

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: P957491

Luminaire Tested: **GALN-SB9D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957491
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-SB9D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 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: 62083 lumens
Efficiency: N/A
Efficacy: 94.4 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

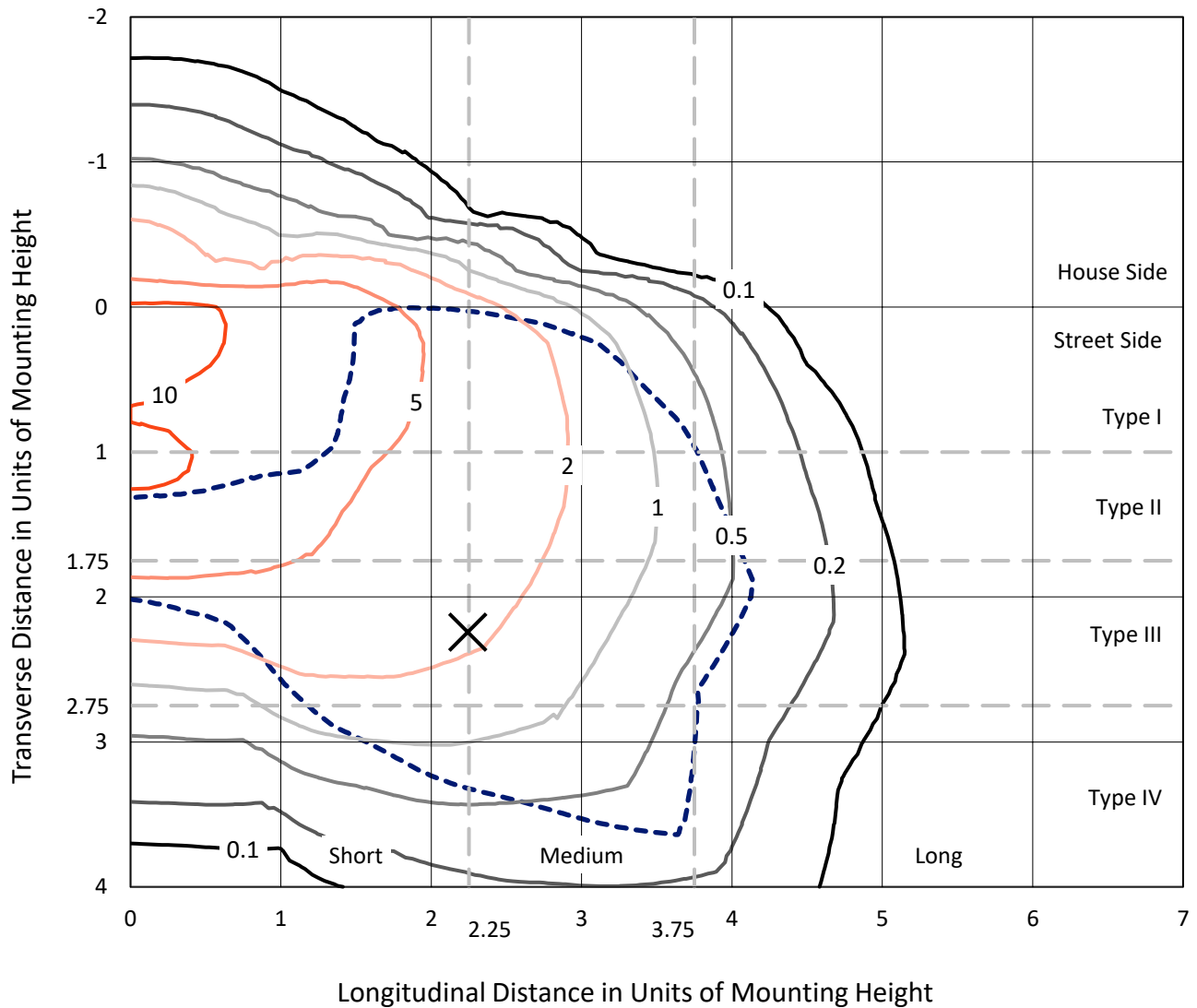
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

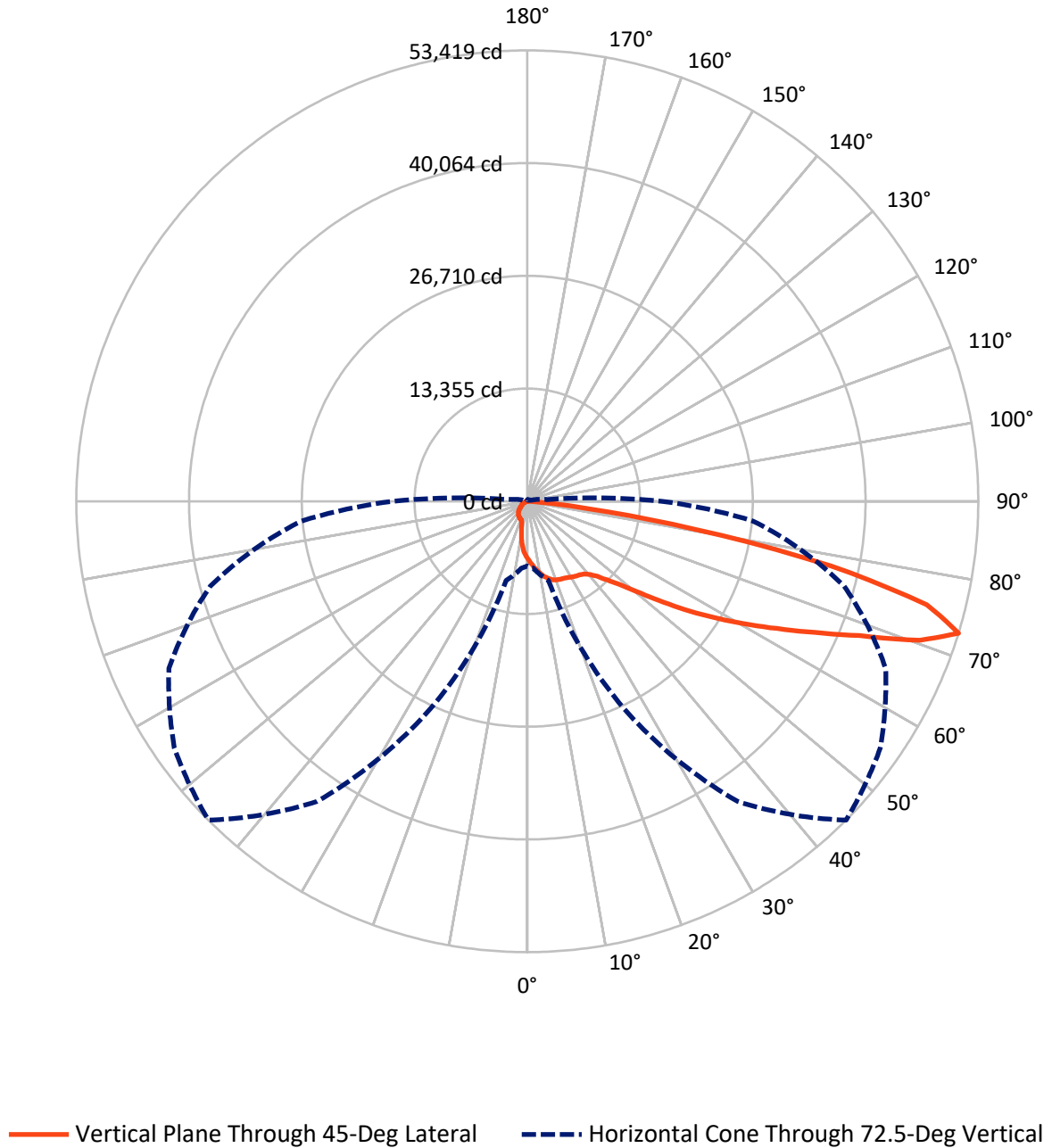
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	6523.2	0.0	6523.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	55559.8	0.0	55559.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	62083.0	0.0	62083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.8	1.0
10°-20°	1872.8	3.0
20°-30°	3075.5	5.0
30°-40°	4361.8	7.0
40°-50°	7209.6	11.6
50°-60°	12951.2	20.9
60°-70°	17983.5	29.0
70°-80°	13044.7	21.0
80°-90°	943.1	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°	62083.0	100.0
0°-180°	62083.0	100.0

Coefficient of Utilization



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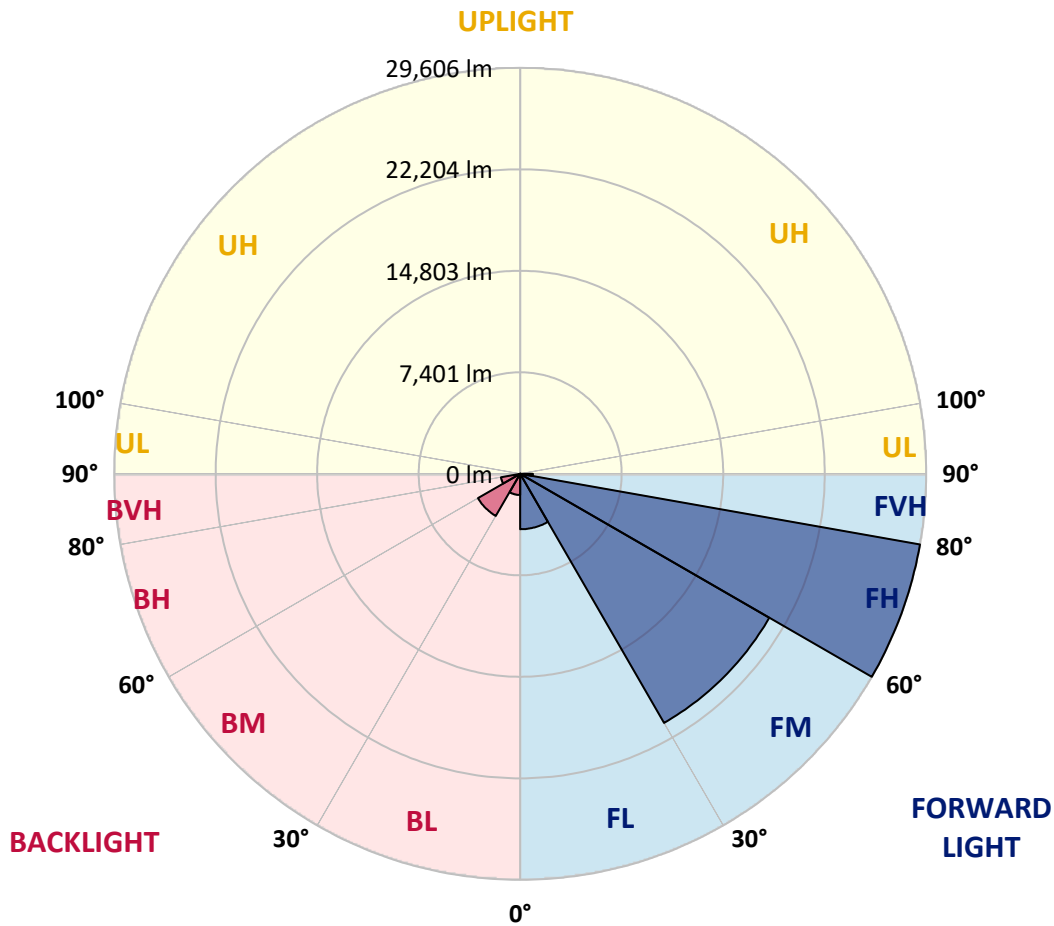
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4044.1	6.5			
FM (30°-60°)	20974.9	33.8			
FH (60°-80°)	29605.6	47.7			G5
FVH (80°-90°)	935.2	1.5			G5
BL (0°-30°)	1545.1	2.5	B3/2500		
BM (30°-60°)	3547.7	5.7	B3/5000		
BH (60°-80°)	1422.5	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.9	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°	35°	45°	46°	55°	65°	75°
0°	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3
2.5°	7428.5	7441.2	7432.7	7381.9	7297.1	7250.5	7225.1	7140.3	7085.2	6987.8
5°	8110.7	8161.6	8131.9	8030.2	7869.2	7754.8	7720.9	7547.1	7390.3	7208.1
7.5°	8835.4	8860.8	8805.7	8674.3	8458.2	8263.3	8233.6	7992.1	7742.1	7462.4
10°	9462.5	9492.2	9407.4	9216.7	8971.0	8729.4	8687.1	8420.1	8123.5	7780.2
12.5°	9988.0	10017.7	9907.5	9678.6	9407.4	9157.4	9115.0	8835.4	8509.1	8127.7
15°	10386.3	10441.4	10293.1	10047.3	9754.9	9504.9	9483.7	9208.3	8890.5	8466.7
17.5°	10619.4	10674.5	10534.6	10238.0	9988.0	9776.1	9750.7	9521.9	9225.2	8818.4
20°	10657.5	10708.4	10560.1	10301.6	10093.9	9924.4	9911.7	9746.4	9530.3	9140.5
22.5°	10543.1	10606.7	10471.1	10263.4	10119.4	10030.4	10013.4	9920.2	9797.3	9466.8
25°	10424.5	10475.3	10373.6	10191.4	10115.1	10106.6	10119.4	10102.4	10077.0	9797.3
27.5°	10416.0	10471.1	10356.7	10182.9	10140.5	10229.5	10242.2	10322.8	10343.9	10098.2
30°	10488.0	10526.2	10416.0	10233.8	10212.6	10416.0	10420.2	10564.3	10598.2	10352.4
32.5°	10644.8	10687.2	10577.0	10310.0	10280.4	10564.3	10577.0	10767.7	10822.8	10623.6
35°	11013.5	11064.3	10937.2	10521.9	10416.0	10704.1	10742.3	10966.9	11077.0	10911.8
37.5°	11933.0	11784.7	11611.0	10949.9	10725.3	10924.5	10988.1	11250.8	11445.7	11255.0
40°	14217.1	13751.0	13208.6	11678.8	11267.7	11394.9	11445.7	11708.4	11975.4	11789.0
42.5°	17645.3	17094.4	16221.5	13356.9	12085.6	12149.2	12187.3	12416.1	12793.3	12645.0
45°	20700.6	20501.4	19611.5	16221.5	13615.4	13301.8	13348.4	13467.0	14022.2	13967.1
47.5°	23048.2	22933.8	22247.3	19509.8	16200.3	14712.9	14844.3	14899.4	15700.3	15895.2
50°	24853.4	24811.1	24196.6	22433.8	19577.6	16793.6	16840.2	16721.5	17920.7	18403.8
52.5°	26556.9	26701.0	26247.6	25150.1	23183.8	19518.3	19509.8	18950.5	20569.2	21298.1
55°	28095.2	28146.0	28192.7	27921.5	26811.2	22620.2	22539.7	21624.4	23641.5	24395.8
57.5°	29540.2	29561.4	29976.7	30531.8	30586.9	25951.0	25802.7	24705.1	26997.7	27535.8
60°	30510.6	30608.1	31485.3	33027.7	33701.5	29387.7	29307.1	28188.4	30413.2	30663.2
62.5°	29112.2	29705.5	31917.5	34977.0	36642.4	33197.2	33159.1	32108.2	34006.6	33803.2
65°	23565.2	24569.5	28459.6	36294.9	39528.2	37451.8	37506.9	36388.1	37697.6	37036.5
67.5°	16484.2	17543.6	22145.6	36400.9	42753.0	42447.9	42765.7	41011.4	41617.3	40134.2
70°	11399.1	11945.8	14941.7	34121.0	45265.9	49329.7	49321.3	46689.7	45515.9	41545.3
72.5°	7665.8	7949.7	9704.1	27069.7	43418.3	53419.0	53173.2	51029.0	46829.6	38854.4
75°	3233.3	3440.9	4491.8	15212.9	34349.9	48872.1	48206.8	45096.4	41608.9	30595.4
77.5°	1025.5	1114.5	1771.3	5445.3	18920.8	36735.6	36032.2	28163.0	27887.6	15348.5
80°	487.3	567.8	995.8	2186.6	7445.4	19980.2	19882.8	12776.3	11996.6	4144.4
82.5°	211.9	250.0	550.9	1169.6	3330.7	7127.6	7271.7	4347.8	3597.7	1572.1
85°	67.8	89.0	254.3	538.2	1406.9	1771.3	1750.1	1034.0	1449.3	856.0
87.5°	0.0	0.0	84.8	122.9	144.1	101.7	114.4	89.0	402.6	237.3
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°
6801.3	0°	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3	6801.3
6886.1	2.5°	6835.2	6767.4	6648.8	6538.6	6441.1	6343.7	6284.3	6199.6	6191.1	6191.1
6996.3	5°	6881.8	6771.7	6559.8	6335.2	6076.7	5830.9	5585.1	5347.8	5271.6	5216.5
7174.2	7.5°	7017.4	6843.7	6508.9	6080.9	5589.4	5051.2	4674.1	4267.2	4110.5	4025.7
7411.5	10°	7212.4	6975.1	6466.6	5716.5	4919.8	4186.7	3648.6	3207.9	3038.3	2966.3
7670.0	12.5°	7428.5	7136.1	6390.3	5263.1	4186.7	3309.6	2784.1	2580.7	2555.3	2555.3
7979.4	15°	7687.0	7331.0	6258.9	4729.1	3419.7	2618.8	2432.4	2440.8	2466.3	2483.2
8280.2	17.5°	7953.9	7538.7	6051.3	4131.6	2741.7	2356.1	2360.3	2373.0	2394.2	2411.2
8606.5	20°	8242.1	7746.3	5775.8	3496.0	2351.9	2279.8	2292.5	2305.2	2322.2	2330.7
8911.6	22.5°	8551.4	7941.2	5449.5	2873.1	2220.5	2216.3	2220.5	2233.2	2254.4	2254.4
9267.6	25°	8882.0	8157.4	5076.6	2419.7	2152.7	2152.7	2161.2	2169.6	2186.6	2186.6
9610.8	27.5°	9221.0	8356.5	4682.5	2182.4	2093.4	2089.1	2089.1	2101.8	2110.3	2114.6
9949.9	30°	9593.9	8589.6	4288.4	2131.5	2046.8	2025.6	2012.9	2021.3	2029.8	2034.0
10305.8	32.5°	9975.3	8814.2	3936.7	2152.7	2000.1	1962.0	1919.6	1911.2	1911.2	1928.1
10674.5	35°	10399.0	9060.0	3665.5	2224.7	1974.7	1868.8	1801.0	1762.8	1767.1	1792.5
11115.2	37.5°	10907.5	9356.6	3466.3	2288.3	1957.8	1762.8	1652.7	1606.0	1576.4	1606.0
11721.2	40°	11572.8	9793.1	3322.3	2339.1	1936.6	1639.9	1491.6	1415.4	1360.3	1377.2
12661.9	42.5°	12551.7	10479.5	3267.2	2343.4	1890.0	1495.9	1326.4	1224.7	1144.1	1148.4
14077.3	45°	13924.7	11564.4	3551.1	2288.3	1788.3	1339.1	1152.6	1017.0	966.2	953.5
16191.8	47.5°	15806.2	13145.0	4207.9	2173.9	1639.9	1186.5	983.1	868.7	830.6	809.4
18967.4	50°	18327.6	15174.8	4936.8	2046.8	1491.6	1042.4	843.3	771.2	745.8	724.6
22260.0	52.5°	21251.5	17234.3	5534.3	1919.6	1343.3	915.3	754.3	711.9	690.7	673.8
25438.2	55°	23933.9	18653.9	5500.4	1784.0	1199.2	813.6	690.7	665.3	639.9	622.9
28175.7	57.5°	25603.5	18853.0	4534.2	1635.7	1034.0	733.1	631.4	614.4	584.8	563.6
30544.5	60°	26370.5	17717.3	3178.2	1440.8	868.7	656.8	567.8	559.4	521.2	491.6
32786.2	62.5°	26510.3	15607.0	2118.8	1199.2	724.6	584.8	504.3	491.6	440.7	389.9
34608.4	65°	25942.5	12589.9	1466.2	936.5	618.7	508.5	432.2	406.8	351.7	300.9
35040.6	67.5°	24145.8	8839.6	1021.3	673.8	525.5	402.6	343.2	334.8	292.4	250.0
32837.0	70°	20853.2	5038.5	682.3	504.3	415.3	275.4	271.2	279.7	237.3	203.4
26828.2	72.5°	15988.4	2305.2	423.8	368.7	283.9	186.5	216.1	220.4	182.2	152.6
16738.5	75°	9411.7	987.4	267.0	237.3	144.1	122.9	156.8	161.0	122.9	97.5
6119.1	77.5°	3203.6	372.9	169.5	139.8	72.0	67.8	101.7	101.7	67.8	38.1
1228.9	80°	728.9	139.8	84.8	55.1	33.9	29.7	33.9	29.7	17.0	4.2
377.1	82.5°	207.6	55.1	33.9	21.2	12.7	12.7	4.2	0.0	0.0	0.0
131.4	85°	59.3	25.4	8.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
46.6	87.5°	25.4	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>
6801.3
6212.3
5241.9
4038.4
2966.3
2555.3
2483.2
2411.2
2334.9
2262.9
2190.8
2118.8
2042.5
1940.8
1805.2
1597.6
1368.7
1131.4
936.5
796.7
720.4
669.5
614.4
559.4
483.1
364.4
283.9
237.3
186.5
135.6
84.8
29.7
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