

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: P954633

Luminaire Tested: **GALN-SB7D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954633
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 52391 lumens
Efficiency: N/A
Efficacy: 102.2 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

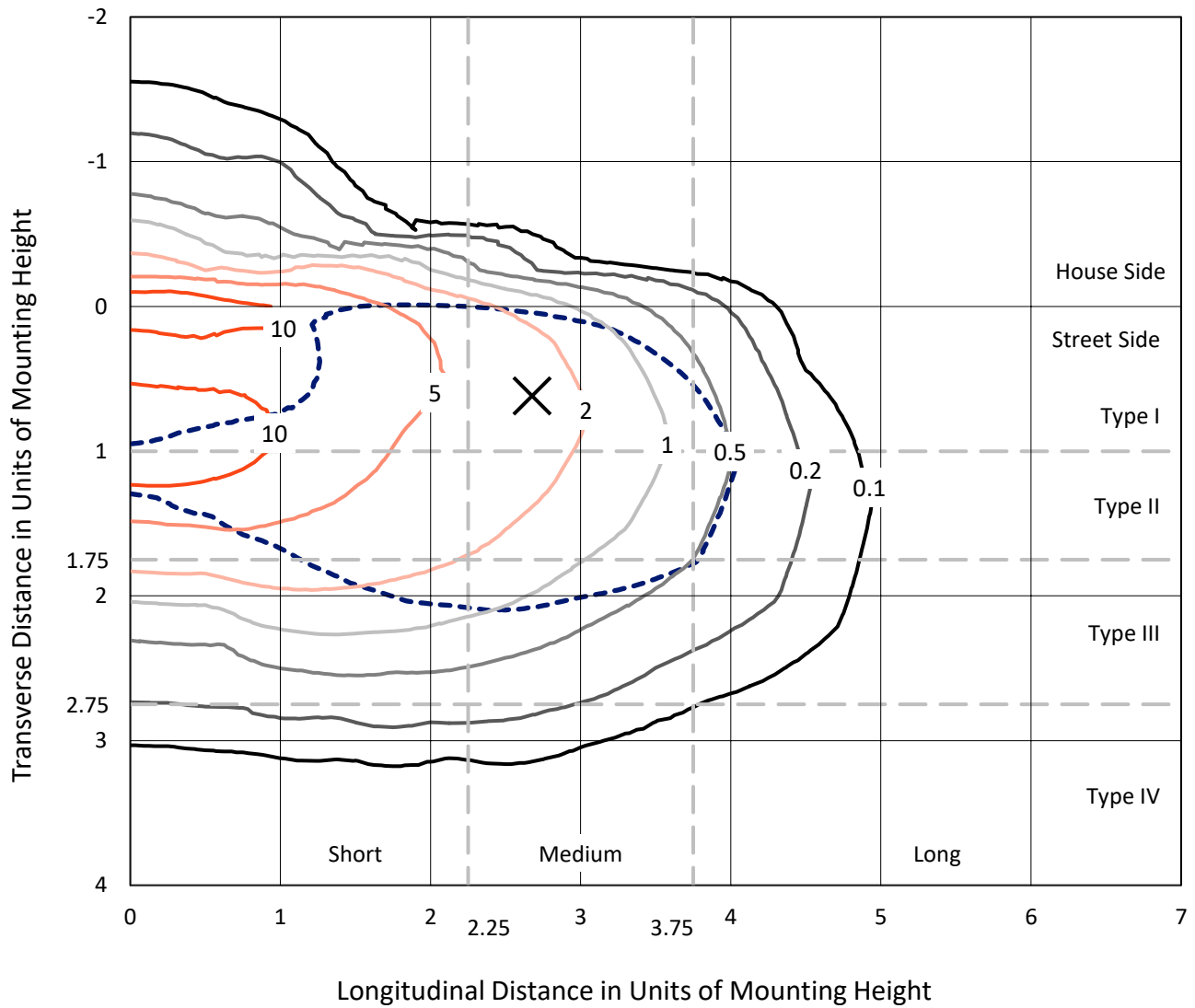
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

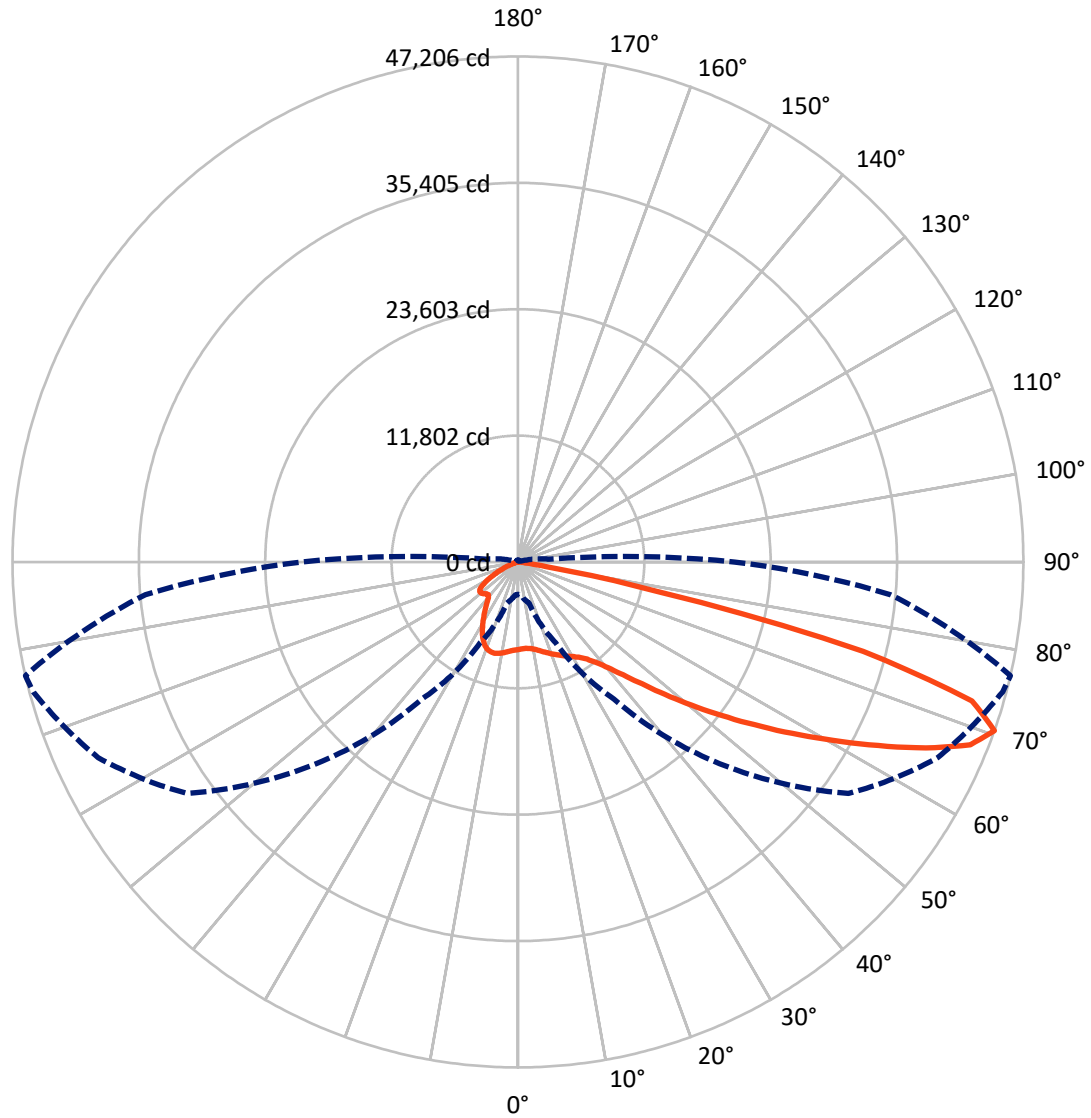
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	5522.8	0.0	5522.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	46868.2	0.0	46868.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	52391.0	0.0	52391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.3	1.3
10°-20°	1671.9	3.2
20°-30°	2586.0	4.9
30°-40°	4692.5	9.0
40°-50°	8857.6	16.9
50°-60°	12798.5	24.4
60°-70°	13623.6	26.0
70°-80°	7219.6	13.8
80°-90°	237.1	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°	52391.0	100.0
0°-180°	52391.0	100.0

Coefficient of Utilization



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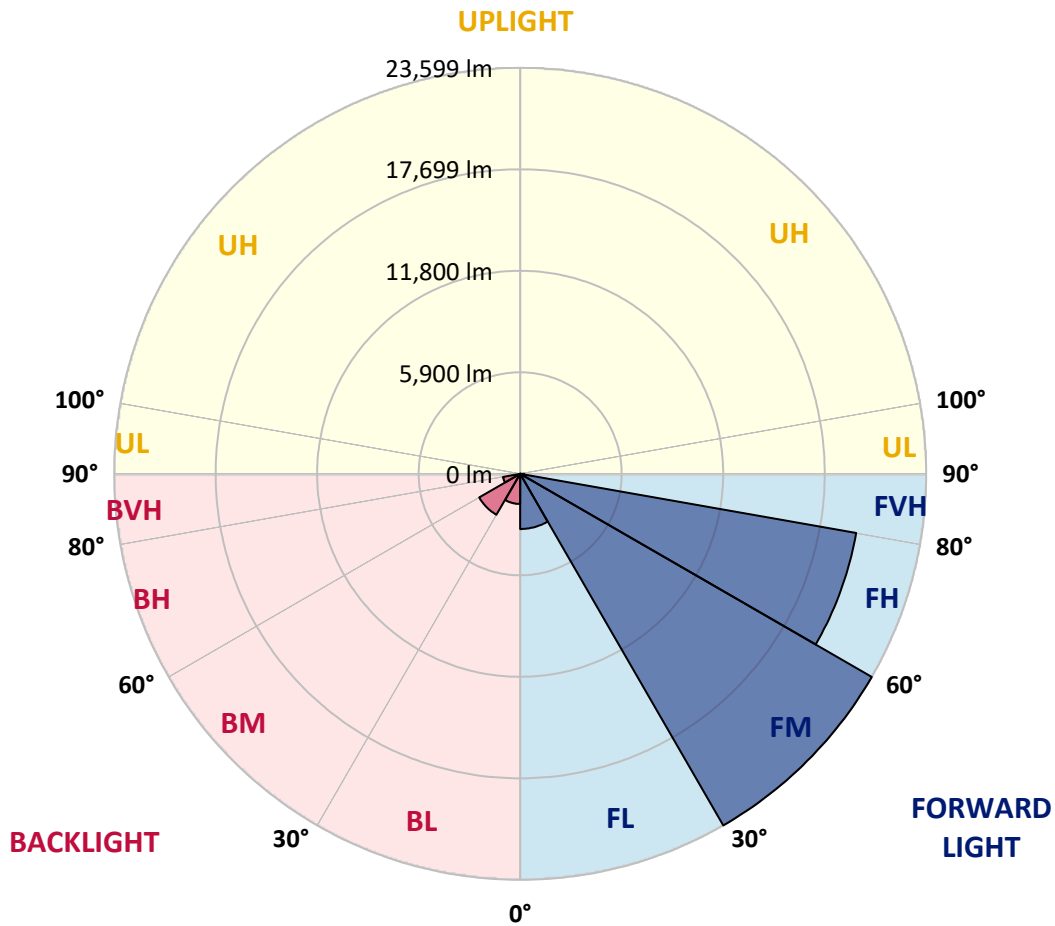
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3207.6	6.1			
FM (30°-60°)	23599.3	45.0			
FH (60°-80°)	19830.7	37.9			G5
FVH (80°-90°)	230.7	0.4			G3/500
BL (0°-30°)	1754.7	3.3	B3/2500		
BM (30°-60°)	2749.2	5.2	B3/5000		
BH (60°-80°)	1012.5	1.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0
2.5°	7672.5	7741.9	7732.0	7778.3	7794.9	7861.0	7927.2	8016.5	8115.8	8112.5
5°	7239.0	7308.5	7325.1	7387.9	7467.3	7569.9	7705.5	7884.2	8069.5	8099.3
7.5°	6726.2	6799.0	6842.0	6967.7	7113.3	7325.1	7546.7	7808.1	8115.8	8158.8
10°	6213.4	6279.6	6335.8	6514.5	6746.1	7060.4	7421.0	7798.2	8211.8	8274.6
12.5°	5895.8	5958.6	6021.5	6177.0	6464.9	6848.6	7338.3	7844.5	8370.6	8459.9
15°	5783.3	5839.5	5889.2	6028.1	6296.1	6732.8	7321.8	7940.5	8572.4	8691.5
17.5°	5799.8	5829.6	5862.7	5968.6	6229.9	6679.9	7351.5	8105.9	8810.6	8916.5
20°	5895.8	5912.3	5915.6	5988.4	6220.0	6673.3	7411.1	8264.7	9035.6	9177.8
22.5°	6018.2	6024.8	6018.2	6067.8	6282.9	6722.9	7490.5	8456.6	9287.0	9419.4
25°	6590.6	6464.9	6306.0	6210.1	6388.8	6818.9	7609.6	8714.6	9561.6	9690.7
27.5°	8367.3	8006.6	7437.6	6799.0	6607.1	6957.8	7775.0	8976.0	9839.5	9955.3
30°	11252.3	10779.2	9813.1	8373.9	7308.5	7249.0	7990.1	9237.4	10134.0	10259.7
32.5°	14143.9	14028.1	12913.2	10921.4	8886.7	7897.4	8347.4	9591.4	10524.4	10623.7
35°	17068.7	16833.8	15920.6	13952.0	11318.5	9217.5	8942.9	10054.6	11037.2	11149.7
37.5°	19308.5	19166.3	18600.5	16979.3	14203.5	11255.6	9962.0	10772.5	11781.6	11907.4
40°	21287.0	21220.9	21029.0	19960.3	17429.3	13922.3	11546.7	11884.2	12813.9	12962.8
42.5°	22842.0	22997.5	23106.7	22809.0	20754.4	16966.1	13677.4	13445.8	14253.1	14405.3
45°	24433.4	24486.4	24926.4	25356.5	24056.3	20148.9	16079.4	15275.4	16043.0	16231.6
47.5°	25455.8	25667.5	26441.7	27199.4	26832.1	23305.2	18660.1	17435.9	18117.5	18471.5
50°	25531.9	25932.2	26997.5	28317.6	28853.6	26309.4	21465.7	19897.5	20622.0	21012.4
52.5°	24264.7	24886.7	26537.7	28469.8	29945.4	28853.6	24367.3	22359.0	23288.7	23798.2
55°	18603.8	19417.7	24807.3	27642.7	29988.4	30782.5	27192.7	24923.1	26259.7	26835.4
57.5°	16208.5	16618.7	19503.7	26206.8	29191.1	31560.0	29746.9	27364.8	29492.2	30206.8
60°	13485.5	14024.8	16357.3	23857.8	28109.2	31636.1	32003.3	30514.5	32995.9	33799.9
62.5°	9164.6	9750.2	12069.5	19821.4	26630.3	31599.7	33852.8	33756.9	36890.0	37753.5
65°	5677.4	6044.7	7573.2	16185.3	24562.5	31639.4	35788.3	37694.0	40999.2	41876.0
67.5°	4486.4	4655.1	5452.4	12426.8	20999.2	30746.1	37720.5	41396.2	44866.9	45561.7
70°	3014.1	3116.6	3966.9	8330.9	15622.8	26623.7	37684.1	43255.6	46858.6	47206.0
72.5°	1588.1	1667.5	2319.3	3857.7	9435.9	18924.7	31765.1	41032.3	44876.8	44354.0
75°	794.0	926.4	1561.6	1958.6	4029.8	10554.2	19725.4	32350.7	35321.8	33297.0
77.5°	602.2	727.9	1290.3	1290.3	1402.8	3553.4	8354.0	17644.3	16274.6	13551.7
80°	383.8	496.3	1128.2	976.0	585.6	903.2	2177.0	4942.9	3457.4	2630.3
82.5°	225.0	324.2	939.6	645.2	327.5	334.2	615.4	1052.1	896.6	698.1
85°	89.3	211.7	645.2	254.8	129.0	82.7	185.3	225.0	185.3	139.0
87.5°	0.0	49.6	112.5	0.0	9.9	6.6	13.2	16.5	16.5	13.2
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°
8172.0	0°	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0	8172.0
8178.7	2.5°	8208.4	8215.1	8234.9	8238.2	8191.9	8132.3	8109.2	8099.3	8059.6	8056.3
8231.6	5°	8307.7	8337.5	8307.7	8221.7	8016.5	7728.7	7510.3	7331.7	7169.6	7119.9
8413.6	7.5°	8506.2	8536.0	8446.7	8109.2	7593.1	7020.7	6504.6	6140.6	5813.1	5690.7
8635.2	10°	8790.7	8830.4	8549.2	7867.7	6954.5	6034.7	5161.3	4545.9	4066.2	3871.0
8936.3	12.5°	9148.1	9164.6	8605.5	7500.4	6124.1	4810.6	3573.2	2914.8	2488.0	2329.2
9300.3	15°	9541.8	9518.6	8612.1	7000.8	4992.6	3401.2	2332.5	1915.6	1743.6	1690.7
9664.2	17.5°	9955.3	9859.4	8479.7	6279.6	3751.9	2325.9	1730.4	1631.1	1601.3	1588.1
10024.8	20°	10362.3	10147.2	8238.2	5336.6	2693.1	1737.0	1571.5	1541.8	1525.2	1518.6
10388.8	22.5°	10732.8	10365.6	7824.7	4241.5	1955.3	1535.2	1485.5	1459.1	1429.3	1416.0
10742.8	25°	11093.5	10491.3	7242.4	3219.2	1564.9	1435.9	1396.2	1346.6	1306.9	1290.3
11123.3	27.5°	11444.2	10570.7	6514.5	2382.1	1396.2	1343.3	1270.5	1201.0	1171.2	1164.6
11530.2	30°	11818.0	10597.2	5687.3	1776.7	1293.6	1227.5	1121.6	1042.2	1025.6	1029.0
12079.4	32.5°	12274.6	10636.9	4853.6	1455.7	1207.6	1088.5	962.8	880.1	866.8	880.1
12880.1	35°	12820.5	10716.3	4049.6	1340.0	1131.5	946.2	810.6	741.1	727.9	737.8
13905.7	37.5°	13561.6	10845.3	3298.6	1316.8	1068.7	827.1	681.6	625.3	625.3	628.6
15163.0	40°	14547.6	11189.4	2627.0	1300.2	1035.6	737.8	575.7	552.5	562.4	569.1
16764.3	42.5°	15748.6	11920.6	2173.7	1280.4	999.2	698.1	522.7	512.8	529.4	536.0
18683.2	45°	17095.1	12847.0	2014.9	1247.3	966.1	724.6	499.6	486.4	506.2	509.5
20833.8	47.5°	18488.0	13753.5	1995.0	1210.9	933.0	764.3	493.0	463.2	486.4	489.7
23129.9	50°	19897.5	14345.8	2014.9	1154.7	880.1	764.3	496.3	440.0	459.9	469.8
25512.0	52.5°	21316.8	14617.1	2001.7	1032.3	787.4	717.9	496.3	420.2	440.0	446.7
28086.0	55°	22693.2	14564.1	1799.8	850.3	668.3	635.2	483.0	403.6	416.9	420.2
30517.8	57.5°	23781.7	13826.3	1426.0	661.7	542.6	529.4	440.0	383.8	393.7	390.4
32747.8	60°	24350.7	12205.1	1019.0	509.5	426.8	416.9	387.1	357.3	363.9	347.4
34636.9	62.5°	24357.3	10061.2	681.6	403.6	340.8	330.9	330.9	320.9	314.3	281.2
36099.3	65°	23837.9	7682.4	453.3	320.9	274.6	258.1	277.9	274.6	251.4	205.1
36545.9	67.5°	22660.1	5035.6	344.1	251.4	211.7	201.8	221.7	231.6	215.1	172.0
34918.1	70°	20238.2	2931.4	284.5	195.2	158.8	148.9	178.7	198.5	178.7	139.0
29846.2	72.5°	16810.6	1581.5	231.6	145.6	109.2	99.3	142.3	162.1	142.3	102.6
19149.7	75°	10908.2	847.0	178.7	95.9	56.2	62.9	105.9	119.1	99.3	66.2
5621.2	77.5°	3662.5	373.9	112.5	46.3	26.5	26.5	62.9	72.8	46.3	23.2
1022.3	80°	817.2	155.5	46.3	19.9	9.9	9.9	13.2	13.2	6.6	0.0
314.3	82.5°	268.0	62.9	19.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0
79.4	85°	102.6	23.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.5	87.5°	39.7	3.3	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>
8172.0
8062.9
7090.2
5641.0
3788.3
2279.6
1690.7
1584.8
1512.0
1412.7
1283.7
1158.0
1029.0
876.8
734.5
625.3
569.1
536.0
512.8
493.0
473.1
446.7
420.2
390.4
344.1
271.3
198.5
168.7
132.3
99.3
59.6
19.9
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