.3	22903.5	19987.6	17145.2	17192.8	17071.7	18296.0	18789.2
52.5°	27113.0	27260.1	26797.2	25676.7	23669.3	19927.0	19918.4	19347.3	21000.0	21744.1
55°	28683.5	28735.4	28783.0	28506.1	27372.6	23093.9	23011.7	22077.2	24136.5	24906.6
57.5°	30158.8	30180.4	30604.4	31171.1	31227.4	26494.4	26343.0	25222.4	27563.0	28112.4
60°	31149.5	31249.0	32144.6	33719.3	34407.2	30003.0	29920.8	28778.7	31050.0	31305.2
62.5°	29721.8	30327.5	32585.8	35709.4	37409.7	33892.4	33853.4	32780.5	34718.7	34511.0
65°	24058.7	25084.0	29055.6	37054.9	40355.9	38236.0	38292.3	37150.1	38486.9	37812.0
67.5°	16829.4	17911.0	22609.3	37163.1	43648.2	43336.7	43661.2	41870.1	42488.8	40974.6
70°	11637.8	12195.9	15254.6	34835.5	46213.7	50362.7	50354.0	47667.4	46469.0	42415.2
72.5°	7826.3	8116.2	9907.3	27636.5	44327.5	54537.6	54286.7	52097.5	47810.2	39668.0
75°	3301.0	3513.0	4585.9	15531.5	35069.1	49895.4	49216.2	46040.7	42480.1	31236.0
77.5°	1047.0	1137.8	1808.4	5559.3	19317.0	37504.9	36786.7	28752.7	28471.5	15669.9
80°	497.5	579.7	1016.7	2232.4	7601.3	20398.6	20299.1	13043.9	12247.8	4231.1
82.5°	216.3	255.3	562.4	1194.1	3400.5	7276.9	7424.0	4438.8	3673.0	1605.1
85°	69.2	90.9	259.6	549.4	1436.3	1808.4	1786.8	1055.6	1479.6	873.9
87.5°	0.0	0.0	86.5	125.5	147.1	103.8	116.8	90.9	411.0	242.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955979

CATALOG NUMBER: GALN-SB8D-735-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6943.7	0°	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7	6943.7
7030.3	2.5°	6978.4	6909.1	6788.0	6675.5	6576.0	6476.5	6415.9	6329.4	6320.8	6320.8
7142.8	5°	7025.9	6913.5	6697.1	6467.8	6203.9	5953.0	5702.1	5459.8	5381.9	5325.7
7324.5	7.5°	7164.4	6987.0	6645.2	6208.3	5706.4	5157.0	4771.9	4356.6	4196.5	4110.0
7566.7	10°	7363.4	7121.1	6602.0	5836.2	5022.9	4274.4	3725.0	3275.0	3102.0	3028.4
7830.6	12.5°	7584.0	7285.5	6524.1	5373.3	4274.4	3378.9	2842.4	2634.7	2608.8	2608.8
8146.5	15°	7847.9	7484.5	6390.0	4828.2	3491.3	2673.7	2483.3	2492.0	2517.9	2535.2
8453.6	17.5°	8120.5	7696.5	6178.0	4218.2	2799.1	2405.4	2409.8	2422.7	2444.4	2461.7
8786.8	20°	8414.7	7908.5	5896.8	3569.2	2401.1	2327.6	2340.5	2353.5	2370.8	2379.5
9098.2	22.5°	8730.5	8107.5	5563.6	2933.2	2267.0	2262.7	2267.0	2280.0	2301.6	2301.6
9461.7	25°	9068.0	8328.2	5182.9	2470.3	2197.8	2197.8	2206.4	2215.1	2232.4	2232.4
9812.1	27.5°	9414.1	8531.5	4780.6	2228.1	2137.2	2132.9	2132.9	2145.9	2154.5	2158.8
10158.2	30°	9794.8	8769.4	4378.2	2176.1	2089.6	2068.0	2055.0	2063.7	2072.3	2076.6
10521.6	32.5°	10184.2	8998.7	4019.2	2197.8	2042.0	2003.1	1959.8	1951.2	1951.2	1968.5
10898.0	35°	10616.8	9249.7	3742.3	2271.3	2016.1	1907.9	1838.7	1799.7	1804.1	1830.0
11347.9	37.5°	11135.9	9552.5	3538.9	2336.2	1998.8	1799.7	1687.3	1639.7	1609.4	1639.7
11966.6	40°	11815.2	9998.1	3391.8	2388.1	1977.1	1674.3	1522.9	1445.0	1388.7	1406.1
12927.0	42.5°	12814.6	10699.0	3335.6	2392.5	1929.5	1527.2	1354.1	1250.3	1168.1	1172.4
14372.0	45°	14216.3	11806.5	3625.5	2336.2	1825.7	1367.1	1176.8	1038.3	986.4	973.4
16530.9	47.5°	16137.2	13420.2	4296.0	2219.4	1674.3	1211.4	1003.7	886.9	848.0	826.3
19364.6	50°	18711.3	15492.5	5040.2	2089.6	1522.9	1064.3	860.9	787.4	761.4	739.8
22726.2	52.5°	21696.5	17595.1	5650.2	1959.8	1371.4	934.5	770.1	726.8	705.2	687.9
25970.9	55°	24435.1	19044.5	5615.6	1821.4	1224.3	830.7	705.2	679.2	653.3	636.0
28765.7	57.5°	26139.6	19247.8	4629.2	1670.0	1055.6	748.5	644.6	627.3	597.0	575.4
31184.1	60°	26922.7	18088.3	3244.7	1470.9	886.9	670.6	579.7	571.1	532.1	501.9
33472.7	62.5°	27065.5	15933.8	2163.2	1224.3	739.8	597.0	514.8	501.9	449.9	398.0
35333.0	65°	26485.7	12853.5	1496.9	956.1	631.6	519.2	441.3	415.3	359.1	307.2
35774.3	67.5°	24651.4	9024.7	1042.6	687.9	536.5	411.0	350.4	341.8	298.5	255.3
33524.6	70°	21289.8	5144.0	696.5	514.8	424.0	281.2	276.9	285.5	242.3	207.7
27389.9	72.5°	16323.2	2353.5	432.6	376.4	289.9	190.4	220.6	225.0	186.0	155.7
17089.0	75°	9608.8	1008.0	272.6	242.3	147.1	125.5	160.1	164.4	125.5	99.5
6247.2	77.5°	3270.7	380.7	173.1	142.8	73.5	69.2	103.8	103.8	69.2	38.9
1254.6	80°	744.1	142.8	86.5	56.2	34.6	30.3	34.6	30.3	17.3	4.3
385.0	82.5°	212.0	56.2	34.6	21.6	13.0	13.0	4.3	0.0	0.0	0.0
134.1	85°	60.6	26.0	8.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0
47.6	87.5°	26.0	4.3	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>
6943.7
6342.4
5351.7
4123.0
3028.4
2608.8
2535.2
2461.7
2383.8
2310.3
2236.7
2163.2
2085.3
1981.5
1843.0
1631.0
1397.4
1155.1
956.1
813.3
735.5
683.6
627.3
571.1
493.2
372.1
289.9
242.3
190.4
138.4
86.5
30.3
0.0
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