

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: P957569

Luminaire Tested: **GALN-SB9D-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957569
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-SB9D-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 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: 75064 lumens
Efficiency: N/A
Efficacy: 114.1 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

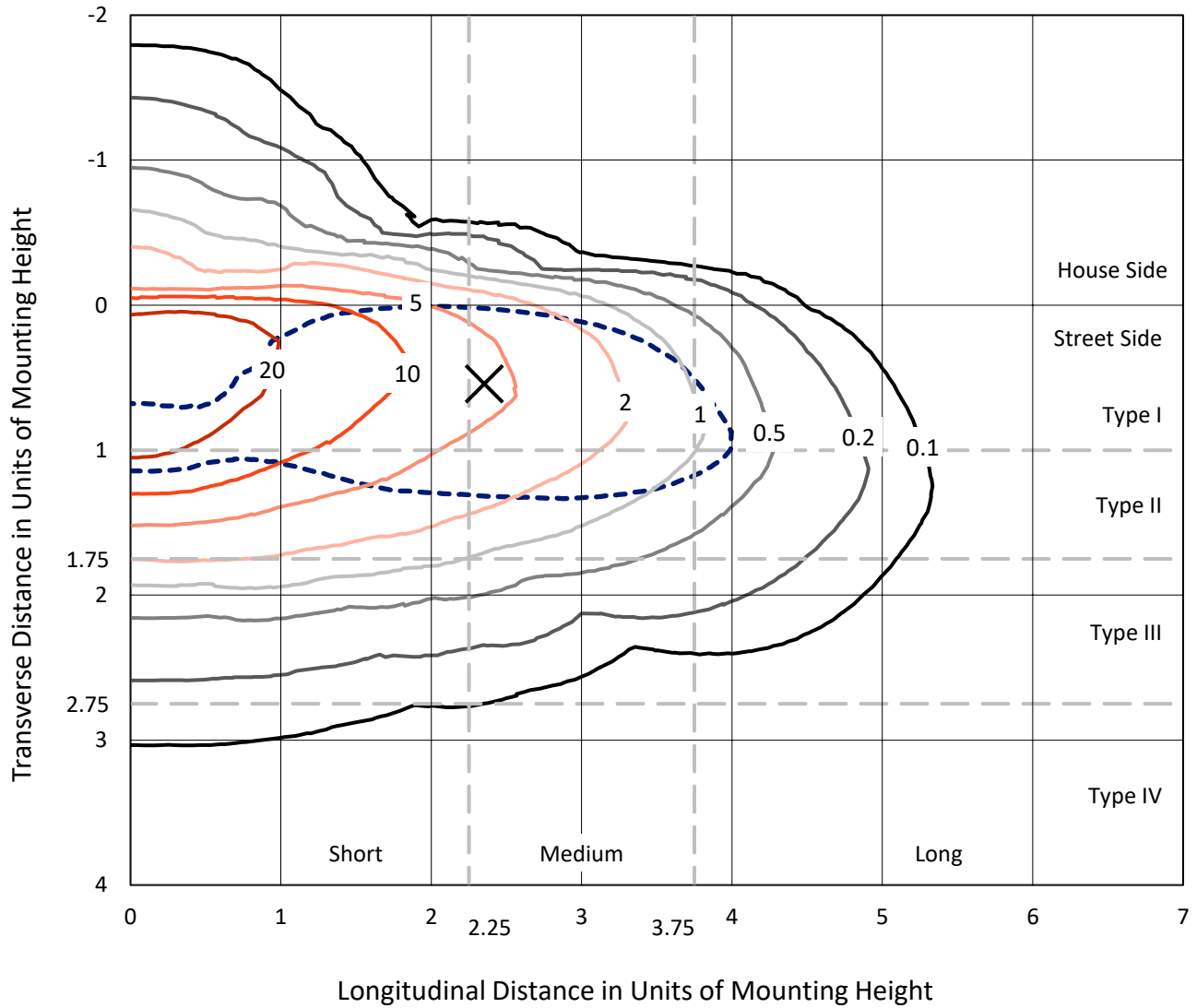
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

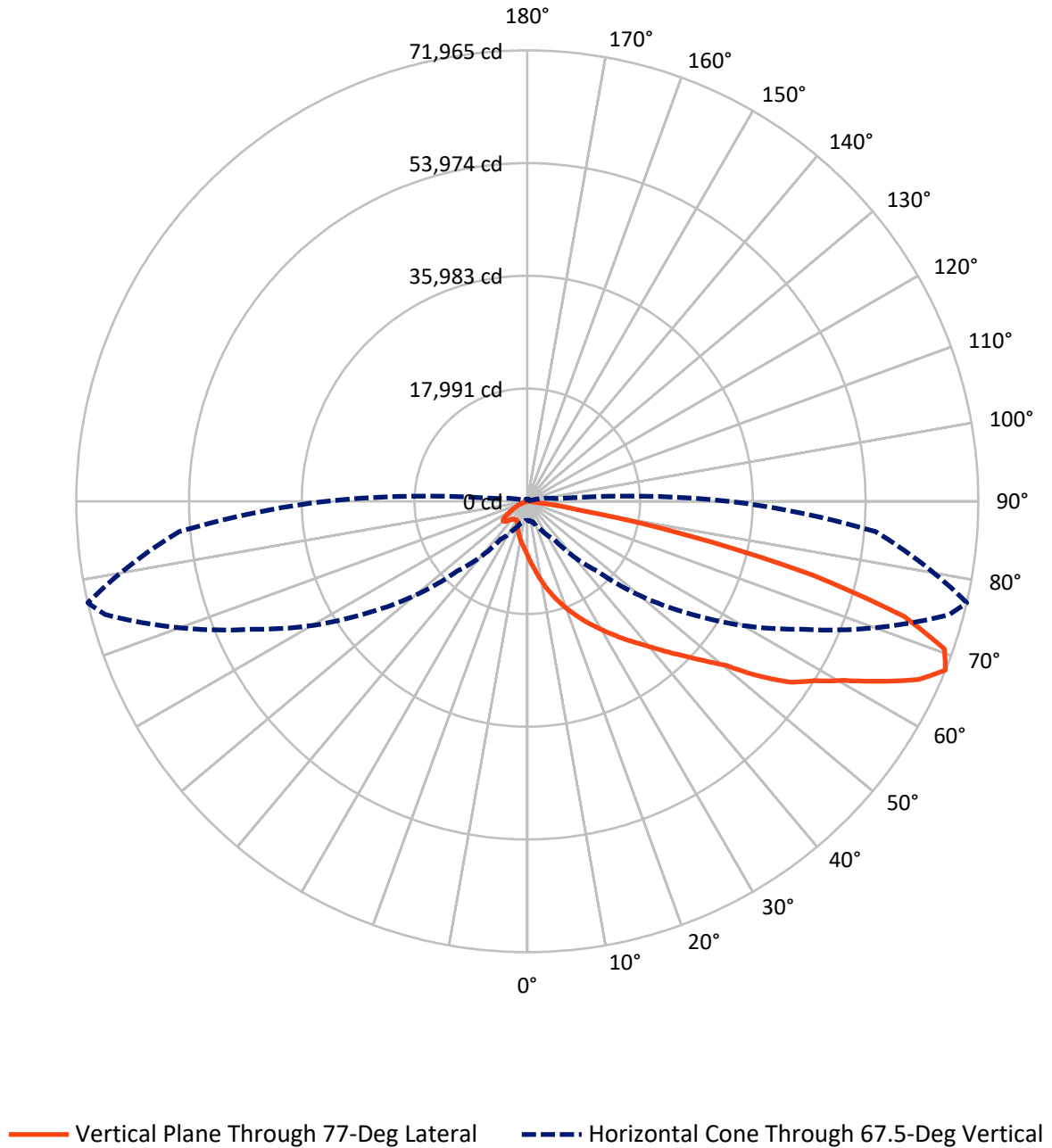
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5522.5	0.0	5522.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	69541.5	0.0	69541.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	75064.0	0.0	75064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.5	1.2
10°-20°	3093.9	4.1
20°-30°	5970.3	8.0
30°-40°	10364.8	13.8
40°-50°	15049.1	20.0
50°-60°	17282.0	23.0
60°-70°	15004.0	20.0
70°-80°	7067.0	9.4
80°-90°	349.5	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°	75064.0	100.0
0°-180°	75064.0	100.0

Coefficient of Utilization



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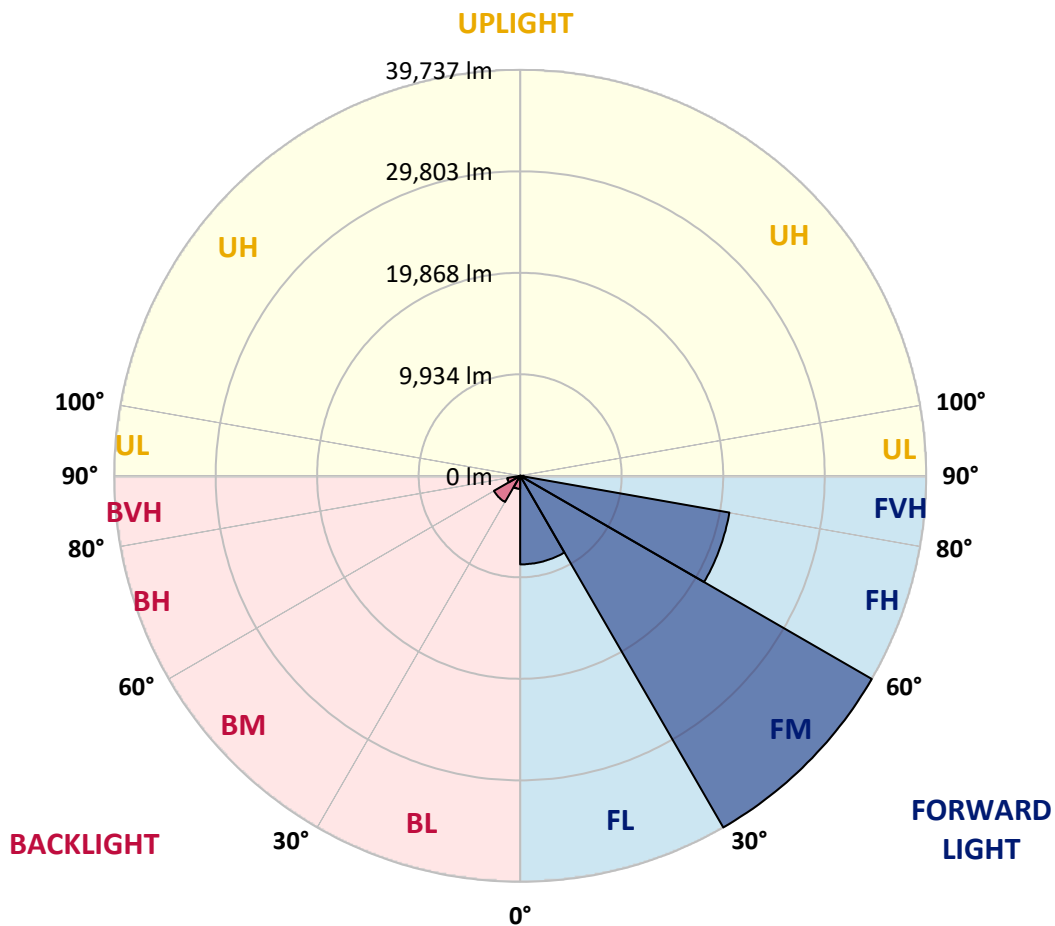
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8669.1	11.5			
FM (30°-60°)	39736.9	52.9			
FH (60°-80°)	20792.5	27.7			G5
FVH (80°-90°)	343.1	0.5			G3/500
BL (0°-30°)	1278.5	1.7	B3/2500		
BM (30°-60°)	2959.0	3.9	B3/5000		
BH (60°-80°)	1278.5	1.7	B3/2500		G3/2500
BVH (80°-90°)	6.4	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°	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0
2.5°	11984.1	12058.7	11951.5	11746.4	11438.8	11238.3	10748.9	10287.4	9774.7	9611.5
5°	14608.4	14673.7	14552.5	14328.8	13918.6	13527.0	12883.8	11918.9	10916.7	10595.1
7.5°	16552.2	16589.5	16542.9	16337.8	15946.2	15503.4	14785.6	13643.5	12156.6	11802.3
10°	17950.6	18071.8	18057.8	17978.5	17717.5	17358.6	16594.1	15293.6	13545.7	13088.9
12.5°	18878.2	19013.3	19092.6	19269.7	19255.7	19027.3	18356.1	16981.0	14930.1	14394.0
15°	19148.5	19293.0	19596.0	20006.2	20369.8	20486.3	20015.5	18635.8	16454.3	15769.1
17.5°	18994.7	19218.4	19582.0	20229.9	21027.0	21553.7	21502.4	20234.6	17838.7	17055.6
20°	19335.0	19549.4	19833.7	20379.1	21306.7	22262.2	22644.5	21763.5	19213.8	18393.4
22.5°	21218.1	21180.8	21208.8	21297.4	21852.0	22798.3	23586.0	23152.5	20574.9	19735.8
25°	24201.3	24033.5	23749.2	23269.1	23129.2	23586.0	24406.4	24383.1	22010.5	21110.9
27.5°	27622.7	27594.7	26928.2	25772.2	25119.6	24942.5	25334.0	25581.1	23432.2	22472.0
30°	30899.6	30974.2	30074.5	28788.0	27590.1	26895.5	26541.3	26718.4	24877.2	23940.3
32.5°	33752.3	33831.5	32852.6	31347.1	29864.8	29025.7	28279.9	27841.8	26452.7	25431.9
35°	36162.2	36241.4	35118.0	33454.0	31873.8	31114.0	30270.3	29072.4	28037.6	27086.7
37.5°	38315.7	38292.4	36786.8	35108.7	33556.5	32955.2	32512.4	30587.3	29669.0	28750.7
40°	39588.2	39686.1	38399.6	36549.0	35043.4	34605.3	34577.3	32465.8	31552.2	30661.8
42.5°	39961.1	40133.6	39201.3	37681.7	36316.0	35840.5	36572.3	34498.1	33742.9	32876.0
45°	39289.9	39457.7	39033.5	37980.0	37183.0	36875.3	38287.7	36605.0	36082.9	35225.2
47.5°	37332.1	37541.9	37644.4	37420.7	37411.4	37723.7	39825.9	38823.7	38861.0	37984.7
50°	33542.5	33896.8	34838.3	35630.8	36856.7	38394.9	41322.2	41229.0	41993.4	41238.3
52.5°	26653.2	27156.6	30400.8	32568.3	35323.1	38269.0	42967.6	45088.5	47489.0	46384.3
55°	21418.5	21418.5	24056.8	28112.1	32330.6	37439.3	43685.4	47596.3	51232.0	50971.0
57.5°	17461.1	17670.9	19353.6	22938.1	28000.3	35463.0	44128.3	49171.8	54247.9	54056.8
60°	10776.9	11229.0	14408.0	17945.9	23073.3	31943.7	43848.6	50765.9	57907.0	58060.8
62.5°	6069.0	6236.8	7653.8	12911.7	17941.2	27212.5	41709.1	51656.2	62586.9	63239.5
65°	4190.5	4274.4	4819.8	8036.0	12436.3	21665.6	37527.9	51101.5	67276.1	68595.3
67.5°	3043.8	3085.8	3426.0	4908.3	7378.8	15708.5	30974.2	48304.8	69760.6	71965.4
70°	2340.0	2367.9	2615.0	3225.6	4358.3	9695.4	22495.3	42743.9	67961.3	70595.0
72.5°	1901.8	1929.8	2120.9	2386.6	2890.0	5733.4	13634.2	34712.5	60018.5	62861.9
75°	1603.5	1640.8	1813.2	1985.7	2265.4	3682.4	6395.3	24173.4	45135.1	46999.6
77.5°	890.3	820.4	1473.0	1645.4	1911.1	2330.6	2992.5	14226.2	25278.1	25795.5
80°	554.7	573.3	1170.0	1323.8	1468.3	1174.6	1370.4	5477.0	8763.2	8325.0
82.5°	32.6	74.6	899.6	955.6	1006.8	503.4	517.4	1859.8	2111.6	1939.1
85°	0.0	0.0	410.2	331.0	349.6	144.5	149.2	433.5	284.3	307.6
87.5°	0.0	0.0	0.0	9.3	0.0	14.0	28.0	37.3	14.0	18.6
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°
8656.0	0°	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0	8656.0
9098.8	2.5°	8772.5	8446.2	7784.3	7136.4	6609.7	6120.3	5770.7	5439.7	5271.9	5262.6
9686.1	5°	9038.2	8353.0	7029.2	5859.2	4917.6	4162.5	3673.1	3323.5	3146.4	3085.8
10408.6	7.5°	9411.1	8381.0	6367.3	4740.5	3631.1	2983.2	2703.5	2591.7	2554.4	2512.4
11224.3	10°	9881.9	8446.2	5775.3	3817.6	2862.0	2535.7	2423.9	2377.2	2349.3	2321.3
12142.6	12.5°	10408.6	8506.8	5188.0	3169.7	2517.1	2349.3	2270.0	2214.1	2176.8	2144.2
13084.2	15°	10921.4	8544.1	4577.4	2717.5	2340.0	2204.8	2120.9	2060.3	2009.0	1971.7
14007.1	17.5°	11429.4	8595.4	4004.0	2447.2	2195.5	2060.3	1976.4	1901.8	1859.8	1817.9
14976.7	20°	11993.5	8586.1	3463.3	2256.1	2051.0	1915.8	1827.2	1757.3	1715.3	1668.7
16002.1	22.5°	12515.5	8539.5	2987.9	2092.9	1901.8	1771.3	1673.4	1603.5	1561.5	1524.2
17050.9	25°	13116.8	8502.2	2591.7	1943.8	1762.0	1631.4	1524.2	1459.0	1412.4	1379.7
18104.4	27.5°	13694.8	8446.2	2302.7	1808.6	1626.8	1500.9	1398.4	1323.8	1281.8	1258.5
19190.5	30°	14263.5	8432.2	2195.5	1678.1	1505.6	1379.7	1277.2	1207.3	1174.6	1165.3
20383.7	32.5°	14948.7	8469.5	2242.1	1631.4	1393.7	1267.9	1170.0	1118.7	1086.1	1086.1
21712.2	35°	15680.5	8460.2	2312.0	1673.4	1319.1	1156.0	1081.4	1048.8	1016.2	1016.2
23185.2	37.5°	16598.8	8474.2	2367.9	1743.3	1291.2	1062.8	1020.8	978.9	960.2	960.2
24798.0	40°	17969.2	8935.7	2340.0	1803.9	1281.8	997.5	913.6	899.6	885.6	885.6
26620.5	42.5°	19647.3	9937.8	2377.2	1808.6	1277.2	950.9	839.0	867.0	834.4	829.7
28676.1	45°	21483.8	11033.2	2615.0	1710.7	1272.5	927.6	801.7	834.4	783.1	783.1
31058.1	47.5°	23306.4	12119.3	2857.4	1570.8	1258.5	922.9	769.1	750.5	736.5	741.1
34162.5	50°	25818.8	13004.9	2950.6	1379.7	1225.9	913.6	708.5	713.2	703.9	713.2
38539.4	52.5°	28555.0	13191.4	2838.7	1165.3	1132.7	885.6	666.6	685.2	680.5	689.9
41620.5	55°	30261.0	12991.0	2344.6	969.5	988.2	773.8	624.6	661.9	661.9	661.9
44631.7	57.5°	32022.9	12138.0	1664.1	787.8	820.4	633.9	587.3	638.6	633.9	629.3
48258.2	60°	33290.8	10758.2	1095.4	647.9	652.6	522.1	545.4	601.3	596.6	573.3
51996.5	62.5°	34237.0	9234.0	703.9	550.0	498.8	470.8	498.8	545.4	526.7	475.4
55166.2	65°	34129.8	7122.4	540.7	470.8	410.2	410.2	433.5	475.4	419.5	335.6
55772.1	67.5°	32139.5	4819.8	447.5	396.2	344.9	340.3	358.9	396.2	358.9	284.3
52667.7	70°	28582.9	3151.0	358.9	307.6	275.0	251.7	289.0	340.3	303.0	228.4
44836.8	72.5°	23199.2	1920.4	270.4	223.7	200.4	163.1	228.4	279.7	242.4	167.8
31179.3	75°	15009.3	978.9	186.5	144.5	107.2	97.9	167.8	209.8	167.8	102.5
13834.7	77.5°	5742.7	410.2	102.5	65.3	55.9	46.6	93.2	125.9	69.9	23.3
2680.2	80°	1104.7	172.5	51.3	32.6	28.0	18.6	14.0	9.3	0.0	0.0
475.4	82.5°	191.1	55.9	18.6	9.3	0.0	0.0	0.0	0.0	0.0	0.0
93.2	85°	65.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.6	87.5°	23.3	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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<u>180°</u>
8656.0
5253.3
3076.4
2503.1
2312.0
2134.9
1967.1
1813.2
1664.1
1519.6
1375.1
1258.5
1160.7
1086.1
1016.2
960.2
885.6
825.0
783.1
741.1
713.2
689.9
661.9
629.3
573.3
466.1
326.3
275.0
219.1
158.5
88.6
18.6
0.0
0.0
0.0
0.0
0.0

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