

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: P938918

Luminaire Tested: **GALN-SB1B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

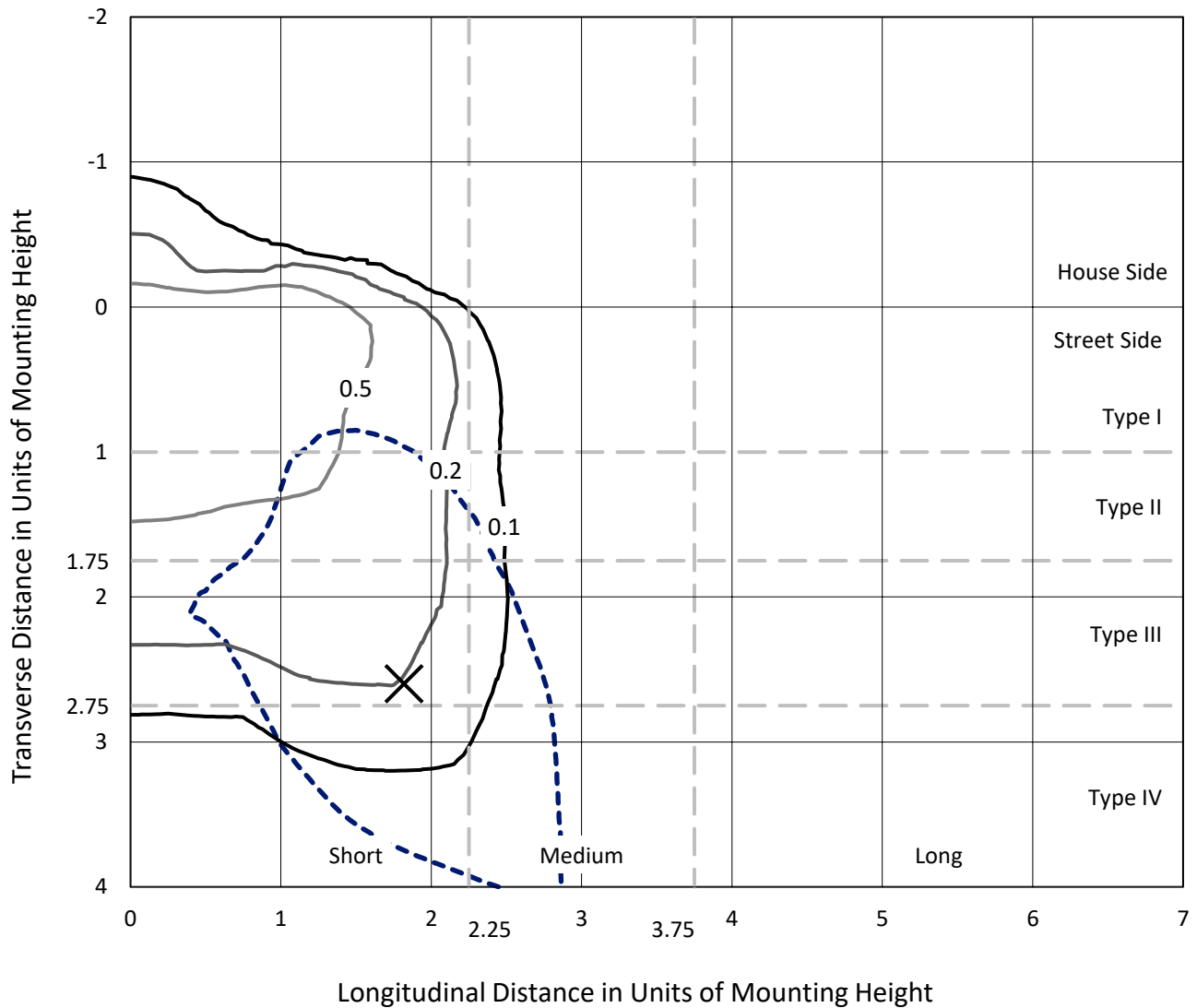
Lumens per Lamp: N/A  
Luminaire Lumens: 4265 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

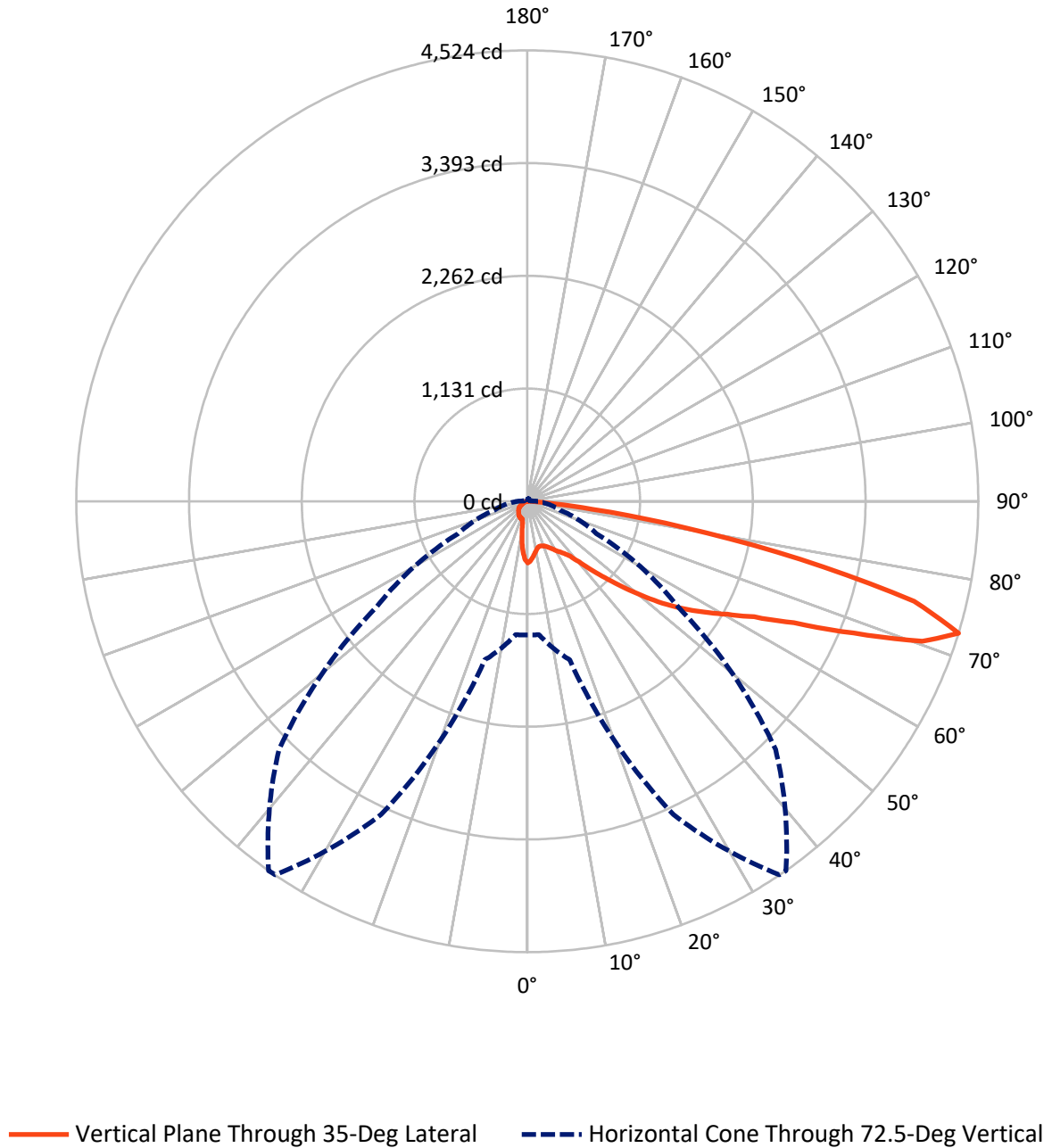
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	480.0	0.0	480.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	3785.0	0.0	3785.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	4265.0	0.0	4265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	1.2
10°-20°	118.8	2.8
20°-30°	193.0	4.5
30°-40°	322.1	7.6
40°-50°	609.4	14.3
50°-60°	968.3	22.7
60°-70°	1197.8	28.1
70°-80°	744.6	17.5
80°-90°	60.2	1.4
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°	4265.0	100.0
0°-180°	4265.0	100.0

**Coefficient of Utilization**



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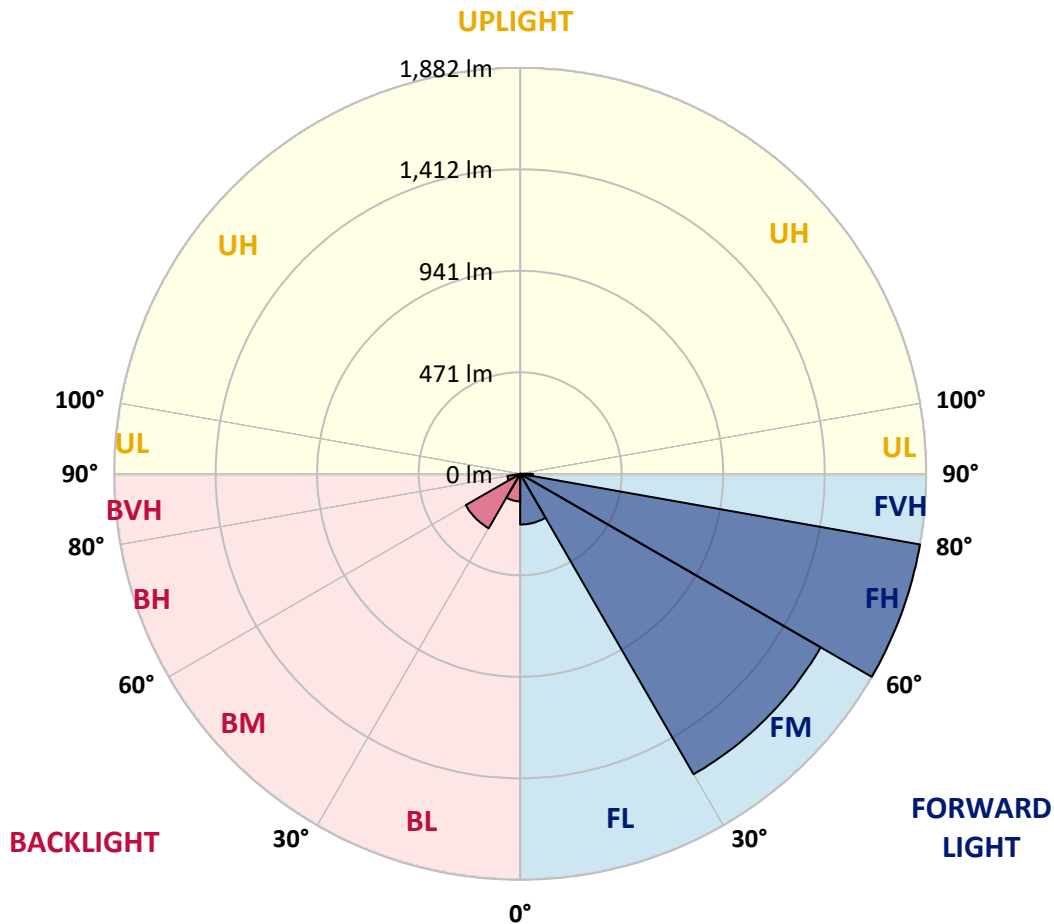
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.1	5.5			
FM (30°-60°)	1608.3	37.7			
FH (60°-80°)	1882.2	44.1			G2/5000
FVH (80°-90°)	59.4	1.4			G1/100
BL (0°-30°)	127.5	3.0	B1/500		
BM (30°-60°)	291.4	6.8	B1/1000		
BH (60°-80°)	60.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	590.6	595.6	596.6	598.1	598.1	600.0	603.1	607.5	614.7	618.5
5°	544.4	548.1	552.8	556.6	563.8	564.7	576.9	588.8	605.3	617.8
7.5°	497.8	502.2	508.5	517.5	526.9	529.7	548.1	568.1	594.4	617.8
10°	465.0	465.3	471.0	480.0	495.0	498.5	521.0	549.4	582.2	614.1
12.5°	446.6	448.8	451.3	458.1	472.5	474.7	498.8	532.2	570.0	611.9
15°	446.6	448.1	449.7	453.1	464.7	466.6	487.8	521.3	563.8	612.8
17.5°	451.3	453.8	452.5	456.6	468.8	470.0	488.8	518.1	563.5	618.8
20°	462.5	464.4	461.9	464.4	476.6	479.1	498.5	524.1	568.8	629.1
22.5°	480.3	481.3	475.3	477.2	489.7	492.8	515.3	541.0	581.6	645.6
25°	502.8	504.7	495.6	497.8	509.7	513.5	539.4	566.3	601.9	668.5
27.5°	528.8	529.7	521.9	521.6	536.9	542.2	568.5	597.5	629.1	697.2
30°	558.5	561.3	553.8	552.5	571.9	576.3	602.2	636.0	669.1	740.3
32.5°	581.9	584.1	579.7	582.8	602.5	606.0	643.1	690.3	731.9	801.6
35°	615.6	616.9	606.9	612.5	635.0	643.8	699.1	766.6	811.0	878.5
37.5°	737.8	737.8	695.3	667.5	689.1	696.9	775.6	862.5	908.5	981.6
40°	906.9	904.1	841.9	785.0	782.2	797.5	884.7	983.5	1034.4	1105.3
42.5°	1087.2	1082.8	998.2	941.9	932.5	937.8	1010.7	1132.5	1184.4	1256.3
45°	1247.2	1246.0	1168.5	1092.8	1076.0	1092.8	1167.8	1306.9	1344.1	1419.7
47.5°	1381.3	1381.3	1324.7	1275.3	1266.6	1276.6	1380.7	1500.4	1496.9	1593.8
50°	1535.7	1534.4	1480.7	1459.4	1468.5	1482.5	1625.7	1704.1	1655.0	1764.7
52.5°	1643.8	1651.3	1632.9	1629.4	1675.7	1700.0	1874.4	1903.5	1796.6	1926.9
55°	1729.4	1738.2	1759.4	1783.5	1872.5	1904.4	2115.4	2092.6	1915.1	2067.6
57.5°	1850.7	1838.2	1871.0	1918.5	2062.6	2101.0	2348.8	2271.0	2010.4	2181.6
60°	1997.9	1999.7	2005.4	2065.4	2252.2	2301.6	2578.8	2439.8	2071.6	2251.6
62.5°	2174.7	2177.6	2189.1	2281.3	2506.9	2553.5	2823.8	2577.9	2099.7	2231.9
65°	2162.6	2174.4	2303.5	2618.8	2894.1	2940.1	3109.8	2674.8	2057.2	2051.9
67.5°	1970.1	1989.4	2205.4	3022.0	3477.9	3529.2	3455.4	2693.8	1873.8	1595.7
70°	1717.5	1724.4	1984.1	3384.5	4153.9	4205.7	3764.8	2484.1	1421.9	890.0
72.5°	1341.3	1342.8	1647.5	3468.5	4520.7	4523.6	3522.0	1844.1	764.7	341.9
75°	958.2	948.8	1103.5	2812.9	3977.3	4009.2	2640.4	865.0	292.2	161.6
77.5°	513.8	524.1	624.4	1668.2	2747.6	2801.9	1440.7	249.4	148.8	110.0
80°	158.8	167.5	255.9	763.8	1556.3	1589.1	534.1	110.9	103.8	78.4
82.5°	50.0	51.9	119.4	320.9	646.0	661.0	154.7	62.8	70.9	51.9
85°	14.4	14.7	53.1	119.7	159.7	162.8	43.4	24.4	40.6	32.2
87.5°	1.6	5.0	20.0	20.0	14.1	13.8	4.7	5.3	11.6	4.1
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°
618.1	0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
621.0	2.5°	619.4	619.7	615.6	608.8	601.3	595.0	587.2	581.0	576.6	575.3
626.6	5°	623.8	621.6	610.0	589.1	564.1	542.5	518.5	499.4	486.9	481.6
632.5	7.5°	630.3	624.1	598.8	557.5	509.7	467.2	424.1	390.6	369.4	358.8
638.1	10°	636.0	623.5	580.0	511.9	438.8	374.4	316.3	275.9	253.4	242.8
644.7	12.5°	641.3	623.1	555.6	457.8	358.8	280.0	225.9	205.9	199.7	197.5
655.3	15°	651.3	624.1	525.0	395.9	279.1	211.6	191.9	191.6	192.8	192.2
671.6	17.5°	665.0	625.0	490.3	330.3	215.3	186.6	185.6	188.4	190.3	189.4
691.9	20°	682.8	628.8	453.4	265.3	185.0	180.3	182.5	185.0	186.6	185.0
719.1	22.5°	707.8	635.3	413.1	213.1	175.3	176.6	178.4	181.3	182.8	180.6
753.8	25°	738.5	645.6	373.4	185.3	170.6	172.2	175.0	178.1	180.0	177.8
797.5	27.5°	778.1	662.2	336.9	179.1	165.9	166.9	170.9	175.6	178.1	175.3
859.7	30°	835.6	689.4	305.3	181.9	163.1	160.9	166.6	173.1	175.9	173.4
944.4	32.5°	911.9	727.8	285.9	186.3	161.9	154.1	159.4	167.8	172.5	170.9
1055.0	35°	1011.9	786.3	278.4	191.3	160.9	146.9	150.6	159.7	167.8	169.4
1194.4	37.5°	1133.2	867.5	280.6	193.4	158.1	140.9	142.8	150.6	161.3	166.3
1351.3	40°	1271.0	962.2	293.1	191.3	155.0	135.9	136.3	142.2	151.6	159.1
1520.0	42.5°	1413.2	1072.8	316.3	183.1	152.2	131.6	130.6	134.7	140.9	146.3
1688.5	45°	1548.5	1186.6	339.1	171.9	148.8	127.2	125.0	126.6	127.8	130.0
1852.5	47.5°	1666.6	1266.6	332.5	161.6	144.1	122.2	118.4	117.8	114.1	113.8
1999.1	50°	1748.2	1284.1	295.3	151.3	137.2	116.6	110.6	106.9	100.3	97.2
2108.8	52.5°	1774.1	1215.0	241.3	140.9	125.9	109.1	100.6	94.7	86.6	83.8
2171.9	55°	1739.7	1079.7	192.8	128.4	110.3	99.1	89.7	81.9	75.3	71.9
2178.8	57.5°	1655.7	907.5	152.5	113.8	93.8	87.8	78.4	70.6	65.0	61.6
2102.6	60°	1516.3	720.6	120.6	96.3	80.0	75.6	65.9	60.9	55.9	51.9
1905.7	62.5°	1304.7	514.4	94.7	76.3	66.9	61.9	56.3	52.5	46.6	40.9
1551.6	65°	1018.2	314.7	73.1	55.9	53.8	51.3	47.8	44.4	37.2	31.6
1012.2	67.5°	642.2	149.1	52.2	42.2	42.5	41.3	39.7	36.9	31.6	26.6
453.4	70°	282.8	72.2	34.4	32.2	31.6	31.6	32.8	31.9	26.9	22.2
157.5	72.5°	96.3	38.8	25.6	24.4	22.8	22.5	27.5	26.6	21.6	17.2
78.4	75°	50.3	25.9	18.8	17.5	13.8	16.6	21.9	20.6	15.3	11.3
51.9	77.5°	32.8	18.4	12.8	11.3	7.8	10.9	16.3	14.4	9.1	5.6
34.1	80°	20.6	12.2	7.5	5.3	3.8	5.9	8.8	6.3	3.4	1.3
20.0	82.5°	10.9	6.3	2.8	1.9	1.6	1.9	2.2	1.6	0.6	0.0
10.3	85°	4.4	2.2	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.9	87.5°	1.6	0.3	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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180°  
618.1  
577.5  
483.5  
360.3  
243.1  
196.9  
191.9  
189.1  
184.7  
180.3  
177.5  
175.3  
173.1  
170.9  
169.4  
167.5  
161.6  
148.4  
131.3  
113.4  
97.5  
83.4  
71.9  
60.9  
50.9  
40.0  
30.6  
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21.3  
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10.3  
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