

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: P943348

Luminaire Tested: **GALN-SB7D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943348
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 57970 lumens
Efficiency: N/A
Efficacy: 113.0 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

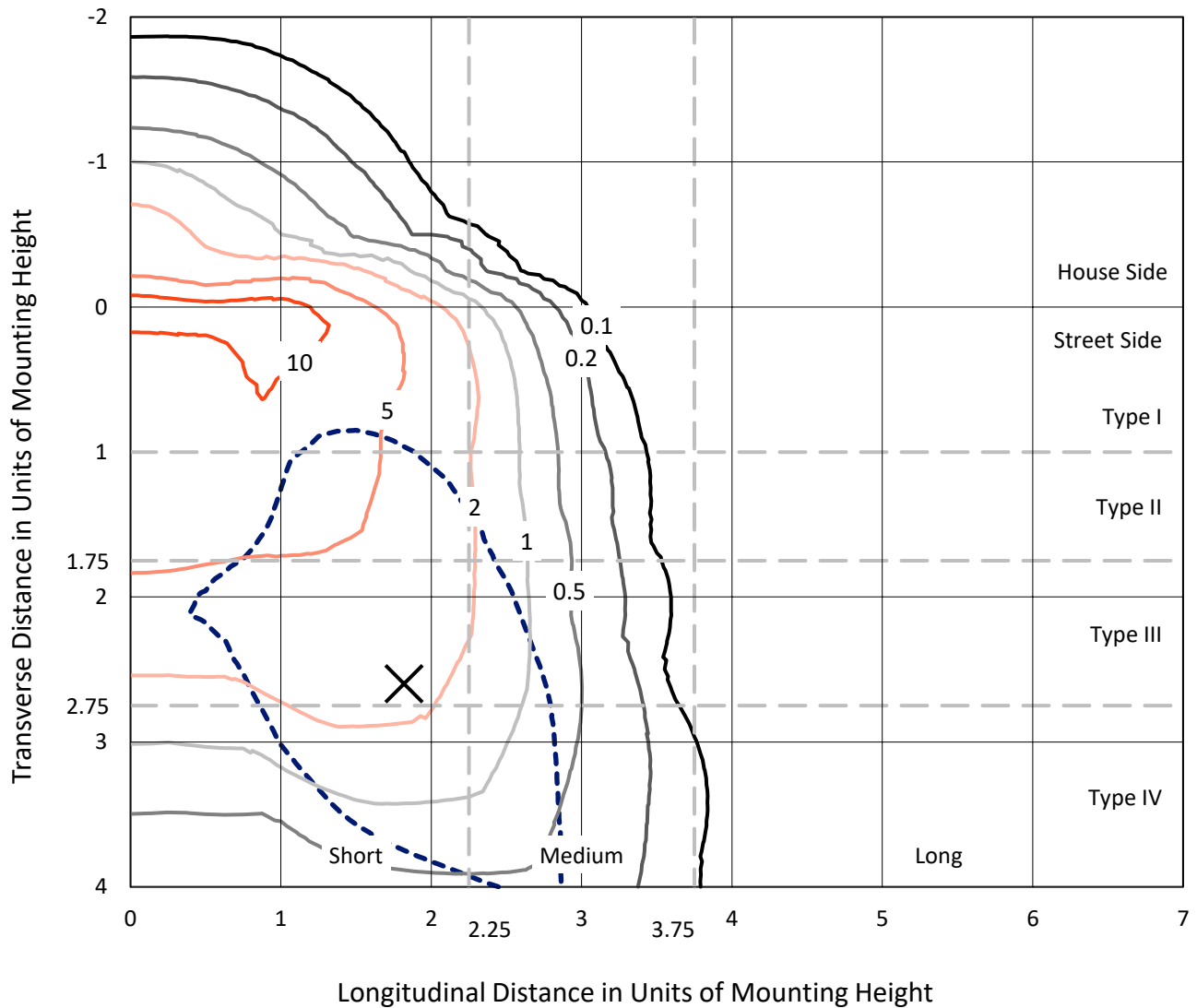
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

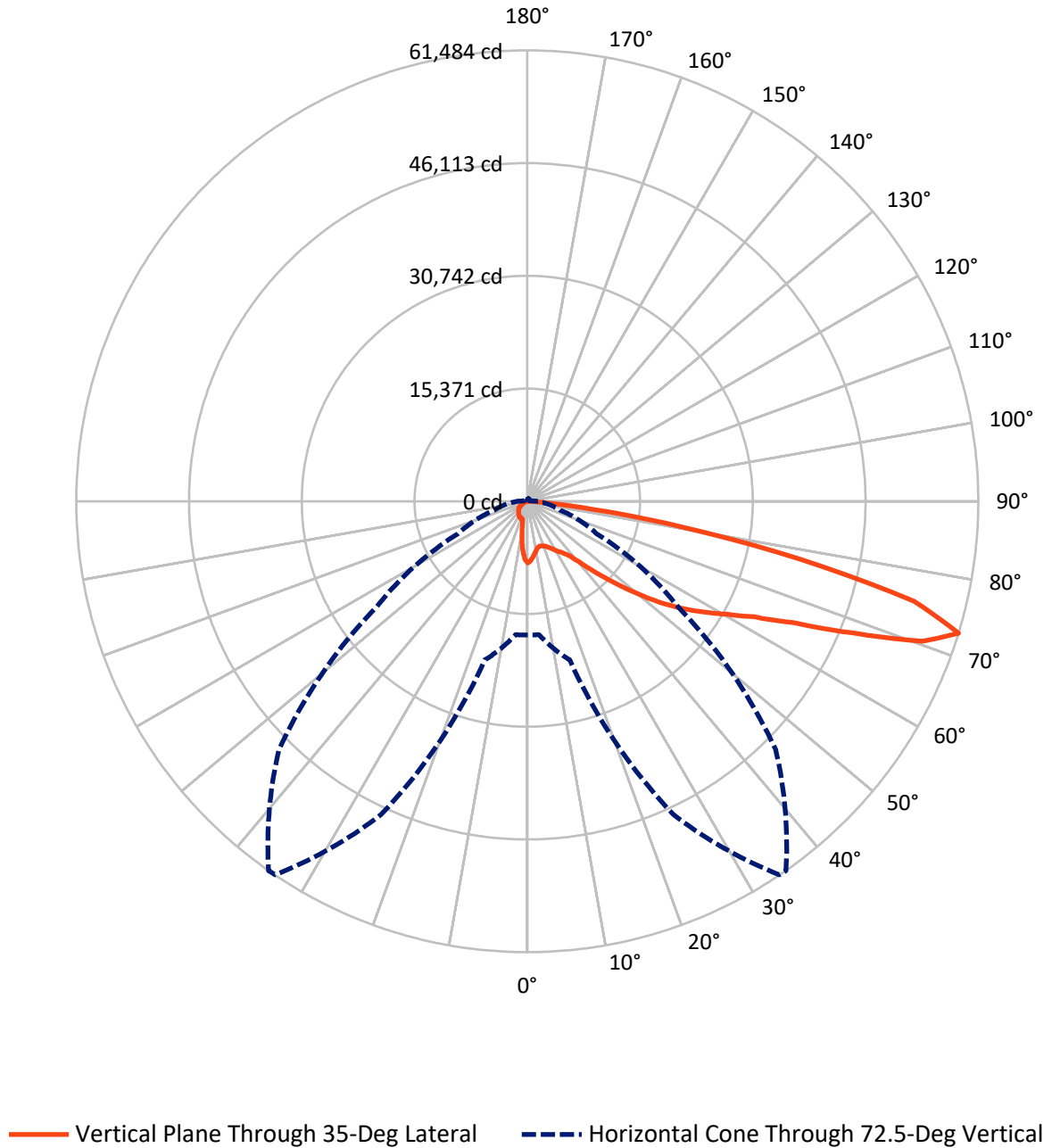
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	6524.3	0.0	6524.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	51445.7	0.0	51445.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	57970.0	0.0	57970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.4	1.2
10°-20°	1615.1	2.8
20°-30°	2623.7	4.5
30°-40°	4377.6	7.6
40°-50°	8282.6	14.3
50°-60°	13161.0	22.7
60°-70°	16281.1	28.1
70°-80°	10120.5	17.5
80°-90°	817.9	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°	57970.0	100.0
0°-180°	57970.0	100.0

Coefficient of Utilization



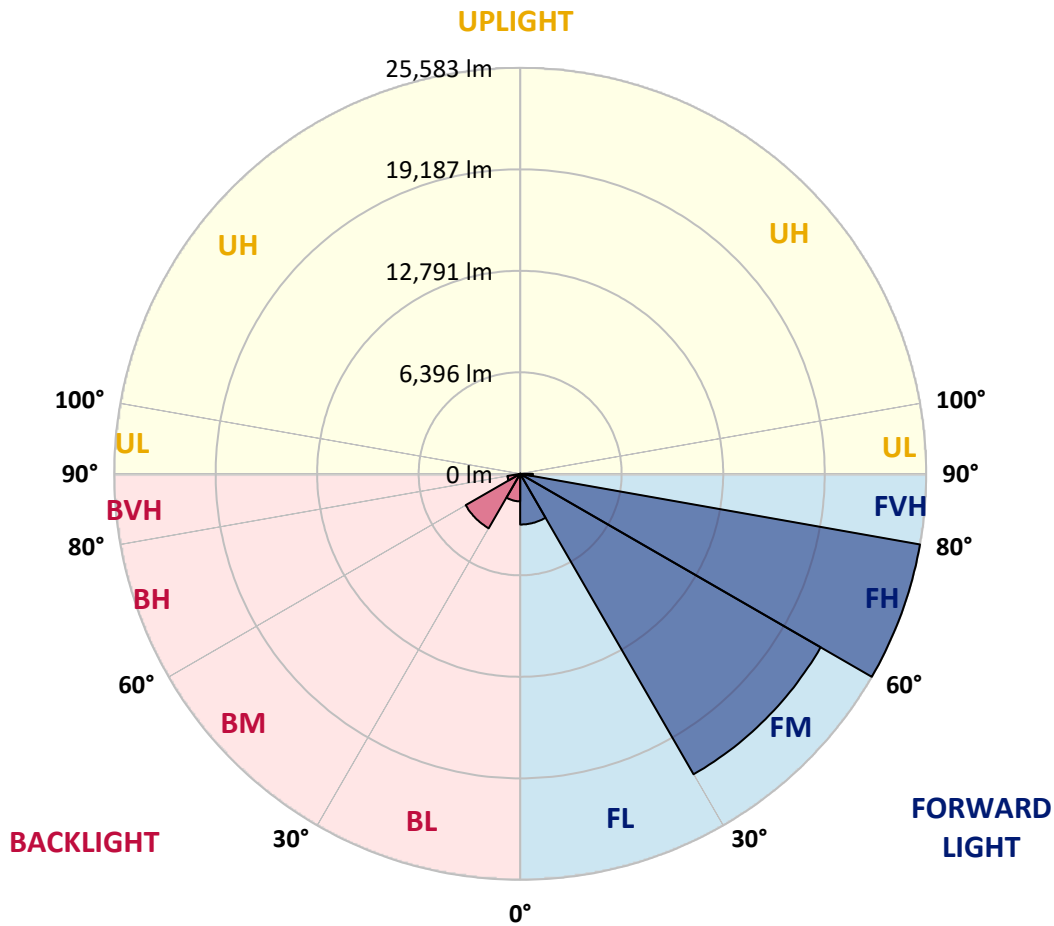
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.6	5.5			
FM (30°-60°)	21860.5	37.7			
FH (60°-80°)	25582.9	44.1			G5
FVH (80°-90°)	806.8	1.4			G5
BL (0°-30°)	1733.6	3.0	B3/2500		
BM (30°-60°)	3960.8	6.8	B3/5000		
BH (60°-80°)	818.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	11.1	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°	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8
2.5°	8028.0	8096.0	8108.7	8129.9	8129.9	8155.4	8197.9	8257.4	8355.1	8406.0
5°	7399.4	7450.3	7514.0	7565.0	7662.7	7675.5	7841.1	8002.5	8227.6	8397.5
7.5°	6766.5	6825.9	6910.9	7034.1	7161.5	7199.7	7450.3	7722.2	8079.0	8397.5
10°	6320.5	6324.7	6401.2	6524.3	6728.2	6775.0	7080.8	7467.3	7913.3	8346.6
12.5°	6069.9	6099.6	6133.6	6227.0	6422.4	6452.1	6779.2	7233.7	7747.7	8316.8
15°	6069.9	6091.1	6112.3	6159.1	6316.2	6341.7	6630.5	7085.0	7662.7	8329.6
17.5°	6133.6	6167.5	6150.6	6205.8	6371.4	6388.4	6643.3	7042.6	7658.5	8410.3
20°	6286.5	6312.0	6278.0	6312.0	6477.6	6511.6	6775.0	7123.3	7730.7	8550.5
22.5°	6528.6	6541.3	6460.6	6486.1	6656.0	6698.5	7004.3	7352.6	7904.8	8775.6
25°	6834.4	6859.9	6736.7	6766.5	6927.9	6978.8	7331.4	7696.7	8180.9	9085.7
27.5°	7187.0	7199.7	7093.5	7089.3	7297.4	7369.6	7726.4	8121.5	8550.5	9476.4
30°	7590.5	7628.7	7526.8	7509.8	7773.1	7832.6	8185.2	8643.9	9094.2	10062.6
32.5°	7909.1	7938.8	7879.3	7921.8	8189.4	8236.1	8741.6	9383.0	9947.9	10895.2
35°	8367.8	8384.8	8248.9	8325.3	8631.2	8750.1	9501.9	10419.4	11022.6	11940.1
37.5°	10028.6	10028.6	9451.0	9072.9	9366.0	9472.2	10542.6	11723.4	12347.8	13341.8
40°	12326.6	12288.4	11443.1	10670.0	10631.8	10839.9	12025.0	13367.3	14059.6	15023.8
42.5°	14777.5	14718.0	13566.9	12802.3	12674.9	12747.1	13736.8	15393.4	16098.5	17075.4
45°	16952.3	16935.3	15881.9	14853.9	14624.6	14853.9	15873.4	17763.6	18269.0	19296.9
47.5°	18774.5	18774.5	18005.7	17334.5	17215.6	17351.5	18766.0	20392.8	20346.1	21662.9
50°	20872.8	20855.8	20125.2	19836.4	19959.6	20150.7	22096.1	23162.3	22495.4	23986.3
52.5°	22342.5	22444.4	22193.8	22147.1	22775.7	23107.1	25477.2	25872.3	24419.6	26190.8
55°	23506.3	23625.3	23914.1	24241.2	25451.8	25885.0	28752.2	28442.1	26029.4	28102.3
57.5°	25154.4	24984.5	25430.5	26076.2	28034.3	28556.8	31925.1	30867.5	27325.0	29652.7
60°	27155.0	27180.5	27257.0	28072.5	30612.6	31283.7	35051.4	33161.2	28157.5	30604.1
62.5°	29559.2	29597.4	29754.6	31007.6	34074.4	34707.3	38381.5	35038.6	28539.8	30336.5
65°	29393.5	29555.0	31309.2	35595.1	39337.2	39961.6	42268.1	36355.4	27962.1	27889.9
67.5°	26777.0	27040.4	29975.5	41074.5	47271.8	47968.4	46966.0	36614.5	25468.7	21688.4
70°	23344.9	23438.4	26968.2	46001.7	56459.4	57164.5	51171.1	33764.3	19326.7	12097.2
72.5°	18230.8	18252.0	22393.5	47144.4	61446.1	61484.3	47870.7	25065.2	10393.9	4646.9
75°	13023.2	12895.8	14998.4	38232.8	54059.5	54492.7	35888.2	11757.4	3971.5	2196.0
77.5°	6983.1	7123.3	8486.7	22673.8	37345.1	38084.2	19581.5	3389.6	2021.9	1495.2
80°	2157.8	2276.7	3478.8	10381.2	21153.2	21599.2	7259.2	1507.9	1410.2	1066.2
82.5°	679.6	705.1	1622.6	4362.3	8779.8	8983.7	2102.6	853.8	964.2	705.1
85°	195.4	199.6	722.1	1626.8	2170.5	2213.0	590.4	331.3	552.2	437.5
87.5°	21.2	68.0	271.8	271.8	191.1	186.9	63.7	72.2	157.2	55.2
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°
8401.8	0°	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8	8401.8
8440.0	2.5°	8418.8	8423.0	8367.8	8274.4	8172.4	8087.5	7981.3	7896.3	7836.9	7819.9
8516.5	5°	8478.3	8448.5	8291.4	8006.8	7667.0	7373.9	7046.8	6787.7	6617.8	6545.6
8597.2	7.5°	8567.5	8482.5	8138.4	7577.8	6927.9	6350.2	5764.0	5309.5	5020.7	4876.3
8673.6	10°	8643.9	8474.0	7883.6	6957.6	5963.7	5088.7	4298.6	3750.7	3444.8	3300.4
8762.8	12.5°	8716.1	8469.8	7552.3	6222.8	4876.3	3805.9	3071.0	2799.2	2714.2	2684.5
8907.3	15°	8852.0	8482.5	7136.0	5381.7	3793.1	2875.6	2608.0	2603.8	2620.8	2612.3
9128.1	17.5°	9038.9	8495.2	6664.5	4489.7	2926.6	2535.8	2523.1	2561.3	2586.8	2574.1
9404.2	20°	9281.1	8546.2	6163.3	3606.2	2514.6	2450.9	2480.6	2514.6	2535.8	2514.6
9773.8	22.5°	9620.9	8635.4	5615.4	2896.9	2382.9	2399.9	2425.4	2463.6	2484.9	2455.1
10245.3	25°	10037.1	8775.6	5075.9	2518.8	2319.2	2340.4	2378.7	2421.1	2446.6	2416.9
10839.9	27.5°	10576.6	9000.7	4578.9	2433.9	2255.5	2268.2	2323.4	2387.2	2421.1	2382.9
11685.2	30°	11358.1	9370.3	4149.9	2472.1	2217.3	2187.5	2264.0	2353.2	2391.4	2357.4
12836.3	32.5°	12394.6	9892.7	3886.6	2531.6	2200.3	2094.1	2166.3	2281.0	2344.7	2323.4
14340.0	35°	13753.8	10687.0	3784.6	2599.5	2187.5	1996.4	2047.4	2170.5	2281.0	2302.2
16234.4	37.5°	15401.9	11791.4	3814.4	2629.3	2149.3	1915.7	1941.2	2047.4	2191.8	2259.7
18366.7	40°	17275.1	13078.4	3984.3	2599.5	2106.8	1847.7	1852.0	1932.7	2060.1	2162.0
20660.4	42.5°	19207.7	14582.1	4298.6	2489.1	2068.6	1788.2	1775.5	1830.7	1915.7	1987.9
22949.9	45°	21047.0	16128.2	4608.7	2336.2	2021.9	1728.8	1699.0	1720.3	1737.3	1767.0
25179.9	47.5°	22652.6	17215.6	4519.5	2196.0	1958.2	1660.8	1609.8	1601.4	1550.4	1546.1
27172.0	50°	23761.2	17453.5	4014.0	2055.8	1864.7	1584.4	1503.7	1452.7	1363.5	1321.0
28663.0	52.5°	24113.8	16514.8	3279.2	1915.7	1711.8	1482.4	1367.7	1287.0	1176.6	1138.4
29521.0	55°	23646.5	14675.5	2620.8	1745.8	1499.4	1346.5	1219.1	1112.9	1023.7	977.0
29614.4	57.5°	22503.9	12335.1	2072.8	1546.1	1274.3	1193.6	1066.2	960.0	883.5	836.8
28578.0	60°	20609.5	9795.0	1639.6	1308.3	1087.4	1027.9	896.2	828.3	760.3	705.1
25902.0	62.5°	17733.8	6991.6	1287.0	1036.4	909.0	841.0	764.6	713.6	632.9	556.4
21089.4	65°	13838.8	4277.4	993.9	760.3	730.6	696.6	649.9	603.2	505.5	429.0
13758.0	67.5°	8728.9	2026.1	709.4	573.4	577.7	560.7	539.4	501.2	429.0	361.0
6163.3	70°	3844.1	981.2	467.2	437.5	429.0	429.0	446.0	433.3	365.3	301.6
2140.8	72.5°	1308.3	526.7	348.3	331.3	310.1	305.8	373.8	361.0	293.1	233.6
1066.2	75°	683.9	352.6	254.9	237.9	186.9	225.1	297.3	280.3	208.1	152.9
705.1	77.5°	446.0	250.6	174.2	152.9	106.2	148.7	220.9	195.4	123.2	76.5
463.0	80°	280.3	165.7	101.9	72.2	51.0	80.7	118.9	85.0	46.7	17.0
271.8	82.5°	148.7	85.0	38.2	25.5	21.2	25.5	29.7	21.2	8.5	0.0
140.2	85°	59.5	29.7	12.7	8.5	4.2	0.0	8.5	4.2	0.0	0.0
25.5	87.5°	21.2	4.2	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>
8401.8
7849.6
6571.1
4897.5
3304.7
2676.0
2608.0
2569.8
2510.3
2450.9
2412.6
2382.9
2353.2
2323.4
2302.2
2276.7
2196.0
2017.6
1784.0
1541.9
1325.3
1134.1
977.0
828.3
692.4
543.7
416.3
352.6
288.8
220.9
140.2
68.0
12.7
0.0
0.0
0.0
0.0

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