

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: P939946

Luminaire Tested: **GALN-SB2D-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

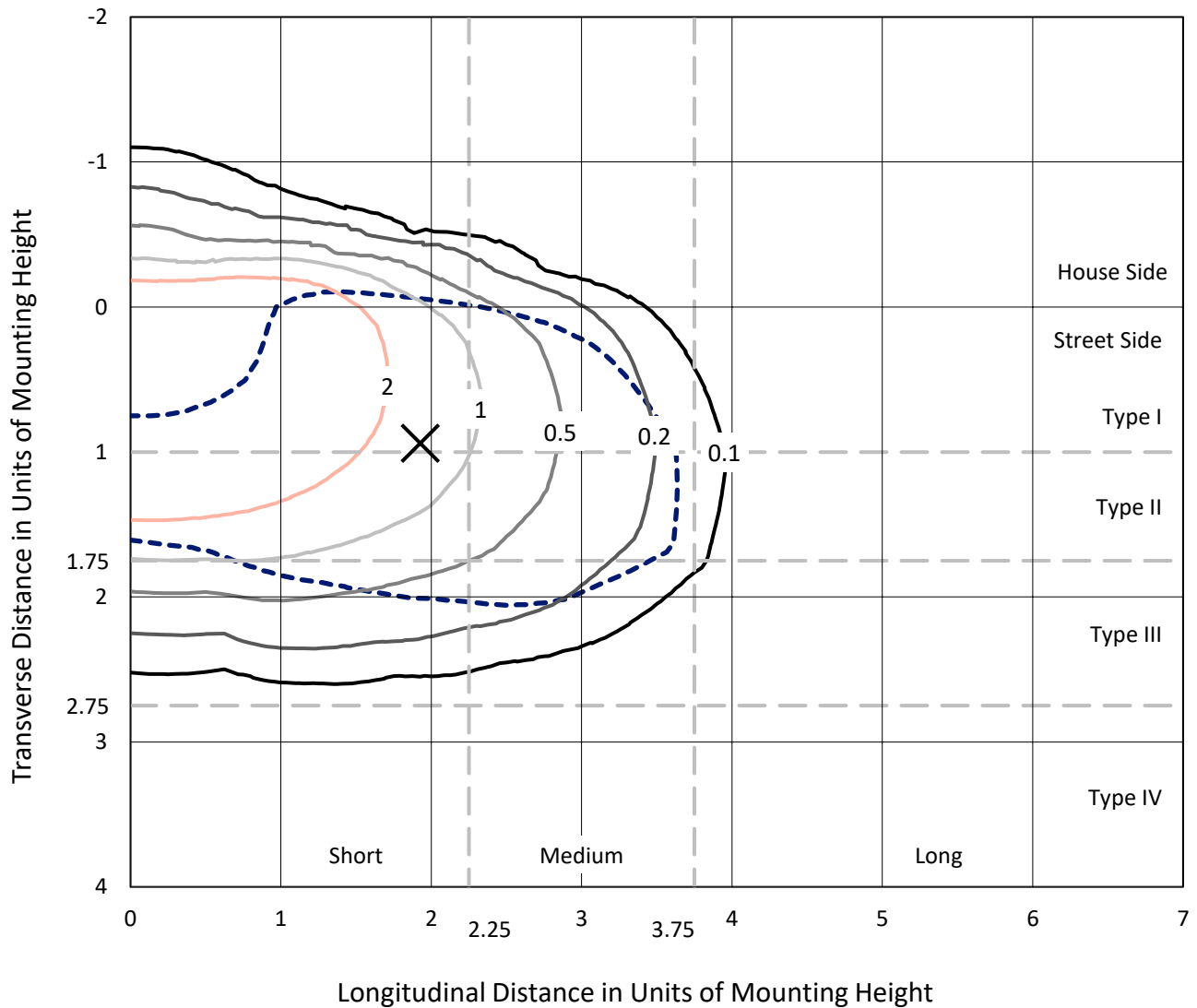
Lumens per Lamp: N/A  
Luminaire Lumens: 16885 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

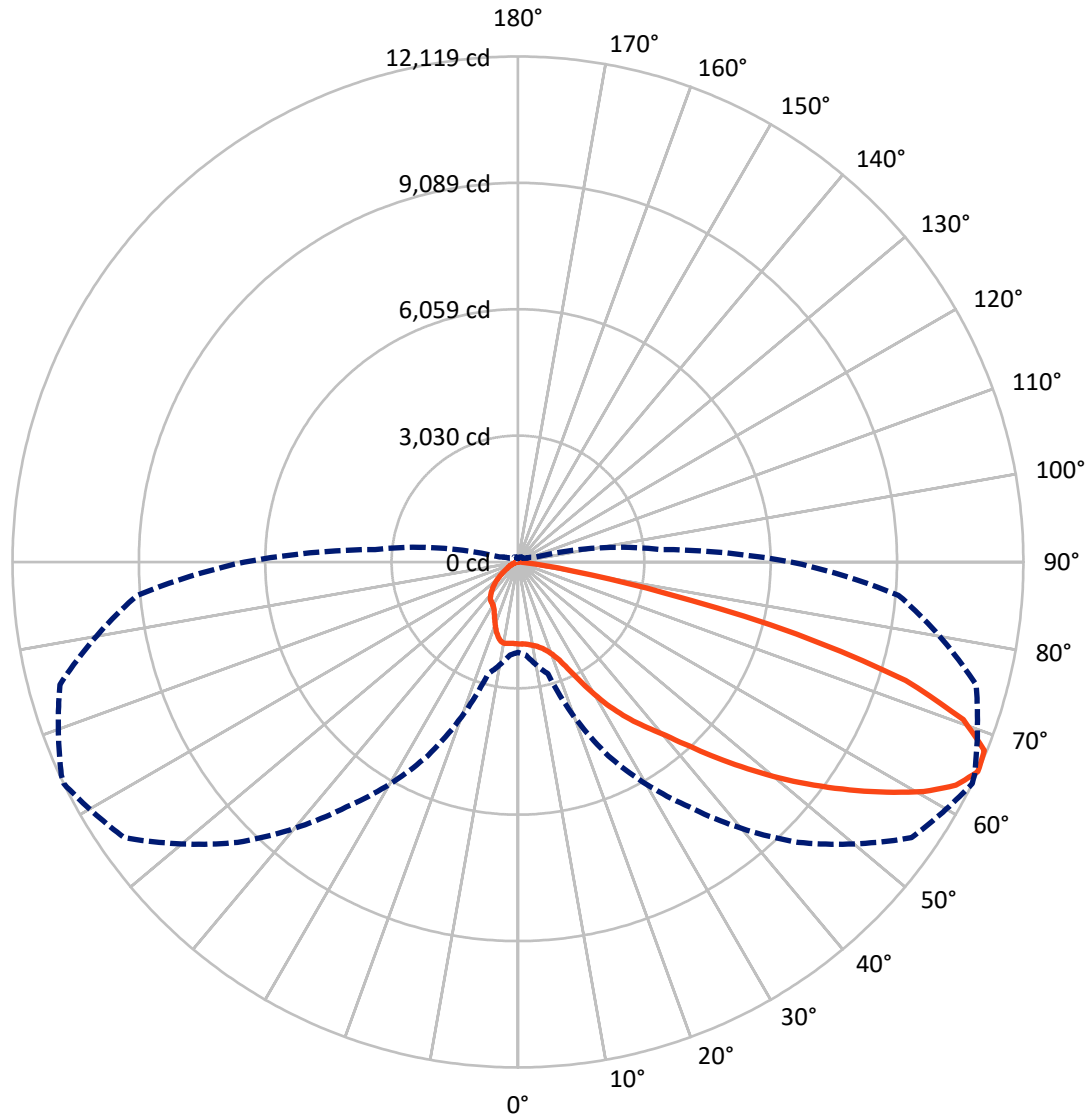
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2258.0	0.0	2258.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	14627.0	0.0	14627.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	16885.0	0.0	16885.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	1.1
10°-20°	491.4	2.9
20°-30°	931.2	5.5
30°-40°	1884.4	11.2
40°-50°	3210.0	19.0
50°-60°	4365.4	25.9
60°-70°	4099.3	24.3
70°-80°	1642.4	9.7
80°-90°	79.6	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°	16885.0	100.0
0°-180°	16885.0	100.0

**Coefficient of Utilization**



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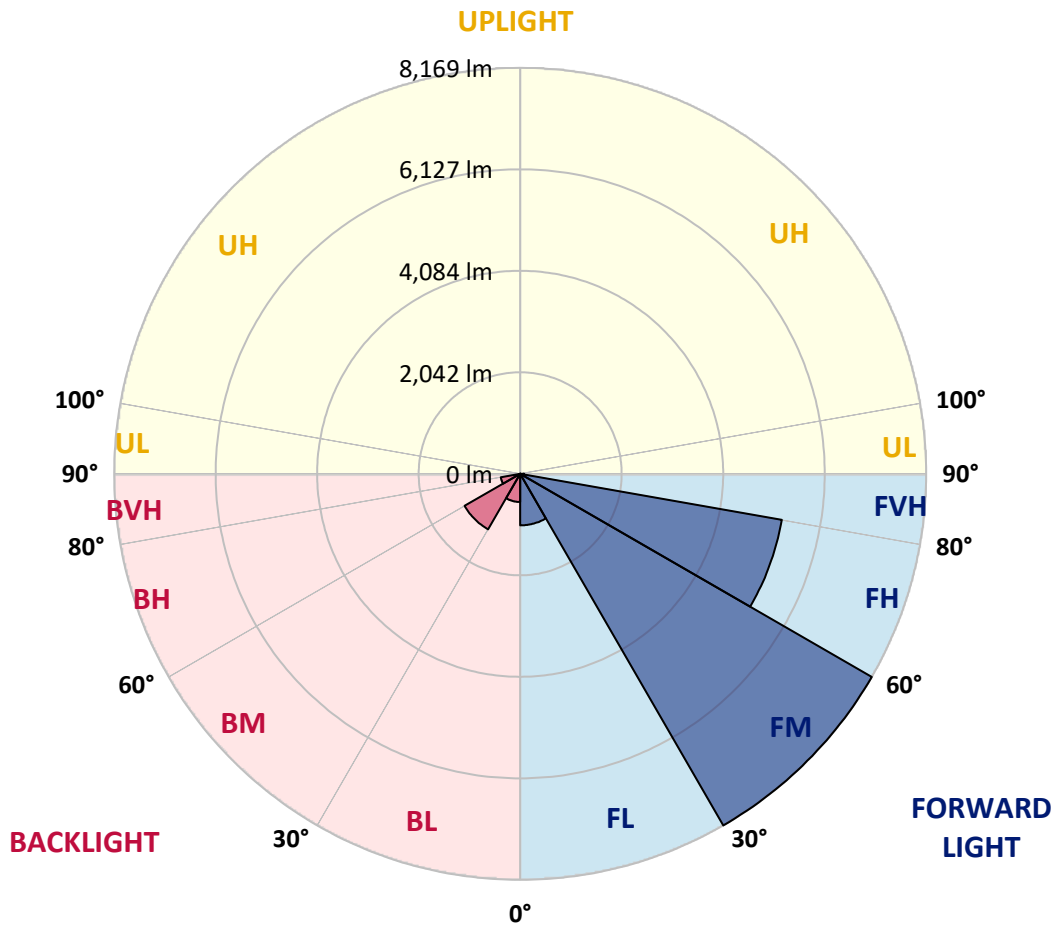
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.9	6.1			
FM (30°-60°)	8168.9	48.4			
FH (60°-80°)	5345.4	31.7			G3/7500
FVH (80°-90°)	75.7	0.4			G1/100
BL (0°-30°)	566.9	3.4	B2/1000		
BM (30°-60°)	1290.9	7.6	B2/2500		
BH (60°-80°)	396.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1957.1	1970.7	1967.3	1963.9	1962.8	1965.0	1966.2	1965.0	1965.0	1965.0
5°	1919.8	1931.1	1931.1	1939.0	1950.3	1963.9	1974.1	1976.4	1978.6	1982.0
7.5°	1848.4	1857.5	1864.3	1890.3	1918.6	1954.8	1985.4	2001.3	2003.5	2016.0
10°	1799.8	1811.1	1822.4	1849.6	1890.3	1944.7	1996.7	2035.2	2040.9	2070.3
12.5°	1797.5	1808.8	1823.5	1853.0	1900.5	1958.2	2021.6	2077.1	2087.3	2130.3
15°	1821.3	1834.9	1848.4	1884.7	1935.6	2005.8	2073.7	2142.7	2152.9	2214.1
17.5°	1870.0	1888.1	1898.2	1934.5	1988.8	2066.9	2156.3	2235.6	2244.6	2315.9
20°	1966.2	1987.7	1991.1	2020.5	2073.7	2157.5	2263.9	2362.3	2373.7	2455.2
22.5°	2165.4	2195.9	2168.8	2183.5	2231.0	2314.8	2430.3	2554.8	2570.6	2663.4
25°	2516.3	2559.3	2489.1	2464.2	2484.6	2571.7	2716.6	2874.0	2892.1	2966.8
27.5°	3205.6	3150.2	3043.8	2939.6	2878.5	2928.3	3091.3	3286.0	3308.6	3381.1
30°	3962.9	3914.2	3770.5	3539.5	3394.7	3386.7	3537.3	3754.6	3780.7	3849.7
32.5°	4721.3	4674.9	4518.7	4234.6	3983.3	3858.8	3962.9	4204.0	4217.6	4261.7
35°	5467.2	5419.7	5263.5	4972.6	4663.6	4380.6	4360.2	4631.9	4636.4	4682.8
37.5°	6217.7	6178.1	6011.7	5726.4	5422.0	5031.4	4842.4	5037.1	5042.8	5088.0
40°	6753.1	6770.1	6655.8	6435.0	6173.6	5746.8	5383.5	5468.4	5434.4	5510.2
42.5°	7212.7	7246.6	7147.0	7036.1	6884.4	6508.6	6053.6	6038.9	5984.5	6025.3
45°	7610.0	7638.3	7548.8	7522.8	7519.4	7255.7	6785.9	6697.6	6621.8	6613.9
47.5°	7756.0	7810.3	7848.8	7936.0	8105.8	7994.8	7543.2	7406.2	7321.3	7259.1
50°	7811.5	7869.2	8000.5	8254.0	8655.9	8703.4	8297.1	8143.1	8039.0	7925.8
52.5°	7736.8	7839.8	8016.3	8443.1	9026.0	9271.6	9020.4	8885.7	8766.8	8582.3
55°	7296.4	7399.4	7760.5	8440.8	9210.5	9670.1	9704.0	9644.1	9510.5	9219.6
57.5°	6368.2	6521.1	7092.7	8153.3	9207.1	10013.1	10374.2	10417.2	10267.7	9851.2
60°	5082.4	5289.5	5986.8	7516.0	8923.0	10198.7	10961.6	11176.7	11018.2	10473.8
62.5°	3546.3	3786.3	4446.2	6517.7	8273.3	10065.1	11390.6	11787.9	11667.9	11030.7
65°	2163.1	2240.1	2772.1	5128.8	7168.5	9506.0	11523.1	12118.5	12078.8	11371.4
67.5°	1440.9	1505.5	1658.3	3516.9	5564.6	8388.7	11206.1	12060.7	12072.0	11315.9
70°	868.2	923.7	1023.3	2045.4	3606.3	6639.9	10224.7	11325.0	11390.6	10574.5
72.5°	357.7	395.0	485.6	927.1	1867.7	4214.2	8142.0	9723.3	9876.1	8891.3
75°	202.6	221.9	285.2	465.2	810.5	1963.9	4931.8	6902.5	7127.8	6128.3
77.5°	134.7	143.8	184.5	301.1	456.2	670.1	2107.7	3596.1	4026.3	3347.1
80°	90.6	98.5	126.8	201.5	296.6	287.5	671.2	1332.3	1639.0	1150.0
82.5°	61.1	62.3	90.6	132.4	187.9	139.2	198.1	414.3	520.7	332.8
85°	35.1	34.0	66.8	77.0	83.8	57.7	60.0	124.5	163.0	140.4
87.5°	4.5	6.8	26.0	20.4	11.3	12.5	12.5	21.5	31.7	34.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1963.9	0°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
1966.2	2.5°	1966.2	1965.0	1961.6	1958.2	1950.3	1945.8	1948.1	1945.8	1944.7	1945.8
1980.9	5°	1980.9	1977.5	1968.4	1957.1	1941.3	1922.0	1909.6	1891.5	1874.5	1864.3
2020.5	7.5°	2020.5	2017.1	2004.7	1973.0	1922.0	1841.7	1768.1	1703.6	1654.9	1626.6
2083.9	10°	2083.9	2078.2	2059.0	1988.8	1855.2	1679.8	1533.8	1412.7	1333.4	1296.1
2158.6	12.5°	2158.6	2151.8	2117.8	1974.1	1728.5	1454.5	1253.0	1118.3	1044.8	1011.9
2244.6	15°	2246.9	2237.8	2171.0	1903.9	1544.0	1205.5	1021.0	920.3	872.7	843.3
2354.4	17.5°	2356.7	2340.8	2210.7	1798.6	1343.6	1015.3	878.4	802.5	760.7	732.4
2498.2	20°	2499.3	2473.3	2242.4	1673.0	1159.1	895.4	782.2	718.8	687.1	662.2
2701.9	22.5°	2698.5	2661.2	2280.8	1537.2	1028.9	812.7	710.9	664.4	638.4	610.1
2986.0	25°	2945.3	2901.1	2328.4	1411.5	939.5	741.4	658.8	620.3	589.7	556.9
3358.4	27.5°	3290.5	3211.3	2385.0	1308.5	862.5	680.3	611.2	568.2	533.1	506.0
3780.7	30°	3675.4	3545.2	2434.8	1246.3	792.4	623.7	549.0	506.0	473.1	453.9
4159.8	32.5°	4039.9	3863.3	2467.6	1219.1	729.0	559.2	481.1	434.7	409.8	404.1
4531.1	35°	4384.0	4150.8	2464.2	1193.1	672.4	494.7	414.3	366.7	347.5	350.9
4930.7	37.5°	4780.1	4457.5	2440.4	1152.3	626.0	435.8	356.6	314.7	297.7	298.8
5416.3	40°	5240.8	4811.8	2425.7	1075.3	575.0	381.5	309.0	275.1	262.6	258.1
5927.9	42.5°	5732.1	5154.8	2428.0	988.2	511.6	332.8	276.2	247.9	236.6	233.2
6497.3	45°	6225.6	5481.9	2431.4	897.6	444.8	295.4	252.4	228.7	221.9	217.3
7074.6	47.5°	6689.7	5760.4	2368.0	800.3	379.2	267.1	233.2	217.3	211.7	206.0
7654.1	50°	7122.1	5946.0	2215.2	687.1	327.1	244.5	218.5	207.1	201.5	195.8
8179.3	52.5°	7458.3	5975.5	1962.8	570.5	290.9	227.5	209.4	199.2	192.4	186.8
8603.8	55°	7607.7	5791.0	1603.9	461.8	262.6	212.8	200.4	190.2	182.2	176.6
8937.7	57.5°	7569.2	5402.7	1250.8	371.3	235.4	198.1	189.0	182.2	173.2	164.1
9208.3	60°	7380.2	4883.2	942.9	309.0	210.5	182.2	176.6	170.9	158.5	144.9
9312.4	62.5°	7053.1	4230.0	672.4	255.8	183.4	164.1	161.9	157.3	139.2	114.3
9158.5	65°	6552.8	3436.5	452.8	212.8	157.3	143.8	144.9	137.0	113.2	84.9
8594.8	67.5°	5821.5	2512.9	289.8	174.3	131.3	120.0	121.1	116.6	96.2	72.4
7526.2	70°	4889.9	1663.9	189.0	132.4	105.3	92.8	99.6	100.7	81.5	58.9
5776.2	72.5°	3584.8	982.5	132.4	98.5	77.0	64.5	81.5	83.8	65.7	44.1
3475.0	75°	2043.1	466.4	99.6	71.3	47.5	45.3	63.4	63.4	45.3	29.4
1504.3	77.5°	858.0	194.7	70.2	46.4	27.2	26.0	43.0	39.6	22.6	13.6
366.7	80°	247.9	87.2	37.4	22.6	11.3	10.2	17.0	12.5	5.7	2.3
139.2	82.5°	97.3	38.5	14.7	9.1	4.5	4.5	2.3	0.0	0.0	0.0
79.2	85°	57.7	15.8	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	14.7	3.4	2.3	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>
1963.9
1950.3
1866.6
1627.7
1292.7
1008.6
844.4
730.1
657.7
605.6
553.5
500.3
450.5
407.5
350.9
303.4
256.9
232.0
217.3
206.0
195.8
185.6
175.4
163.0
142.6
112.1
82.6
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