

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: P957069

Luminaire Tested: **GALN-SB9C-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957069  
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-SB9C-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

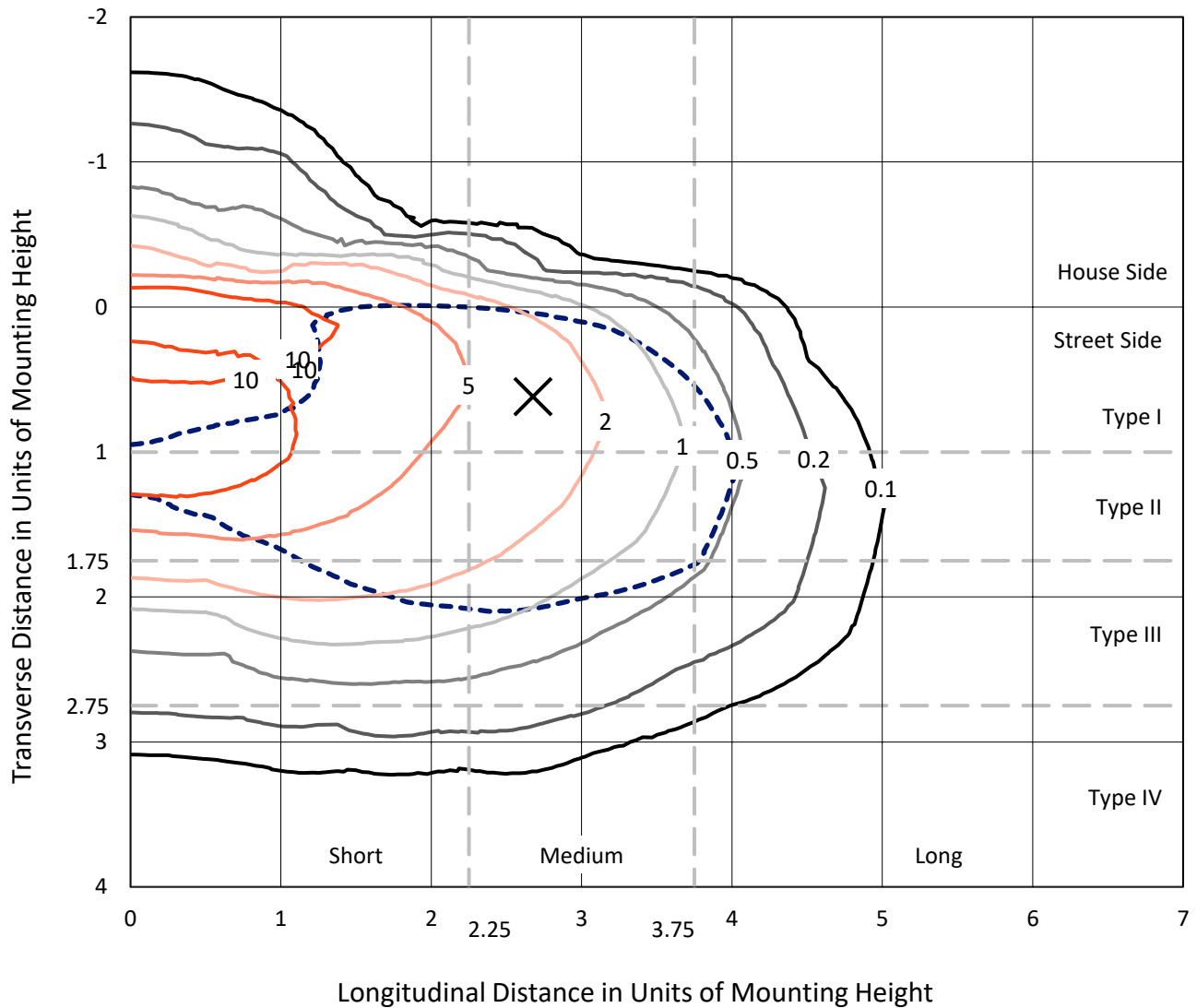
Lumens per Lamp: N/A  
Luminaire Lumens: 60083 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

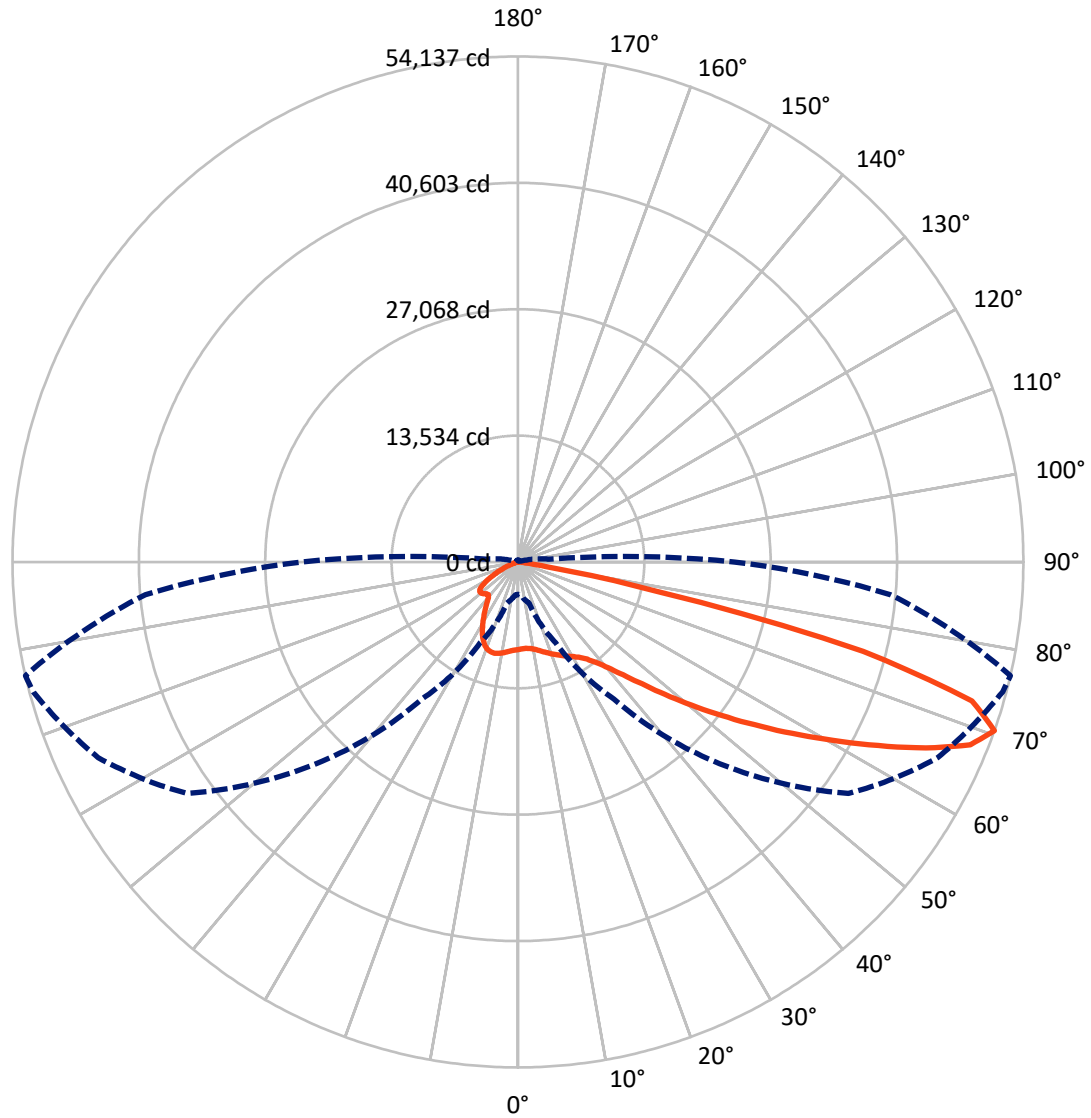
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	6333.6	0.0	6333.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	53749.4	0.0	53749.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	60083.0	0.0	60083.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	807.7	1.3
10°-20°	1917.4	3.2
20°-30°	2965.7	4.9
30°-40°	5381.4	9.0
40°-50°	10158.0	16.9
50°-60°	14677.5	24.4
60°-70°	15623.8	26.0
70°-80°	8279.5	13.8
80°-90°	271.9	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°	60083.0	100.0
0°-180°	60083.0	100.0

**Coefficient of Utilization**



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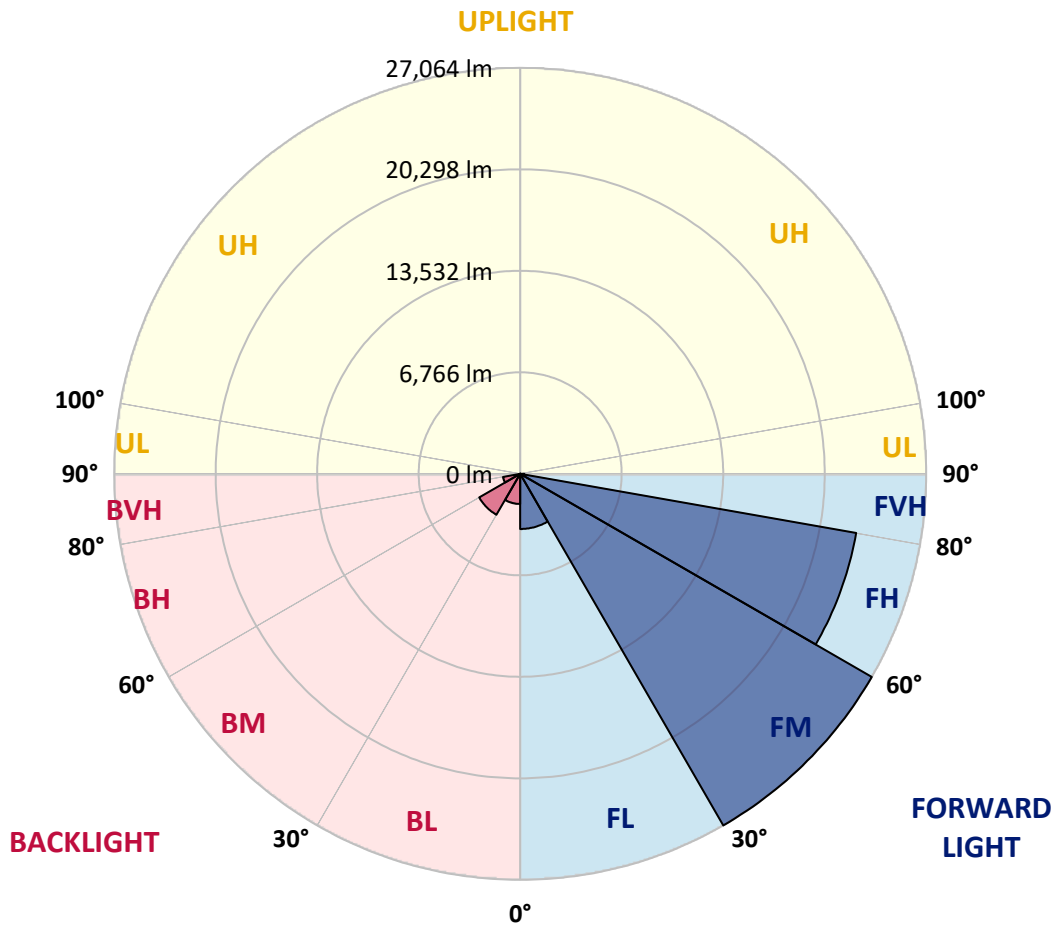
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3678.5	6.1			
FM (30°-60°)	27064.1	45.0			
FH (60°-80°)	22742.3	37.9			G5
FVH (80°-90°)	264.6	0.4			G3/500
BL (0°-30°)	2012.3	3.3	B3/2500		
BM (30°-60°)	3152.9	5.2	B3/5000		
BH (60°-80°)	1161.1	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.3	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°	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9
2.5°	8798.9	8878.6	8867.2	8920.3	8939.3	9015.2	9091.1	9193.5	9307.4	9303.6
5°	8301.9	8381.6	8400.5	8472.6	8563.7	8681.3	8836.9	9041.8	9254.2	9288.4
7.5°	7713.8	7797.2	7846.6	7990.7	8157.7	8400.5	8654.7	8954.5	9307.4	9356.7
10°	7125.7	7201.5	7266.0	7470.9	7736.5	8097.0	8510.6	8943.1	9417.4	9489.5
12.5°	6761.4	6833.5	6905.6	7083.9	7414.0	7854.2	8415.7	8996.2	9599.5	9702.0
15°	6632.4	6696.9	6753.8	6913.2	7220.5	7721.4	8396.7	9106.3	9831.0	9967.6
17.5°	6651.4	6685.5	6723.5	6844.9	7144.6	7660.6	8430.9	9296.0	10104.2	10225.6
20°	6761.4	6780.4	6784.2	6867.6	7133.2	7653.1	8499.2	9478.1	10362.2	10525.3
22.5°	6901.8	6909.4	6901.8	6958.7	7205.3	7710.0	8590.2	9698.2	10650.5	10802.3
25°	7558.2	7414.0	7231.9	7121.9	7326.7	7820.0	8726.8	9994.1	10965.5	11113.4
27.5°	9595.7	9182.1	8529.5	7797.2	7577.2	7979.4	8916.5	10293.9	11284.2	11417.0
30°	12904.3	12361.8	11253.8	9603.3	8381.6	8313.3	9163.2	10593.6	11621.9	11766.1
32.5°	16220.5	16087.7	14809.1	12524.9	10191.4	9056.9	9573.0	10999.6	12069.6	12183.4
35°	19574.7	19305.3	18258.1	16000.5	12980.2	10570.9	10255.9	11530.8	12657.7	12786.7
37.5°	22143.4	21980.2	21331.4	19472.2	16288.8	12908.1	11424.6	12354.2	13511.4	13655.6
40°	24412.4	24336.5	24116.4	22890.9	19988.2	15966.3	13242.0	13629.0	14695.2	14866.0
42.5°	26195.7	26374.0	26499.2	26157.7	23801.5	19457.0	15685.5	15419.9	16345.7	16520.3
45°	28020.7	28081.4	28586.1	29079.3	27588.2	23107.1	18440.2	17518.2	18398.4	18614.7
47.5°	29193.2	29436.0	30323.9	31192.7	30771.6	26726.9	21399.7	19995.8	20777.5	21183.4
50°	29280.4	29739.5	30961.3	32475.2	33089.9	30172.1	24617.3	22818.8	23649.7	24097.4
52.5°	27827.2	28540.5	30433.9	32649.7	34342.0	33089.9	27944.8	25641.7	26707.9	27292.2
55°	21335.2	22268.6	28449.5	31701.2	34391.3	35301.9	31185.2	28582.3	30115.2	30775.4
57.5°	18588.2	19058.7	22367.3	30054.5	33476.9	36193.6	34114.3	31382.5	33822.2	34641.7
60°	15465.5	16083.9	18758.9	27360.5	32236.2	36280.9	36702.0	34994.6	37840.3	38762.3
62.5°	10510.1	11181.7	13841.5	22731.5	30540.1	36239.1	38823.0	38713.0	42306.2	43296.5
65°	6511.0	6932.1	8685.1	18561.6	28168.7	36284.7	41042.7	43228.2	47018.7	48024.2
67.5°	5145.0	5338.5	6253.0	14251.3	24082.3	35260.2	43258.5	47474.0	51454.2	52251.0
70°	3456.6	3574.2	4549.3	9554.0	17916.6	30532.5	43216.8	49606.4	53738.3	54136.7
72.5°	1821.3	1912.3	2659.8	4424.1	10821.3	21703.3	36428.8	47056.6	51465.6	50866.1
75°	910.6	1062.4	1790.9	2246.2	4621.4	12103.7	22621.5	37100.4	40507.7	38185.6
77.5°	690.6	834.7	1479.8	1479.8	1608.8	4075.1	9580.5	20234.9	18664.0	15541.4
80°	440.1	569.1	1293.8	1119.3	671.6	1035.8	2496.6	5668.6	3965.0	3016.4
82.5°	258.0	371.8	1077.6	739.9	375.6	383.2	705.7	1206.6	1028.2	800.6
85°	102.4	242.8	739.9	292.2	148.0	94.9	212.5	258.0	212.5	159.4
87.5°	0.0	56.9	129.0	0.0	11.4	7.6	15.2	19.0	19.0	15.2
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°
9371.9	0°	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9	9371.9
9379.5	2.5°	9413.6	9421.2	9444.0	9447.7	9394.6	9326.3	9299.8	9288.4	9242.9	9239.1
9440.2	5°	9527.4	9561.6	9527.4	9428.8	9193.5	8863.4	8613.0	8408.1	8222.2	8165.3
9648.8	7.5°	9755.1	9789.2	9686.8	9299.8	8707.9	8051.5	7459.5	7042.2	6666.5	6526.2
9903.1	10°	10081.4	10126.9	9804.4	9022.8	7975.6	6920.8	5919.1	5213.3	4663.2	4439.3
10248.3	12.5°	10491.2	10510.1	9868.9	8601.6	7023.2	5516.9	4097.8	3342.8	2853.3	2671.2
10665.7	15°	10942.7	10916.1	9876.5	8028.7	5725.6	3900.5	2675.0	2196.9	1999.6	1938.9
11083.1	17.5°	11417.0	11306.9	9724.7	7201.5	4302.7	2667.4	1984.4	1870.6	1836.4	1821.3
11496.7	20°	11883.7	11637.0	9447.7	6120.2	3088.5	1992.0	1802.3	1768.1	1749.2	1741.6
11914.0	22.5°	12308.6	11887.5	8973.5	4864.3	2242.4	1760.5	1703.6	1673.3	1639.1	1624.0
12320.0	25°	12722.2	12031.7	8305.7	3691.8	1794.7	1646.7	1601.2	1544.3	1498.7	1479.8
12756.4	27.5°	13124.4	12122.7	7470.9	2731.9	1601.2	1540.5	1457.0	1377.3	1343.2	1335.6
13223.1	30°	13553.2	12153.1	6522.4	2037.5	1483.6	1407.7	1286.3	1195.2	1176.2	1180.0
13852.9	32.5°	14076.8	12198.6	5566.2	1669.5	1384.9	1248.3	1104.1	1009.3	994.1	1009.3
14771.1	35°	14702.8	12289.7	4644.2	1536.7	1297.6	1085.2	929.6	849.9	834.7	846.1
15947.3	37.5°	15552.7	12437.6	3782.9	1510.1	1225.6	948.6	781.6	717.1	717.1	720.9
17389.2	40°	16683.4	12832.2	3012.7	1491.2	1187.6	846.1	660.2	633.6	645.0	652.6
19225.6	42.5°	18060.8	13670.8	2492.8	1468.4	1145.9	800.6	599.5	588.1	607.1	614.7
21426.3	45°	19605.0	14733.2	2310.7	1430.4	1107.9	830.9	572.9	557.8	580.5	584.3
23892.6	47.5°	21202.4	15772.8	2287.9	1388.7	1070.0	876.5	565.3	531.2	557.8	561.6
26525.8	50°	22818.8	16452.0	2310.7	1324.2	1009.3	876.5	569.1	504.6	527.4	538.8
29257.7	52.5°	24446.5	16763.1	2295.5	1183.8	903.0	823.4	569.1	481.9	504.6	512.2
32209.6	55°	26024.9	16702.4	2064.1	975.1	766.4	728.5	554.0	462.9	478.1	481.9
34998.4	57.5°	27273.3	15856.3	1635.3	758.9	622.3	607.1	504.6	440.1	451.5	447.7
37555.7	60°	27925.9	13997.1	1168.6	584.3	489.5	478.1	443.9	409.8	417.4	398.4
39722.3	62.5°	27933.5	11538.4	781.6	462.9	390.8	379.4	379.4	368.0	360.5	322.5
41399.4	65°	27337.8	8810.3	519.8	368.0	314.9	296.0	318.7	314.9	288.4	235.2
41911.6	67.5°	25987.0	5774.9	394.6	288.4	242.8	231.5	254.2	265.6	246.6	197.3
40044.8	70°	23209.6	3361.7	326.3	223.9	182.1	170.7	204.9	227.7	204.9	159.4
34228.2	72.5°	19278.7	1813.7	265.6	166.9	125.2	113.8	163.2	185.9	163.2	117.6
21961.3	75°	12509.7	971.3	204.9	110.0	64.5	72.1	121.4	136.6	113.8	75.9
6446.5	77.5°	4200.3	428.8	129.0	53.1	30.4	30.4	72.1	83.5	53.1	26.6
1172.4	80°	937.2	178.3	53.1	22.8	11.4	11.4	15.2	15.2	7.6	0.0
360.5	82.5°	307.3	72.1	22.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
91.1	85°	117.6	26.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.4	87.5°	45.5	3.8	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>
9371.9
9246.7
8131.1
6469.2
4344.4
2614.3
1938.9
1817.5
1734.0
1620.2
1472.2
1328.0
1180.0
1005.5
842.3
717.1
652.6
614.7
588.1
565.3
542.6
512.2
481.9
447.7
394.6
311.1
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