

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: P954717

Luminaire Tested: **GALN-SB7D-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954717
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-SB7D-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 57630 lumens
Efficiency: N/A
Efficacy: 112.4 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

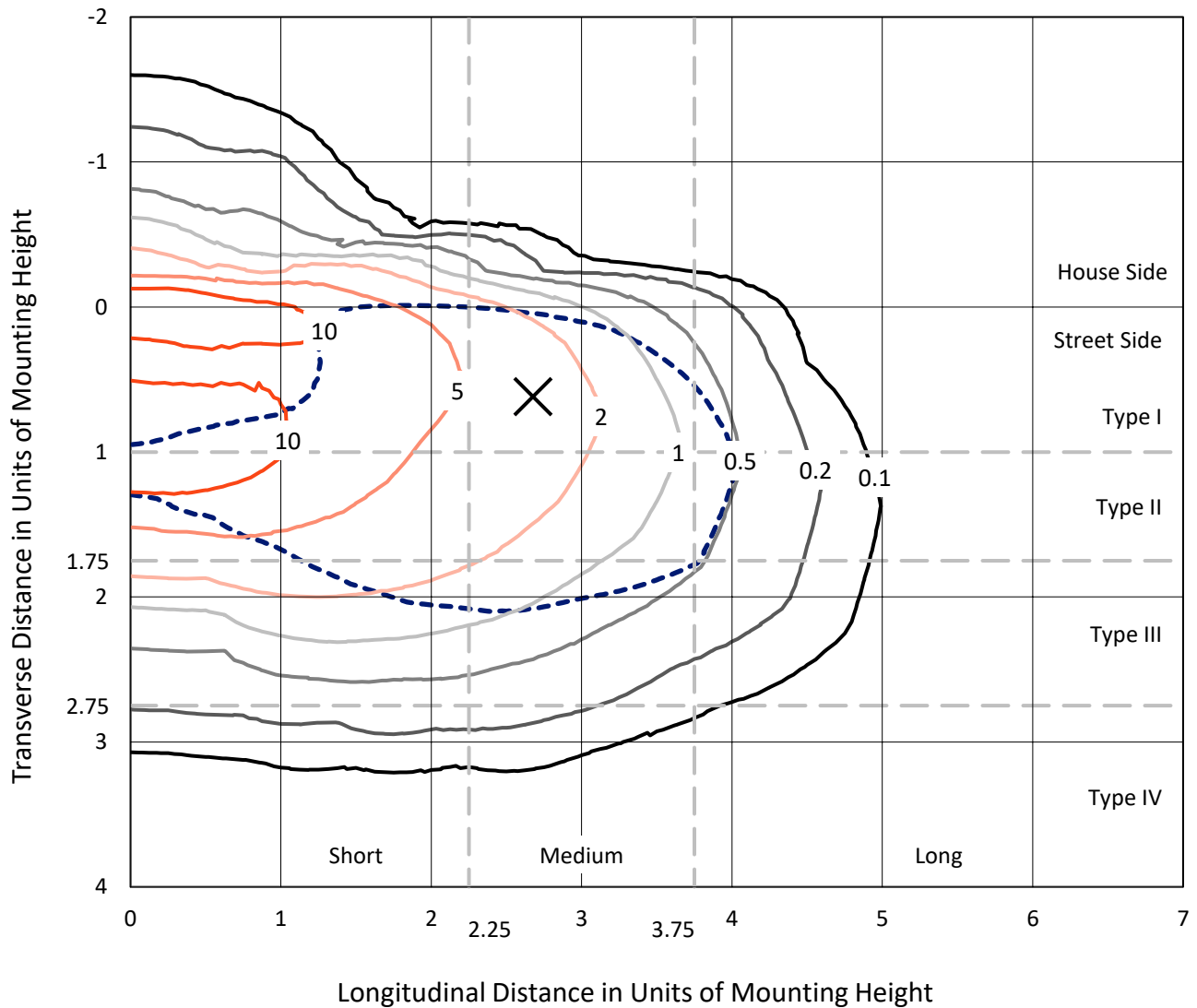
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

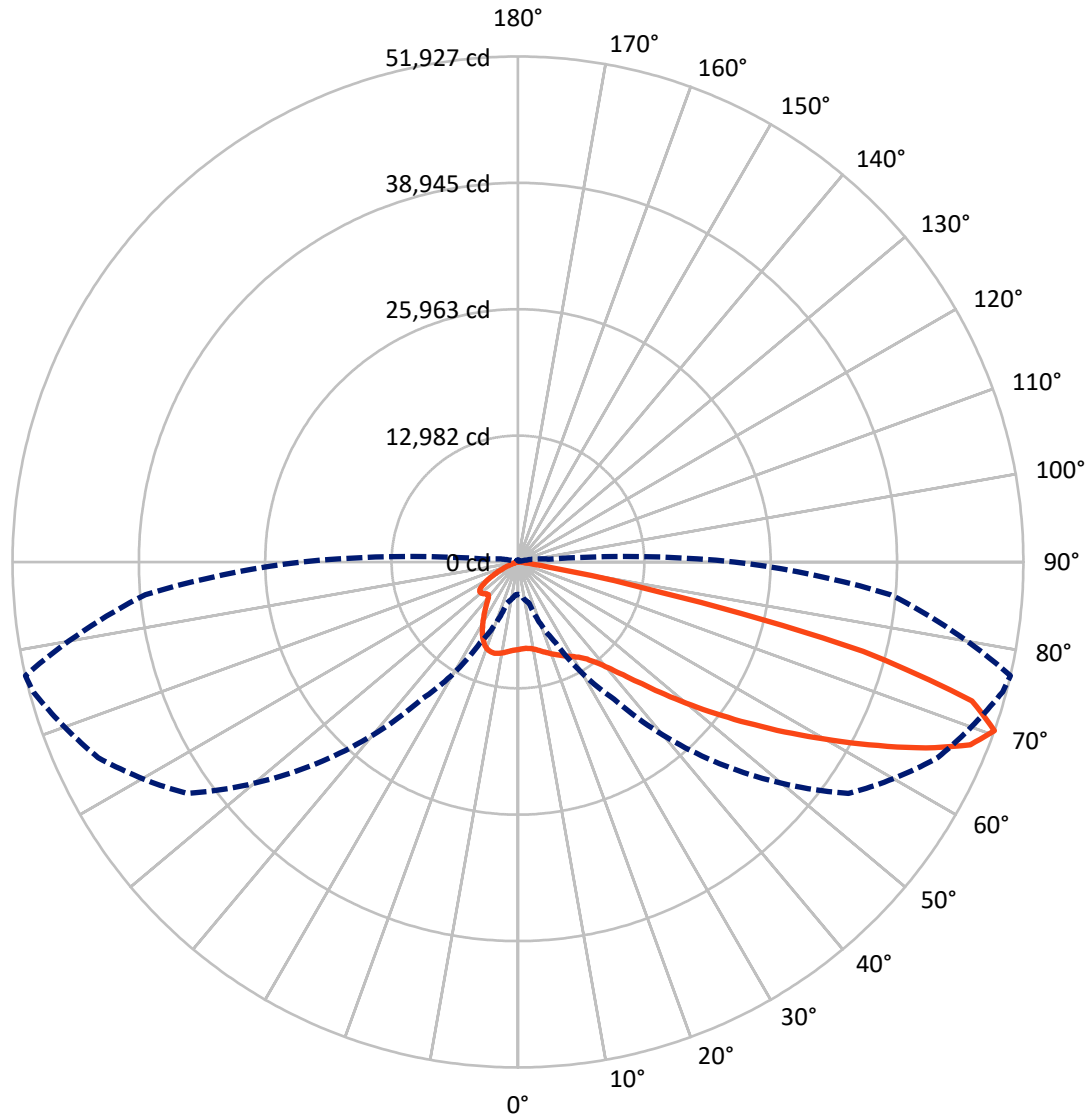
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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
House Side	Lumens	6075.0	0.0	6075.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	51555.0	0.0	51555.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	57630.0	0.0	57630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.7	1.3
10°-20°	1839.1	3.2
20°-30°	2844.6	4.9
30°-40°	5161.7	9.0
40°-50°	9743.3	16.9
50°-60°	14078.3	24.4
60°-70°	14986.0	26.0
70°-80°	7941.5	13.8
80°-90°	260.8	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°	57630.0	100.0
0°-180°	57630.0	100.0

Coefficient of Utilization



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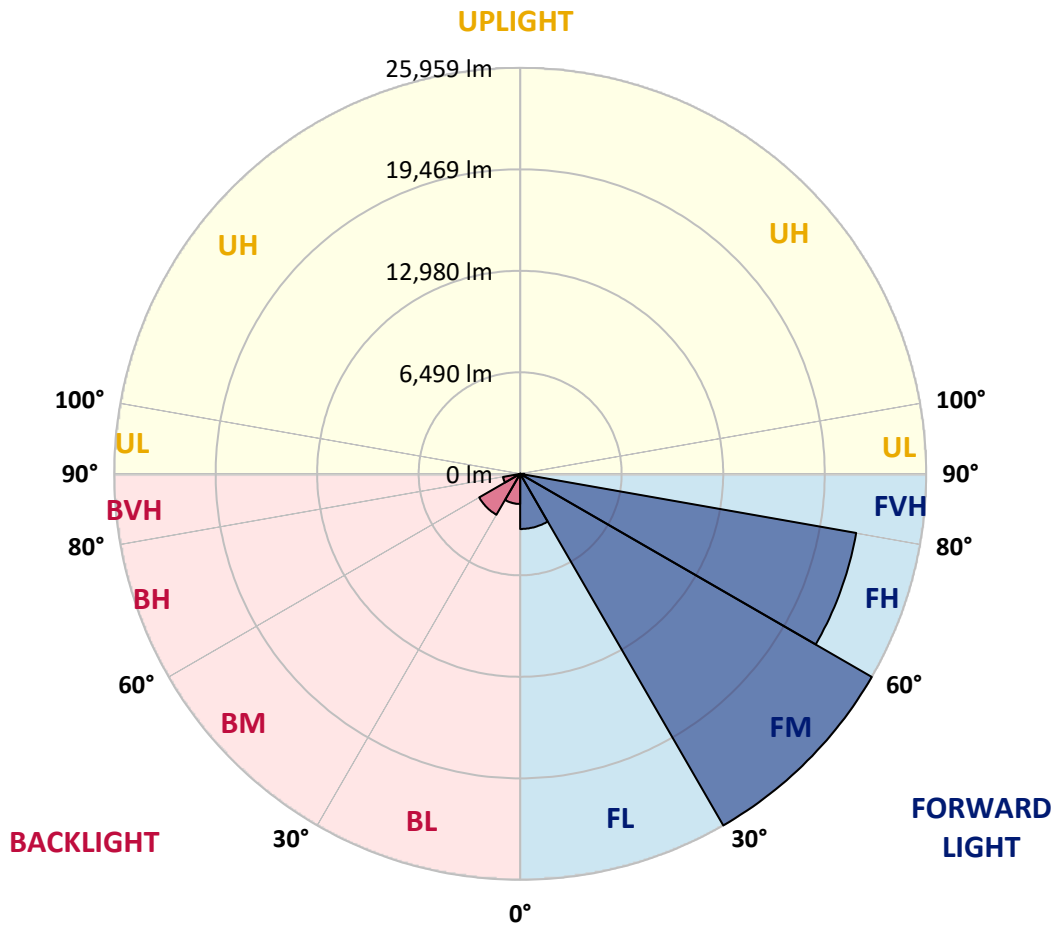
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3528.3	6.1			
FM (30°-60°)	25959.1	45.0			
FH (60°-80°)	21813.8	37.9			G5
FVH (80°-90°)	253.7	0.4			G3/500
BL (0°-30°)	1930.1	3.3	B3/2500		
BM (30°-60°)	3024.2	5.2	B3/5000		
BH (60°-80°)	1113.7	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2
2.5°	8439.7	8516.1	8505.2	8556.2	8574.4	8647.1	8719.9	8818.2	8927.4	8923.7
5°	7962.9	8039.4	8057.6	8126.7	8214.1	8326.9	8476.1	8672.6	8876.4	8909.2
7.5°	7398.8	7478.9	7526.2	7664.5	7824.6	8057.6	8301.4	8588.9	8927.4	8974.7
10°	6834.7	6907.5	6969.4	7165.9	7420.7	7766.4	8163.1	8578.0	9032.9	9102.1
12.5°	6485.4	6554.5	6623.6	6794.7	7111.3	7533.5	8072.1	8628.9	9207.6	9305.9
15°	6361.6	6423.5	6478.1	6630.9	6925.7	7406.1	8053.9	8734.5	9429.6	9560.6
17.5°	6379.8	6412.6	6449.0	6565.4	6852.9	7347.9	8086.7	8916.5	9691.6	9808.1
20°	6485.4	6503.6	6507.2	6587.3	6842.0	7340.6	8152.2	9091.1	9939.1	10095.6
22.5°	6620.0	6627.3	6620.0	6674.6	6911.2	7395.2	8239.5	9302.2	10215.7	10361.3
25°	7249.6	7111.3	6936.6	6831.1	7027.6	7500.7	8370.5	9586.1	10517.8	10659.7
27.5°	9204.0	8807.3	8181.3	7478.9	7267.8	7653.6	8552.5	9873.6	10823.5	10950.9
30°	12377.5	11857.1	10794.4	9211.2	8039.4	7973.9	8789.1	10161.1	11147.4	11285.7
32.5°	15558.3	15430.9	14204.5	12013.6	9775.3	8687.2	9182.1	10550.5	11576.8	11686.0
35°	18775.5	18517.1	17512.6	15347.2	12450.3	10139.3	9837.2	11060.0	12140.9	12264.7
37.5°	21239.4	21082.9	20460.5	18677.2	15623.8	12381.1	10958.1	11849.8	12959.8	13098.1
40°	23415.7	23342.9	23131.8	21956.3	19172.2	15314.5	12701.4	13072.6	14095.3	14259.0
42.5°	25126.2	25297.2	25417.3	25089.8	22829.8	18662.7	15045.1	14790.4	15678.4	15845.8
45°	26876.7	26935.0	27419.0	27892.1	26461.8	22163.8	17687.3	16803.0	17647.3	17854.7
47.5°	28001.3	28234.2	29085.8	29919.2	29515.3	25635.7	20526.0	19179.5	19929.2	20318.6
50°	28085.0	28525.4	29697.2	31149.4	31738.9	28940.3	23612.2	21887.2	22684.2	23113.6
52.5°	26691.1	27375.3	29191.4	31316.8	32939.9	31738.9	26803.9	24594.8	25617.5	26178.0
55°	20464.2	21359.5	27288.0	30406.9	32987.2	33860.7	29912.0	27415.4	28885.7	29518.9
57.5°	17829.3	18280.5	21454.1	28827.4	32110.1	34715.9	32721.6	30101.2	32441.3	33227.4
60°	14834.1	15427.3	17993.0	26243.5	30920.1	34799.6	35203.6	33565.9	36295.4	37179.8
62.5°	10081.0	10725.2	13276.4	21803.5	29293.3	34759.6	37238.0	37132.5	40579.0	41528.8
65°	6245.2	6649.1	8330.5	17803.8	27018.7	34803.3	39367.0	41463.3	45099.0	46063.5
67.5°	4935.0	5120.6	5997.7	13669.5	23099.1	33820.6	41492.4	45535.8	49353.5	50117.7
70°	3315.5	3428.3	4363.6	9163.9	17185.1	29286.0	41452.4	47581.1	51544.4	51926.5
72.5°	1746.9	1834.2	2551.2	4243.5	10379.5	20817.2	34941.6	45135.4	49364.4	48789.4
75°	873.4	1019.0	1717.8	2154.5	4432.8	11609.6	21697.9	35585.7	38853.9	36626.6
77.5°	662.4	800.7	1419.4	1419.4	1543.1	3908.7	9189.4	19408.8	17902.1	14906.9
80°	422.2	545.9	1241.0	1073.6	644.2	993.5	2394.7	5437.2	3803.1	2893.3
82.5°	247.5	356.7	1033.6	709.7	360.3	367.6	676.9	1157.3	986.3	767.9
85°	98.3	232.9	709.7	280.2	141.9	91.0	203.8	247.5	203.8	152.9
87.5°	0.0	54.6	123.7	0.0	10.9	7.3	14.6	18.2	18.2	14.6
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°
8989.2	0°	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2
8996.5	2.5°	9029.3	9036.6	9058.4	9062.0	9011.1	8945.6	8920.1	8909.2	8865.5	8861.9
9054.7	5°	9138.5	9171.2	9138.5	9043.8	8818.2	8501.6	8261.4	8064.8	7886.5	7831.9
9254.9	7.5°	9356.8	9389.6	9291.3	8920.1	8352.3	7722.7	7155.0	6754.7	6394.4	6259.7
9498.8	10°	9669.8	9713.5	9404.1	8654.4	7650.0	6638.2	5677.4	5000.5	4472.8	4258.1
9829.9	12.5°	10062.9	10081.0	9466.0	8250.4	6736.5	5291.6	3930.5	3206.3	2736.8	2562.1
10230.3	15°	10495.9	10470.5	9473.3	7700.9	5491.8	3741.3	2565.8	2107.2	1917.9	1859.7
10630.6	17.5°	10950.9	10845.3	9327.7	6907.5	4127.0	2558.5	1903.4	1794.2	1761.5	1746.9
11027.3	20°	11398.5	11161.9	9062.0	5870.3	2962.4	1910.7	1728.7	1695.9	1677.7	1670.5
11427.6	22.5°	11806.1	11402.1	8607.1	4665.7	2150.9	1688.7	1634.1	1605.0	1572.2	1557.6
11817.0	25°	12202.8	11540.4	7966.6	3541.1	1721.4	1579.5	1535.8	1481.2	1437.6	1419.4
12235.6	27.5°	12588.6	11627.8	7165.9	2620.3	1535.8	1477.6	1397.5	1321.1	1288.3	1281.1
12683.2	30°	12999.8	11656.9	6256.1	1954.3	1423.0	1350.2	1233.7	1146.4	1128.2	1131.8
13287.3	32.5°	13502.1	11700.6	5339.0	1601.3	1328.4	1197.4	1059.1	968.1	953.5	968.1
14168.1	35°	14102.6	11787.9	4454.6	1473.9	1244.7	1040.9	891.6	815.2	800.7	811.6
15296.3	37.5°	14917.8	11929.8	3628.4	1448.5	1175.5	909.8	749.7	687.8	687.8	691.5
16679.2	40°	16002.3	12308.3	2889.7	1430.3	1139.1	811.6	633.3	607.8	618.7	626.0
18440.7	42.5°	17323.4	13112.6	2391.1	1408.4	1099.1	767.9	575.0	564.1	582.3	589.6
20551.5	45°	18804.6	14131.7	2216.4	1372.0	1062.7	797.0	549.5	535.0	556.8	560.5
22917.1	47.5°	20336.8	15128.9	2194.5	1332.0	1026.3	840.7	542.3	509.5	535.0	538.6
25442.8	50°	21887.2	15780.3	2216.4	1270.1	968.1	840.7	545.9	484.0	505.9	516.8
28063.2	52.5°	23448.4	16078.7	2201.8	1135.5	866.2	789.7	545.9	462.2	484.0	491.3
30894.6	55°	24962.4	16020.5	1979.8	935.3	735.2	698.8	531.3	444.0	458.6	462.2
33569.5	57.5°	26159.8	15208.9	1568.6	727.9	596.9	582.3	484.0	422.2	433.1	429.4
36022.5	60°	26785.7	13425.6	1120.9	560.5	469.5	458.6	425.8	393.1	400.3	382.1
38100.5	62.5°	26793.0	11067.3	749.7	444.0	374.9	363.9	363.9	353.0	345.7	309.3
39709.1	65°	26221.6	8450.6	498.6	353.0	302.1	283.9	305.7	302.1	276.6	225.6
40200.5	67.5°	24926.0	5539.1	378.5	276.6	232.9	222.0	243.8	254.8	236.6	189.2
38409.9	70°	22262.0	3224.5	313.0	214.7	174.7	163.8	196.5	218.4	196.5	152.9
32830.7	72.5°	18491.6	1739.6	254.8	160.1	120.1	109.2	156.5	178.3	156.5	112.8
21064.7	75°	11999.0	931.7	196.5	105.5	61.9	69.1	116.5	131.0	109.2	72.8
6183.3	77.5°	4028.8	411.2	123.7	51.0	29.1	29.1	69.1	80.1	51.0	25.5
1124.6	80°	898.9	171.1	51.0	21.8	10.9	10.9	14.6	14.6	7.3	0.0
345.7	82.5°	294.8	69.1	21.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0
87.3	85°	112.8	25.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.1	87.5°	43.7	3.6	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°
8989.2
8869.1
7799.2
6205.1
4167.1
2507.5
1859.7
1743.3
1663.2
1554.0
1412.1
1273.8
1131.8
964.4
807.9
687.8
626.0
589.6
564.1
542.3
520.4
491.3
462.2
429.4
378.5
298.4
218.4
185.6
145.6
109.2
65.5
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