

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: P957447

Luminaire Tested: **GALN-SB9D-750-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

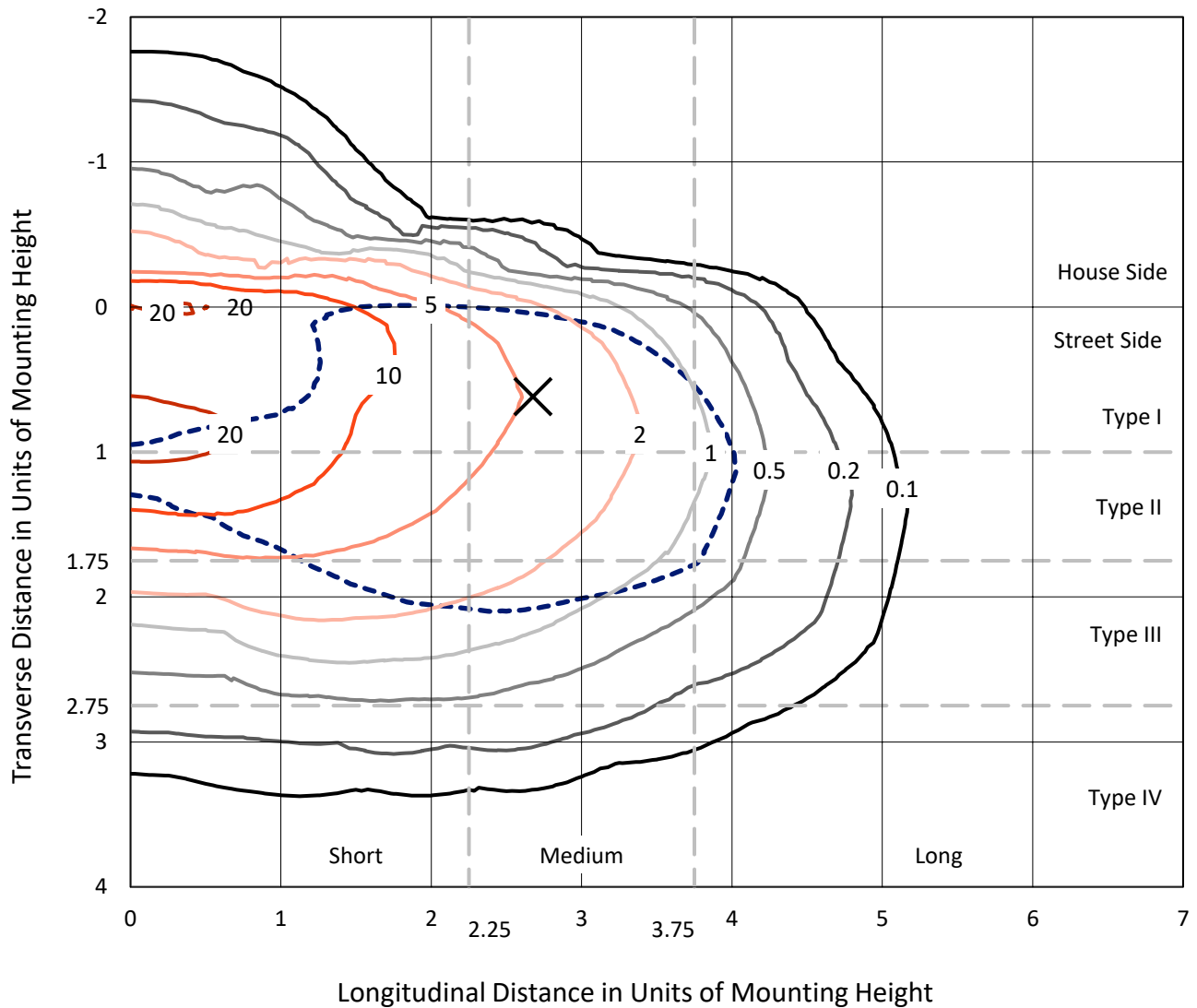
Lumens per Lamp: N/A  
Luminaire Lumens: 81639 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): 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

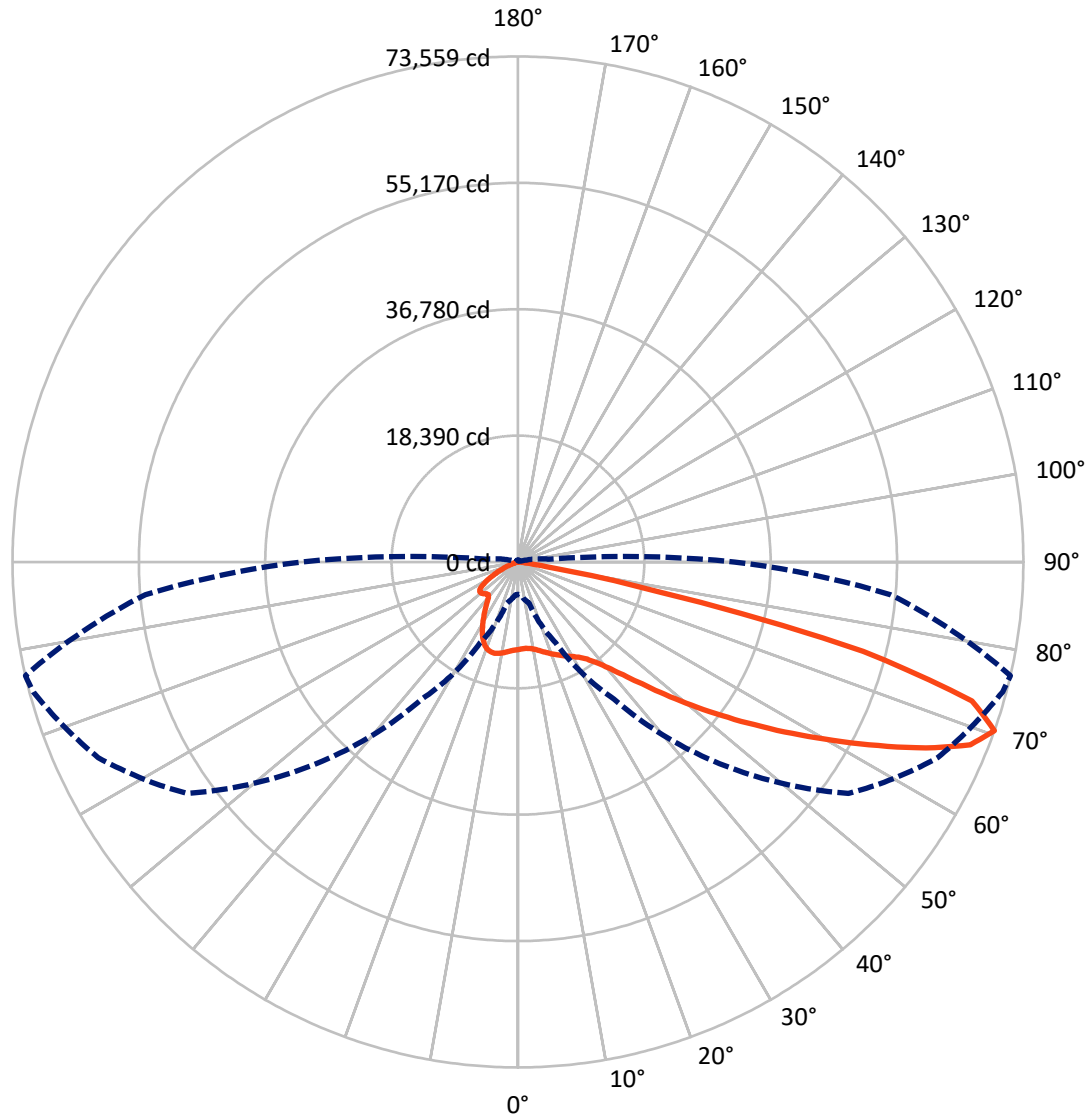
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8605.9	0.0	8605.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	73033.1	0.0	73033.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	81639.0	0.0	81639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1097.5	1.3
10°-20°	2605.3	3.2
20°-30°	4029.7	4.9
30°-40°	7312.1	9.0
40°-50°	13802.5	16.9
50°-60°	19943.4	24.4
60°-70°	21229.2	26.0
70°-80°	11250.0	13.8
80°-90°	369.4	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°	81639.0	100.0
0°-180°	81639.0	100.0

**Coefficient of Utilization**



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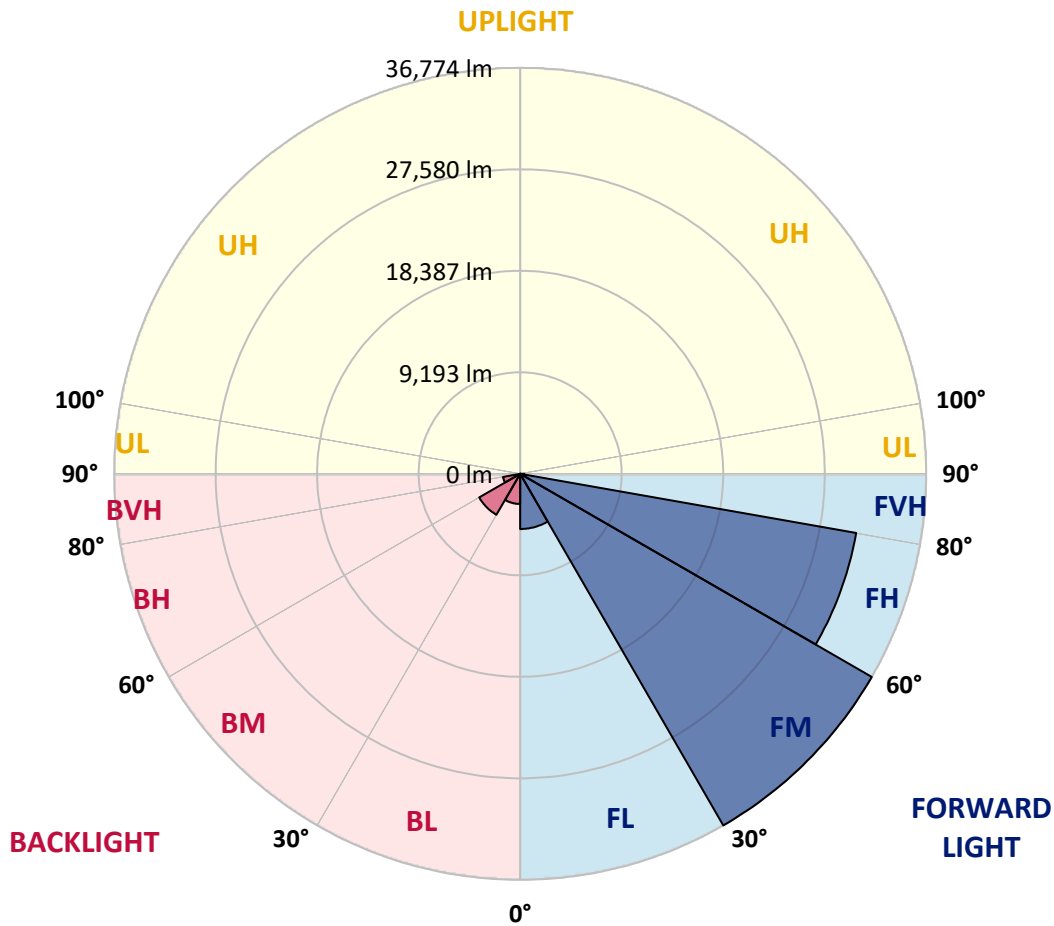
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4998.2	6.1			
FM (30°-60°)	36773.9	45.0			
FH (60°-80°)	30901.5	37.9			G5
FVH (80°-90°)	359.5	0.4			G3/500
BL (0°-30°)	2734.2	3.3	B4/5000		
BM (30°-60°)	4284.1	5.2	B3/5000		
BH (60°-80°)	1577.7	1.9	B3/2500		G3/2500
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2
2.5°	11955.7	12064.0	12048.5	12120.7	12146.5	12249.6	12352.7	12491.9	12646.6	12641.4
5°	11280.3	11388.6	11414.4	11512.3	11636.1	11795.9	12007.3	12285.7	12574.4	12620.8
7.5°	10481.2	10594.7	10661.7	10857.6	11084.4	11414.4	11759.8	12167.1	12646.6	12713.6
10°	9682.1	9785.2	9872.9	10151.3	10512.2	11001.9	11563.9	12151.6	12796.1	12894.0
12.5°	9187.2	9285.1	9383.1	9625.4	10073.9	10672.0	11435.0	12223.8	13043.5	13182.7
15°	9011.9	9099.5	9176.9	9393.4	9811.0	10491.5	11409.2	12373.3	13358.0	13543.6
17.5°	9037.7	9084.1	9135.6	9300.6	9707.9	10409.1	11455.6	12631.1	13729.2	13894.2
20°	9187.2	9213.0	9218.1	9331.5	9692.4	10398.7	11548.4	12878.6	14079.8	14301.5
22.5°	9377.9	9388.3	9377.9	9455.3	9790.4	10476.1	11672.2	13177.6	14471.6	14677.9
25°	10269.9	10073.9	9826.5	9677.0	9955.4	10625.6	11857.8	13579.7	14899.5	15100.6
27.5°	13038.4	12476.4	11589.7	10594.7	10295.6	10842.1	12115.5	13987.0	15332.6	15513.1
30°	17534.0	16796.8	15291.4	13048.7	11388.6	11295.8	12450.7	14394.3	15791.5	15987.4
32.5°	22040.0	21859.5	20122.1	17018.5	13847.8	12306.3	13007.5	14945.9	16399.8	16554.5
35°	26597.5	26231.4	24808.5	21741.0	17637.1	14363.4	13935.5	15667.7	17198.9	17374.2
37.5°	30087.8	29866.1	28984.5	26458.3	22132.8	17539.2	15523.4	16786.5	18358.9	18554.8
40°	33170.8	33067.7	32768.7	31103.4	27159.4	21694.6	17992.9	18518.7	19967.4	20199.4
42.5°	35593.9	35836.2	36006.4	35542.4	32340.8	26437.7	21313.0	20952.2	22210.1	22447.3
45°	38073.7	38156.2	38841.9	39512.1	37486.0	31397.3	25056.0	23803.2	24999.3	25293.1
47.5°	39666.8	39996.8	41203.2	42383.8	41811.5	36315.7	29077.3	27169.8	28231.8	28783.4
50°	39785.4	40409.2	42069.3	44126.4	44961.6	40996.9	33449.2	31005.5	32134.5	32742.9
52.5°	37810.8	38780.1	41352.7	44363.5	46662.9	44961.6	37970.6	34841.2	36289.9	37083.9
55°	28989.7	30257.9	38656.3	43074.6	46729.9	47967.2	42373.5	38836.8	40919.6	41816.7
57.5°	25257.0	25896.3	30392.0	40837.1	45487.4	49178.8	46353.6	42641.6	45956.6	47070.2
60°	21014.0	21854.4	25489.0	37176.7	43801.6	49297.4	49869.6	47549.6	51416.3	52669.1
62.5°	14280.9	15193.4	18807.4	30886.9	41497.0	49240.7	52751.6	52602.1	57484.4	58830.0
65°	8846.9	9419.2	11801.1	25221.0	38274.8	49302.5	55767.6	58737.2	63887.6	65253.8
67.5°	6990.9	7253.9	8496.3	19364.2	32722.3	47910.5	58778.4	64506.2	69914.4	70997.1
70°	4696.7	4856.5	6181.5	12981.7	24344.5	41486.7	58721.7	67403.7	73018.1	73559.4
72.5°	2474.7	2598.4	3614.0	6011.4	14703.6	29489.7	49498.4	63939.1	69929.9	69115.3
75°	1237.3	1443.6	2433.4	3052.1	6279.5	16446.2	30737.4	50411.0	55040.7	51885.5
77.5°	938.3	1134.2	2010.7	2010.7	2186.0	5537.1	13017.8	27494.6	25360.2	21117.1
80°	598.0	773.3	1758.0	1520.9	912.5	1407.5	3392.4	7702.4	5387.6	4098.7
82.5°	350.6	505.2	1464.2	1005.3	510.4	520.7	958.9	1639.5	1397.2	1087.8
85°	139.2	330.0	1005.3	397.0	201.1	128.9	288.7	350.6	288.7	216.5
87.5°	0.0	77.3	175.3	0.0	15.5	10.3	20.6	25.8	25.8	20.6
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°
12734.2	0°	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2	12734.2
12744.5	2.5°	12790.9	12801.2	12832.2	12837.3	12765.1	12672.3	12636.3	12620.8	12558.9	12553.8
12827.0	5°	12945.6	12992.0	12945.6	12811.5	12491.9	12043.4	11703.1	11424.7	11172.1	11094.7
13110.6	7.5°	13254.9	13301.3	13162.1	12636.3	11832.0	10940.1	10135.8	9568.7	9058.3	8867.5
13456.0	10°	13698.3	13760.2	13321.9	12259.9	10837.0	9403.7	8042.7	7083.7	6336.2	6032.0
13925.1	12.5°	14255.1	14280.9	13409.6	11687.6	9542.9	7496.2	5568.0	4542.0	3877.0	3629.5
14492.3	15°	14868.6	14832.5	13419.9	10909.1	7779.7	5299.9	3634.7	2985.1	2717.0	2634.5
15059.4	17.5°	15513.1	15363.5	13213.7	9785.2	5846.4	3624.4	2696.4	2541.7	2495.3	2474.7
15621.3	20°	16147.2	15812.1	12837.3	8315.9	4196.6	2706.7	2448.9	2402.5	2376.7	2366.4
16188.4	22.5°	16724.6	16152.3	12192.9	6609.4	3046.9	2392.2	2314.8	2273.6	2227.2	2206.6
16740.1	25°	17286.6	16348.3	11285.5	5016.4	2438.6	2237.5	2175.6	2098.3	2036.4	2010.7
17333.0	27.5°	17833.0	16472.0	10151.3	3712.0	2175.6	2093.2	1979.7	1871.5	1825.1	1814.8
17967.1	30°	18415.6	16513.2	8862.4	2768.5	2015.8	1912.7	1747.7	1624.0	1598.2	1603.4
18822.9	32.5°	19127.1	16575.1	7563.2	2268.4	1881.8	1696.2	1500.3	1371.4	1350.8	1371.4
20070.6	35°	19977.8	16698.8	6310.4	2088.0	1763.2	1474.5	1263.1	1154.8	1134.2	1149.7
21668.8	37.5°	21132.6	16899.9	5140.1	2051.9	1665.2	1288.9	1062.0	974.4	974.4	979.6
23627.9	40°	22669.0	17436.1	4093.5	2026.1	1613.7	1149.7	897.1	861.0	876.4	886.8
26123.2	42.5°	24540.4	18575.4	3387.2	1995.2	1557.0	1087.8	814.6	799.1	824.9	835.2
29113.4	45°	26638.7	20019.0	3139.7	1943.6	1505.4	1129.1	778.5	757.9	788.8	794.0
32464.5	47.5°	28809.2	21431.6	3108.8	1886.9	1453.9	1190.9	768.2	721.8	757.9	763.0
36042.5	50°	31005.5	22354.5	3139.7	1799.3	1371.4	1190.9	773.3	685.7	716.6	732.1
39754.4	52.5°	33217.2	22777.2	3119.1	1608.5	1227.0	1118.8	773.3	654.8	685.7	696.0
43765.5	55°	35361.9	22694.7	2804.6	1325.0	1041.4	989.9	752.7	629.0	649.6	654.8
47554.8	57.5°	37058.1	21545.0	2222.0	1031.1	845.5	824.9	685.7	598.0	613.5	608.4
51029.6	60°	37944.9	19018.8	1587.9	794.0	665.1	649.6	603.2	556.8	567.1	541.3
53973.5	62.5°	37955.2	15678.0	1062.0	629.0	531.0	515.6	515.6	500.1	489.8	438.2
56252.2	65°	37145.7	11971.2	706.3	500.1	427.9	402.1	433.1	427.9	391.8	319.6
56948.2	67.5°	35310.4	7846.7	536.2	391.8	330.0	314.5	345.4	360.9	335.1	268.1
54411.7	70°	31536.5	4567.8	443.4	304.2	247.5	232.0	278.4	309.3	278.4	216.5
46508.2	72.5°	26195.4	2464.4	360.9	226.8	170.1	154.7	221.7	252.6	221.7	159.8
29840.3	75°	16997.8	1319.8	278.4	149.5	87.6	98.0	165.0	185.6	154.7	103.1
8759.3	77.5°	5707.2	582.6	175.3	72.2	41.2	41.2	98.0	113.4	72.2	36.1
1593.1	80°	1273.4	242.3	72.2	30.9	15.5	15.5	20.6	20.6	10.3	0.0
489.8	82.5°	417.6	98.0	30.9	10.3	0.0	0.0	0.0	0.0	0.0	0.0
123.7	85°	159.8	36.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41.2	87.5°	61.9	5.2	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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180°
12734.2
12564.1
11048.3
8790.2
5903.1
3552.2
2634.5
2469.5
2356.1
2201.4
2000.4
1804.4
1603.4
1366.2
1144.5
974.4
886.8
835.2
799.1
768.2
737.2
696.0
654.8
608.4
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