

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: P957510

Luminaire Tested: **GALN-SB9D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957510
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 69337 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

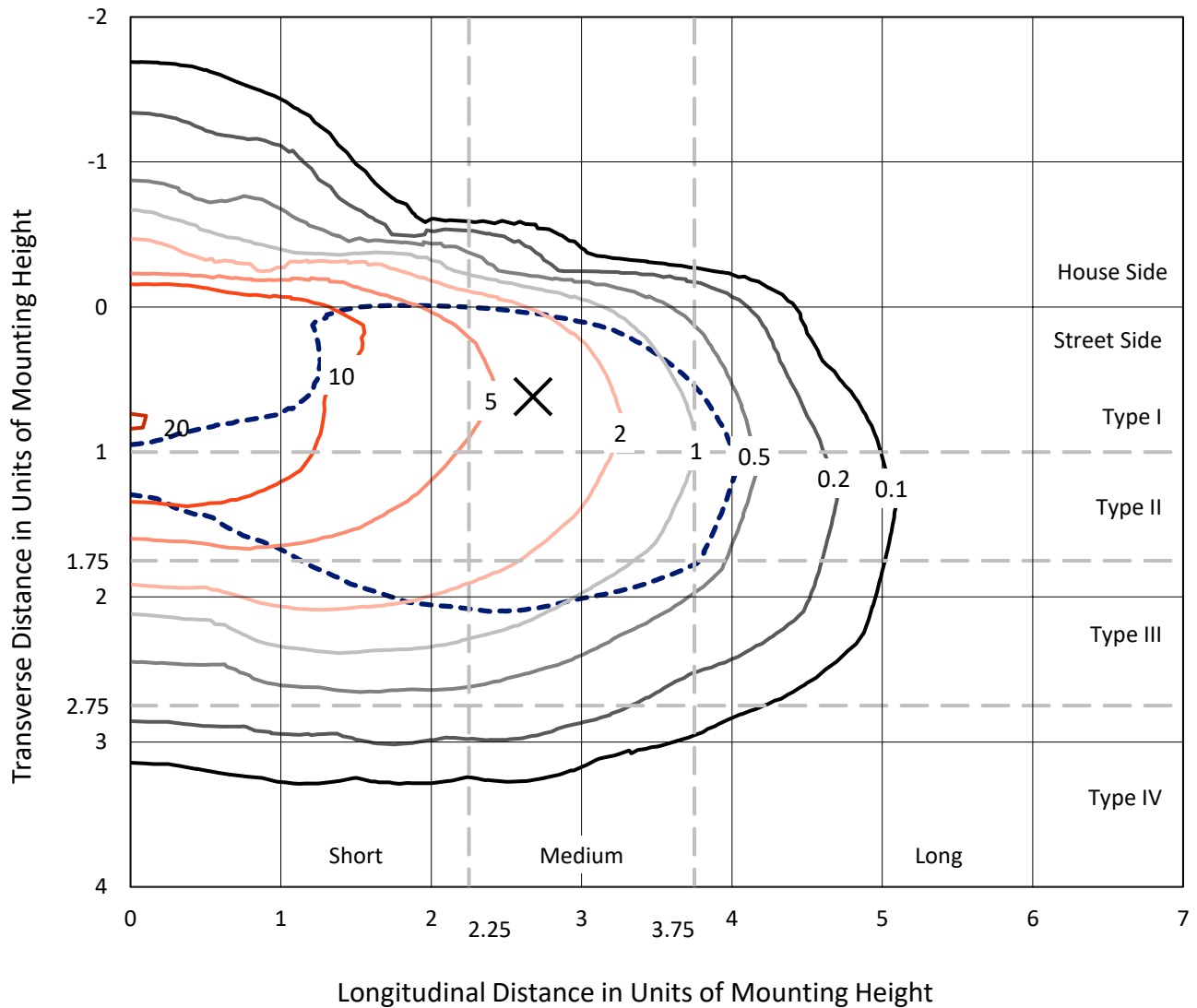
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957510
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Iso-Footcandle Lines of Horizontal Illumination

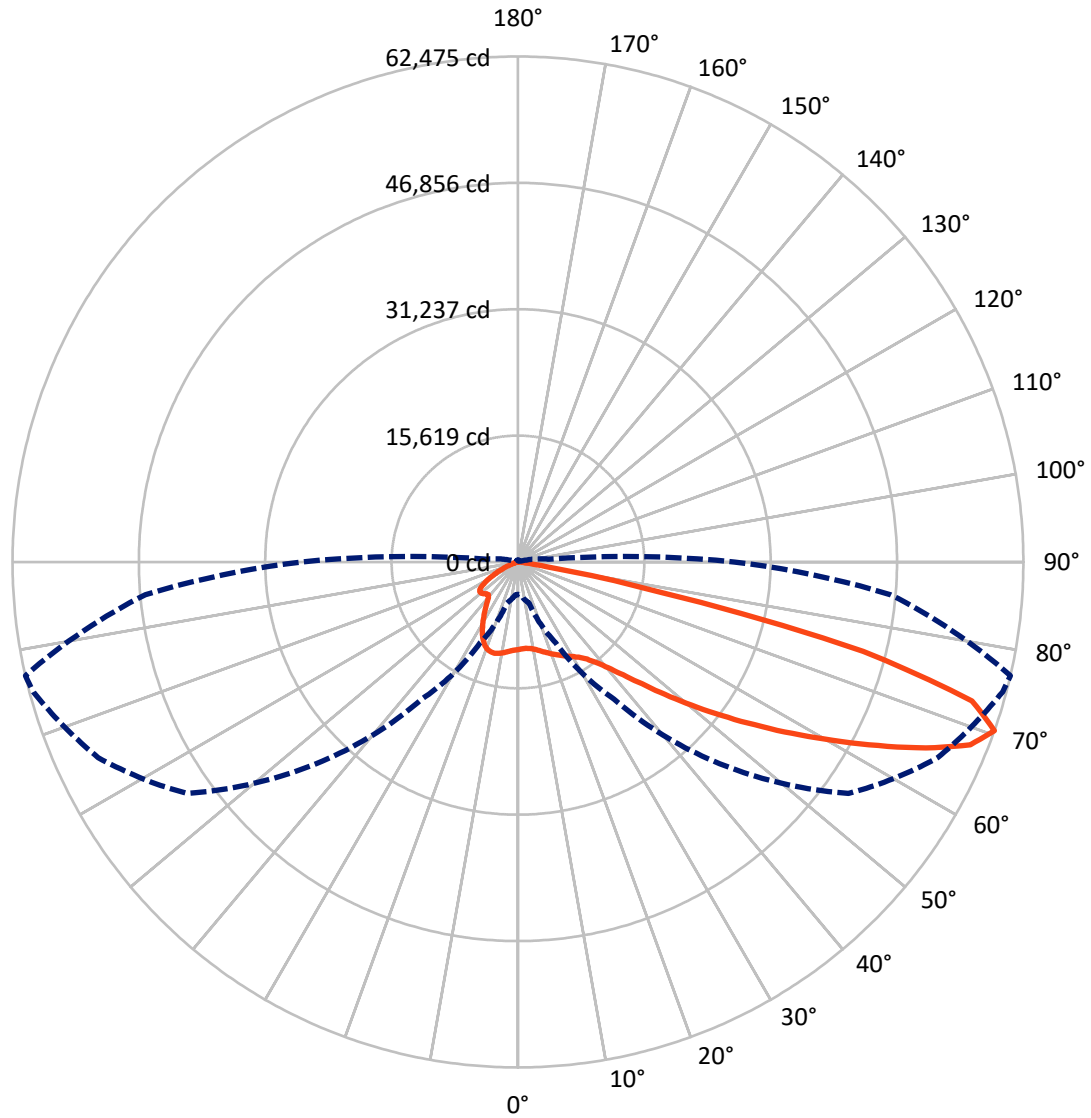
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P957510
CATALOG NUMBER: GALN-SB9D-830-U-T3R-HSS

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
House Side	Lumens	7309.1	0.0	7309.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	62027.9	0.0	62027.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	69337.0	0.0	69337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.1	1.3
10°-20°	2212.7	3.2
20°-30°	3422.5	4.9
30°-40°	6210.2	9.0
40°-50°	11722.6	16.9
50°-60°	16938.2	24.4
60°-70°	18030.2	26.0
70°-80°	9554.8	13.8
80°-90°	313.7	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°	69337.0	100.0
0°-180°	69337.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957510

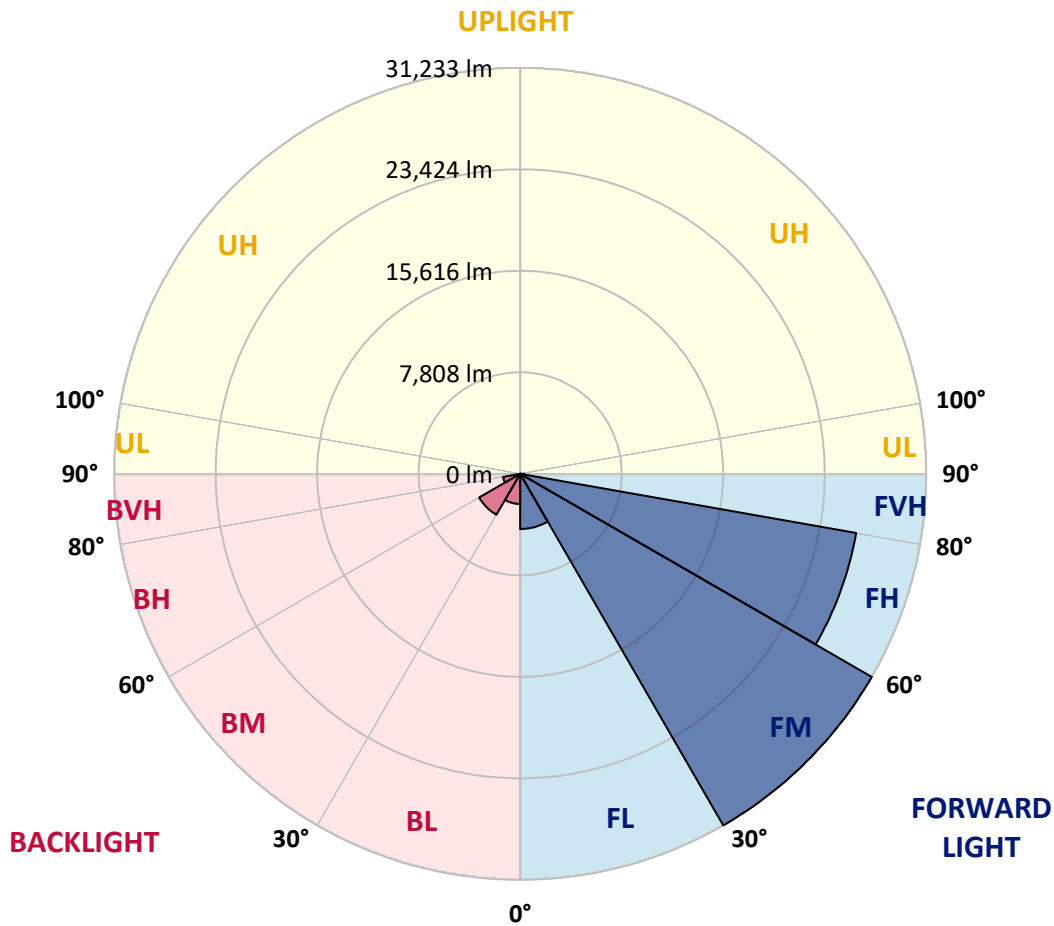
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4245.1	6.1			
FM (30°-60°)	31232.5	45.0			
FH (60°-80°)	26245.0	37.9			G5
FVH (80°-90°)	305.3	0.4			G3/500
BL (0°-30°)	2322.2	3.3	B3/2500		
BM (30°-60°)	3638.5	5.2	B3/5000		
BH (60°-80°)	1339.9	1.9	B3/2500		G3/2500
BVH (80°-90°)	8.4	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 III Medium



REPORT NUMBER: P957510
 CATALOG NUMBER: GALN-SB9D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3
2.5°	10154.1	10246.1	10233.0	10294.3	10316.2	10403.7	10491.3	10609.5	10740.9	10736.5
5°	9580.5	9672.5	9694.4	9777.6	9882.7	10018.4	10197.9	10434.4	10679.6	10719.0
7.5°	8901.8	8998.2	9055.1	9221.5	9414.1	9694.4	9987.8	10333.7	10740.9	10797.8
10°	8223.1	8310.7	8385.2	8621.6	8928.1	9344.1	9821.4	10320.5	10867.9	10951.1
12.5°	7802.8	7886.0	7969.2	8175.0	8555.9	9063.9	9711.9	10381.8	11078.0	11196.3
15°	7653.9	7728.4	7794.0	7977.9	8332.6	8910.6	9690.0	10508.8	11345.1	11502.8
17.5°	7675.8	7715.2	7759.0	7899.1	8245.0	8840.5	9729.4	10727.7	11660.4	11800.5
20°	7802.8	7824.7	7829.1	7925.4	8231.9	8831.8	9808.2	10937.9	11958.2	12146.4
22.5°	7964.8	7973.6	7964.8	8030.5	8315.1	8897.5	9913.3	11191.9	12290.9	12466.1
25°	8722.3	8555.9	8345.7	8218.8	8455.2	9024.4	10070.9	11533.4	12654.4	12825.1
27.5°	11073.7	10596.4	9843.3	8998.2	8744.2	9208.3	10289.9	11879.3	13022.2	13175.4
30°	14891.9	14265.7	12987.1	11082.4	9672.5	9593.7	10574.5	12225.3	13411.9	13578.3
32.5°	18718.8	18565.6	17090.0	14454.0	11761.1	10451.9	11047.4	12693.8	13928.6	14059.9
35°	22589.6	22278.7	21070.2	18464.9	14979.4	12199.0	11835.6	13306.8	14607.2	14756.1
37.5°	25553.9	25365.6	24616.9	22471.3	18797.6	14896.2	13184.2	14257.0	15592.5	15758.8
40°	28172.4	28084.8	27830.8	26416.5	23066.8	18425.5	15281.6	15728.2	16958.6	17155.6
42.5°	30230.4	30436.1	30580.6	30186.6	27467.4	22453.8	18101.4	17794.9	18863.3	19064.7
45°	32336.5	32406.6	32988.9	33558.1	31837.3	26666.1	21280.3	20216.3	21232.2	21481.8
47.5°	33689.5	33969.7	34994.3	35997.1	35511.0	30843.4	24695.7	23075.6	23977.6	24446.1
50°	33790.2	34320.0	35730.0	37477.1	38186.4	34819.2	28408.8	26333.3	27292.3	27808.9
52.5°	32113.2	32936.4	35121.3	37678.5	39631.4	38186.4	32248.9	29591.1	30821.5	31495.8
55°	24621.3	25698.4	32831.3	36583.8	39688.3	40739.2	35988.3	32984.5	34753.5	35515.4
57.5°	21451.1	21994.1	25812.3	34683.5	38633.0	41768.2	39368.6	36216.0	39031.5	39977.3
60°	17847.5	18561.2	21648.2	31574.6	37201.2	41868.9	42354.9	40384.5	43668.5	44732.5
62.5°	12128.9	12903.9	15973.4	26232.6	35243.9	41820.7	44802.6	44675.6	48822.2	49965.0
65°	7513.8	7999.8	10022.8	21420.5	32507.3	41873.2	47364.1	49886.2	54260.5	55420.9
67.5°	5937.5	6160.8	7216.1	16446.3	27791.4	40691.0	49921.2	54785.9	59379.2	60298.7
70°	3989.0	4124.7	5250.0	11025.5	20676.1	35235.2	49873.1	57246.8	62015.1	62474.9
72.5°	2101.8	2206.9	3069.4	5105.5	12488.0	25046.0	42039.6	54304.3	59392.3	58700.5
75°	1050.9	1226.0	2066.7	2592.2	5333.2	13968.0	26105.6	42814.7	46746.7	44067.0
77.5°	796.9	963.3	1707.7	1707.7	1856.6	4702.7	11056.1	23351.5	21538.7	17935.0
80°	507.9	656.8	1493.1	1291.7	775.0	1195.4	2881.2	6541.7	4575.7	3481.0
82.5°	297.7	429.1	1243.5	853.8	433.5	442.2	814.4	1392.4	1186.6	923.9
85°	118.2	280.2	853.8	337.2	170.8	109.5	245.2	297.7	245.2	183.9
87.5°	0.0	65.7	148.9	0.0	13.1	8.8	17.5	21.9	21.9	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957510
 CATALOG NUMBER: GALN-SB9D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10815.3	0°	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3	10815.3
10824.1	2.5°	10863.5	10872.2	10898.5	10902.9	10841.6	10762.8	10732.1	10719.0	10666.4	10662.1
10894.1	5°	10994.8	11034.3	10994.8	10881.0	10609.5	10228.6	9939.6	9703.1	9488.6	9422.9
11135.0	7.5°	11257.6	11297.0	11178.7	10732.1	10049.1	9291.5	8608.5	8126.8	7693.3	7531.3
11428.3	10°	11634.1	11686.7	11314.5	10412.5	9204.0	7986.7	6830.7	6016.3	5381.4	5123.0
11826.8	12.5°	12107.0	12128.9	11388.9	9926.4	8104.9	6366.6	4729.0	3857.6	3292.8	3082.6
12308.4	15°	12628.1	12597.4	11397.7	9265.3	6607.4	4501.3	3087.0	2535.3	2307.6	2237.5
12790.1	17.5°	13175.4	13048.4	11222.5	8310.7	4965.4	3078.2	2290.0	2158.7	2119.3	2101.8
13267.4	20°	13714.0	13429.4	10902.9	7062.8	3564.2	2298.8	2079.9	2040.5	2018.6	2009.8
13749.0	22.5°	14204.4	13718.4	10355.6	5613.5	2587.8	2031.7	1966.0	1931.0	1891.6	1874.1
14217.5	25°	14681.7	13884.8	9584.9	4260.4	2071.1	1900.3	1847.8	1782.1	1729.6	1707.7
14721.1	27.5°	15145.8	13989.9	8621.6	3152.6	1847.8	1777.7	1681.4	1589.5	1550.0	1541.3
15259.7	30°	15640.6	14024.9	7526.9	2351.3	1712.1	1624.5	1484.4	1379.3	1357.4	1361.8
15986.5	32.5°	16244.9	14077.4	6423.5	1926.6	1598.2	1440.6	1274.2	1164.7	1147.2	1164.7
17046.2	35°	16967.4	14182.5	5359.5	1773.4	1497.5	1252.3	1072.8	980.8	963.3	976.4
18403.6	37.5°	17948.2	14353.3	4365.5	1742.7	1414.3	1094.7	902.0	827.6	827.6	831.9
20067.5	40°	19253.0	14808.7	3476.7	1720.8	1370.5	976.4	761.9	731.2	744.4	753.1
22186.7	42.5°	20842.5	15776.4	2876.8	1694.5	1322.4	923.9	691.8	678.7	700.6	709.3
24726.4	45°	22624.6	17002.4	2666.6	1650.8	1278.6	958.9	661.2	643.7	669.9	674.3
27572.5	47.5°	24468.0	18202.1	2640.3	1602.6	1234.8	1011.5	652.4	613.0	643.7	648.0
30611.3	50°	26333.3	18985.9	2666.6	1528.2	1164.7	1011.5	656.8	582.4	608.6	621.8
33763.9	52.5°	28211.8	19345.0	2649.1	1366.1	1042.1	950.2	656.8	556.1	582.4	591.1
37170.5	55°	30033.3	19274.9	2382.0	1125.3	884.5	840.7	639.3	534.2	551.7	556.1
40388.9	57.5°	31473.9	18298.5	1887.2	875.7	718.1	700.6	582.4	507.9	521.1	516.7
43340.1	60°	32227.0	16152.9	1348.6	674.3	564.8	551.7	512.3	472.9	481.7	459.8
45840.3	62.5°	32235.8	13315.5	902.0	534.2	451.0	437.9	437.9	424.7	416.0	372.2
47775.7	65°	31548.3	10167.3	599.9	424.7	363.4	341.5	367.8	363.4	332.8	271.5
48366.8	67.5°	29989.5	6664.3	455.4	332.8	280.2	267.1	293.4	306.5	284.6	227.7
46212.5	70°	26784.3	3879.5	376.6	258.3	210.2	197.0	236.4	262.7	236.4	183.9
39500.0	72.5°	22248.0	2093.0	306.5	192.7	144.5	131.4	188.3	214.6	188.3	135.7
25343.8	75°	14436.5	1120.9	236.4	127.0	74.4	83.2	140.1	157.6	131.4	87.6
7439.4	77.5°	4847.2	494.8	148.9	61.3	35.0	35.0	83.2	96.3	61.3	30.7
1353.0	80°	1081.5	205.8	61.3	26.3	13.1	13.1	17.5	17.5	8.8	0.0
416.0	82.5°	354.7	83.2	26.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0
105.1	85°	135.7	30.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.0	87.5°	52.5	4.4	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°
10815.3
10670.8
9383.5
7465.6
5013.6
3016.9
2237.5
2097.4
2001.1
1869.7
1698.9
1532.5
1361.8
1160.3
972.1
827.6
753.1
709.3
678.7
652.4
626.2
591.1
556.1
516.7
455.4
359.1
262.7
223.3
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131.4
78.8
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