

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: P939936

Luminaire Tested: **GALN-SB2D-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939936
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 15960 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

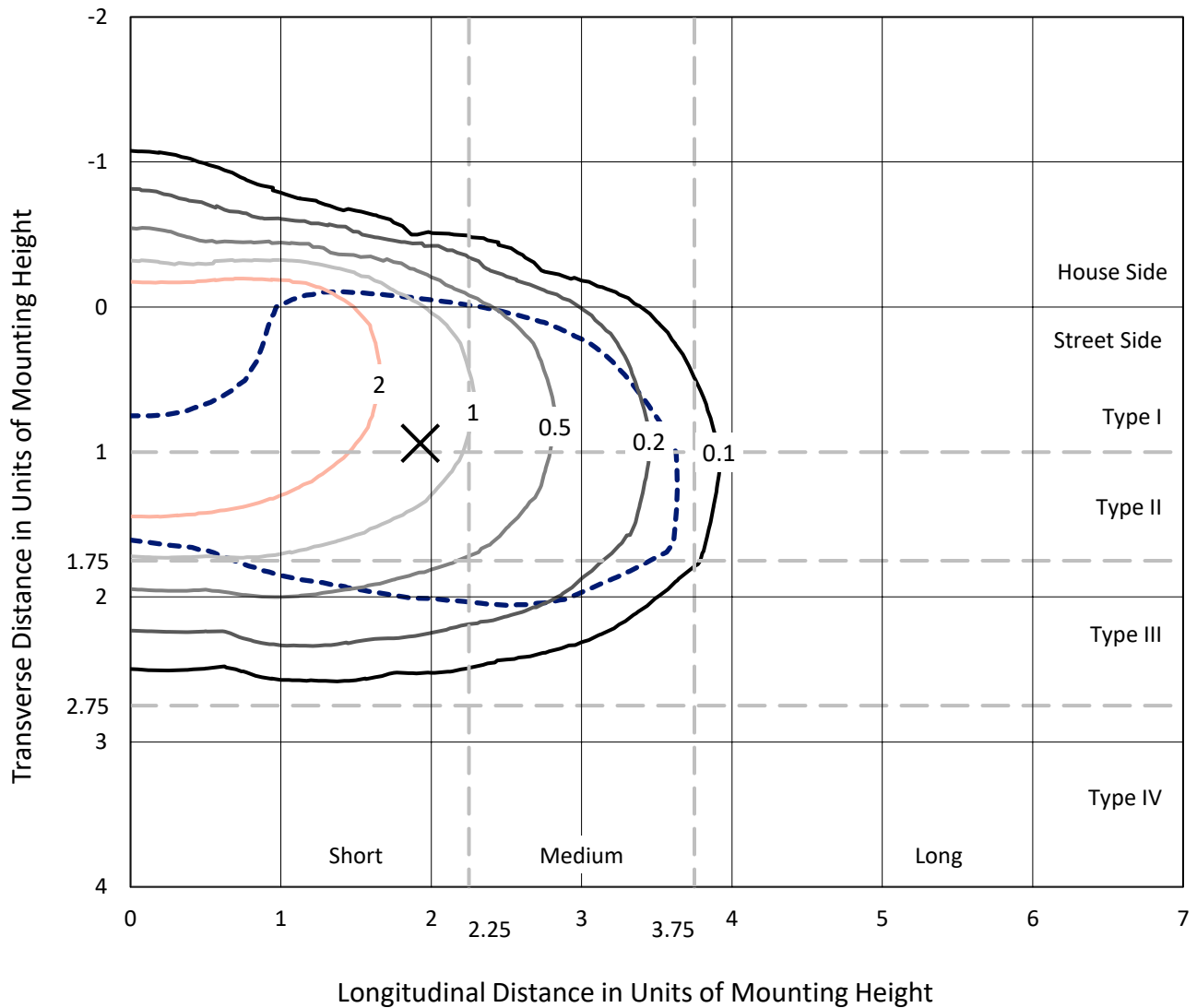
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

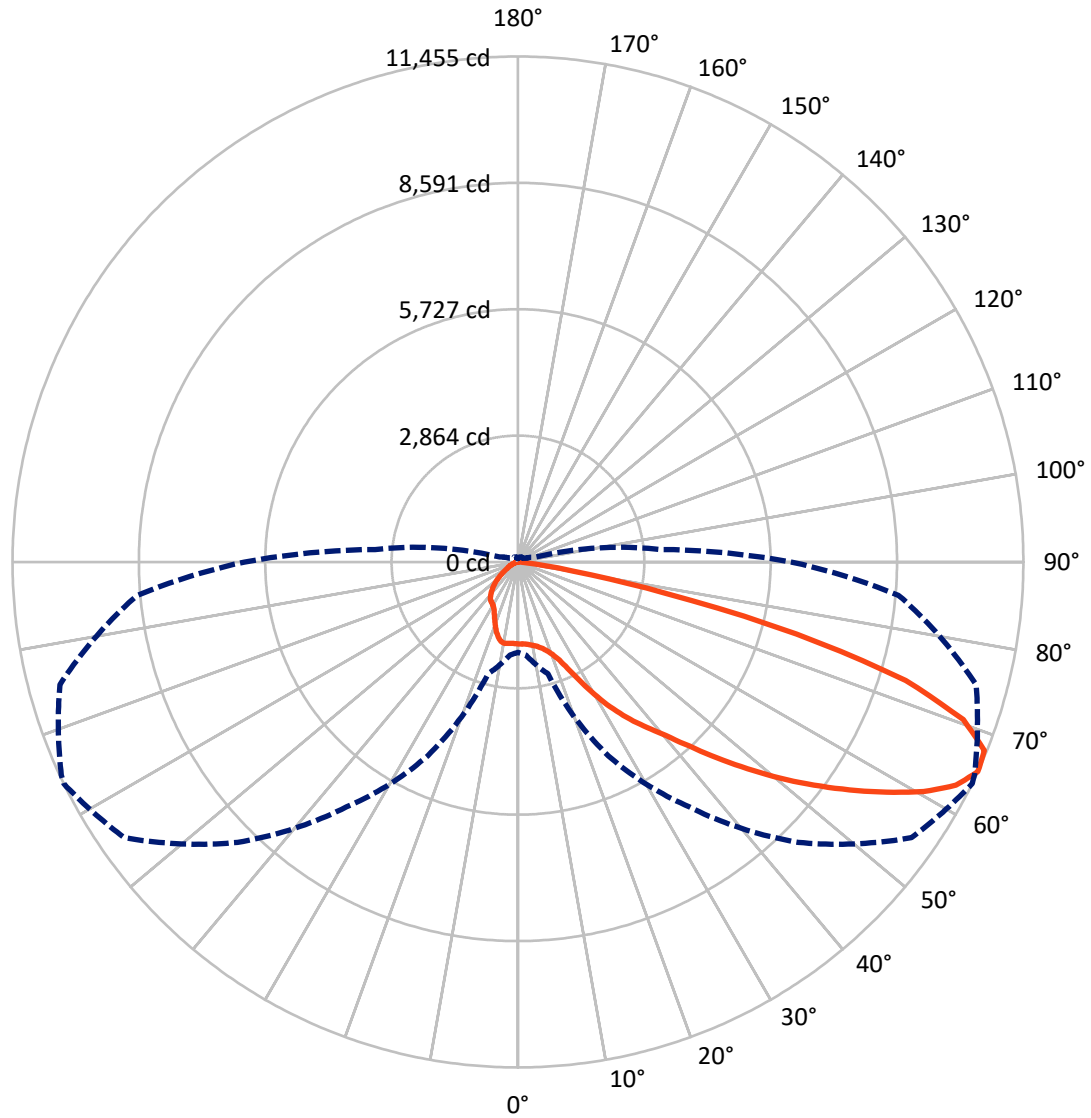
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
House Side	Lumens	2134.3	0.0	2134.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13825.7	0.0	13825.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	15960.0	0.0	15960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	1.1
10°-20°	464.5	2.9
20°-30°	880.2	5.5
30°-40°	1781.1	11.2
40°-50°	3034.2	19.0
50°-60°	4126.3	25.9
60°-70°	3874.8	24.3
70°-80°	1552.4	9.7
80°-90°	75.2	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°	15960.0	100.0
0°-180°	15960.0	100.0

Coefficient of Utilization



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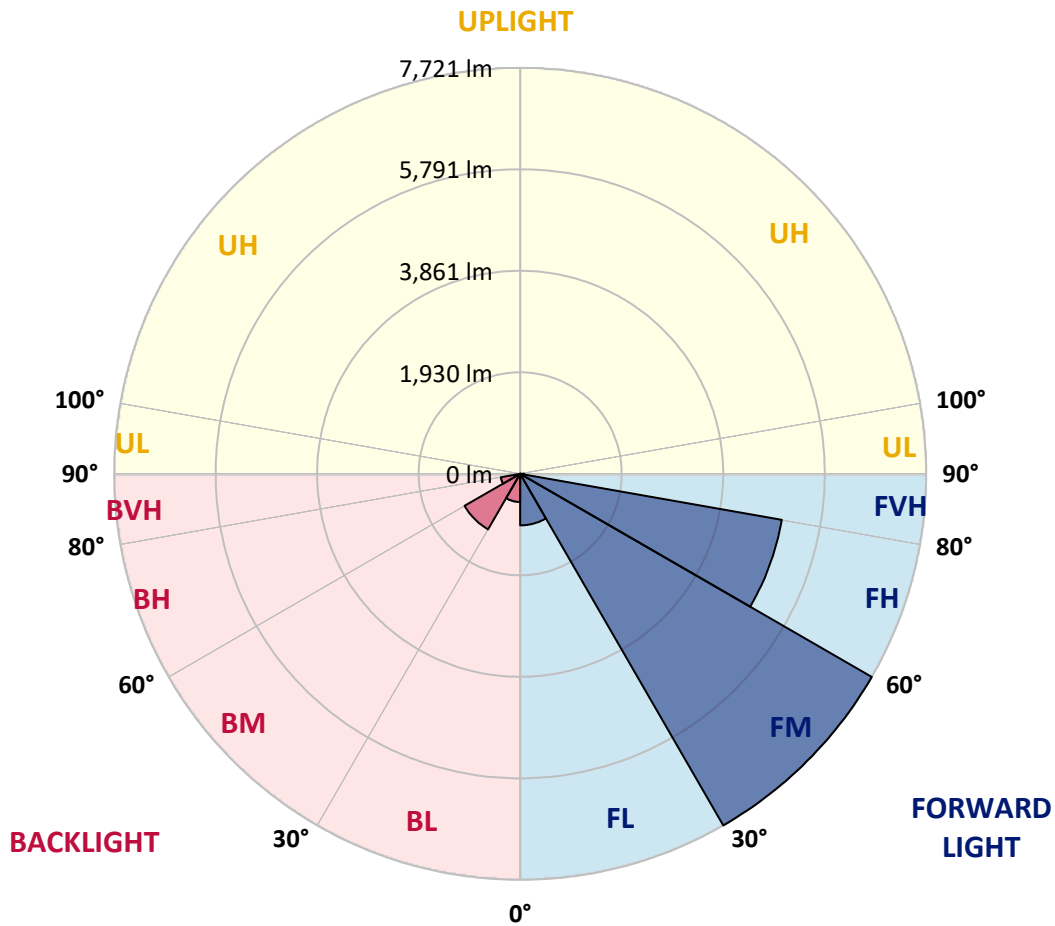
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.1	6.1			
FM (30°-60°)	7721.4	48.4			
FH (60°-80°)	5052.6	31.7			G3/7500
FVH (80°-90°)	71.5	0.4			G1/100
BL (0°-30°)	535.9	3.4	B2/1000		
BM (30°-60°)	1220.2	7.6	B2/2500		
BH (60°-80°)	374.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3
2.5°	1849.9	1862.7	1859.5	1856.3	1855.2	1857.4	1858.5	1857.4	1857.4	1857.4
5°	1814.6	1825.3	1825.3	1832.8	1843.5	1856.3	1865.9	1868.1	1870.2	1873.4
7.5°	1747.2	1755.7	1762.2	1786.8	1813.5	1847.8	1876.6	1891.6	1893.8	1905.5
10°	1701.2	1711.9	1722.6	1748.3	1786.8	1838.1	1887.3	1923.7	1929.1	1956.9
12.5°	1699.0	1709.7	1723.6	1751.5	1796.4	1851.0	1910.9	1963.3	1972.9	2013.6
15°	1721.5	1734.3	1747.2	1781.4	1829.6	1895.9	1960.1	2025.4	2035.0	2092.8
17.5°	1767.5	1784.6	1794.3	1828.5	1879.9	1953.7	2038.2	2113.1	2121.7	2189.1
20°	1858.5	1878.8	1882.0	1909.8	1960.1	2039.3	2139.8	2232.9	2243.6	2320.7
22.5°	2046.8	2075.6	2050.0	2063.9	2108.8	2188.0	2297.1	2414.8	2429.8	2517.5
25°	2378.4	2419.1	2352.8	2329.2	2348.5	2430.9	2567.8	2716.5	2733.6	2804.3
27.5°	3030.0	2977.6	2877.0	2778.6	2720.8	2767.9	2922.0	3106.0	3127.4	3195.9
30°	3745.8	3699.8	3563.9	3345.6	3208.7	3201.2	3343.5	3548.9	3573.5	3638.8
32.5°	4462.6	4418.8	4271.1	4002.6	3765.1	3647.4	3745.8	3973.7	3986.5	4028.3
35°	5167.7	5122.8	4975.1	4700.2	4408.1	4140.6	4121.3	4378.1	4382.4	4426.3
37.5°	5877.1	5839.6	5682.4	5412.7	5124.9	4755.8	4577.1	4761.2	4766.5	4809.3
40°	6383.2	6399.2	6291.1	6082.5	5835.4	5432.0	5088.5	5168.8	5136.7	5208.4
42.5°	6817.5	6849.6	6755.5	6650.6	6507.3	6152.0	5721.9	5708.0	5656.7	5695.2
45°	7193.1	7219.8	7135.3	7110.7	7107.5	6858.2	6414.2	6330.7	6259.0	6251.6
47.5°	7331.1	7382.5	7418.8	7501.2	7661.7	7556.9	7130.0	7000.5	6920.3	6861.4
50°	7383.5	7438.1	7562.2	7801.9	8181.7	8226.6	7842.5	7697.0	7598.6	7491.6
52.5°	7312.9	7410.3	7577.2	7980.5	8531.6	8763.7	8526.2	8398.9	8286.5	8112.1
55°	6896.7	6994.1	7335.4	7978.4	8706.0	9140.3	9172.4	9115.7	8989.5	8714.5
57.5°	6019.4	6163.8	6704.1	7706.6	8702.7	9464.5	9805.8	9846.5	9705.3	9311.5
60°	4803.9	4999.7	5658.8	7104.3	8434.2	9640.0	10361.1	10564.4	10414.6	9900.0
62.5°	3352.1	3578.9	4202.7	6160.6	7820.1	9513.7	10766.6	11142.2	11028.8	10426.4
65°	2044.6	2117.4	2620.2	4847.8	6775.8	8985.2	10891.8	11454.6	11417.1	10748.4
67.5°	1362.0	1423.0	1567.4	3324.2	5259.7	7929.2	10592.2	11400.0	11410.7	10696.0
70°	820.6	873.1	967.2	1933.3	3408.8	6276.2	9664.6	10704.6	10766.6	9995.2
72.5°	338.1	373.4	459.0	876.3	1765.4	3983.3	7695.9	9190.6	9335.1	8404.2
75°	191.5	209.7	269.6	439.7	766.1	1856.3	4661.6	6524.4	6737.3	5792.6
77.5°	127.3	135.9	174.4	284.6	431.2	633.4	1992.2	3399.1	3805.7	3163.8
80°	85.6	93.1	119.8	190.4	280.3	271.8	634.5	1259.3	1549.2	1087.0
82.5°	57.8	58.8	85.6	125.2	177.6	131.6	187.2	391.6	492.2	314.6
85°	33.2	32.1	63.1	72.8	79.2	54.6	56.7	117.7	154.1	132.7
87.5°	4.3	6.4	24.6	19.3	10.7	11.8	11.8	20.3	30.0	32.1
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°
1856.3	0°	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3
1858.5	2.5°	1858.5	1857.4	1854.2	1851.0	1843.5	1839.2	1841.3	1839.2	1838.1	1839.2
1872.4	5°	1872.4	1869.2	1860.6	1849.9	1834.9	1816.7	1805.0	1787.8	1771.8	1762.2
1909.8	7.5°	1909.8	1906.6	1894.8	1864.9	1816.7	1740.8	1671.2	1610.2	1564.2	1537.5
1969.7	10°	1969.7	1964.4	1946.2	1879.9	1753.6	1587.8	1449.7	1335.3	1260.4	1225.1
2040.3	12.5°	2040.3	2033.9	2001.8	1865.9	1633.8	1374.8	1184.4	1057.1	987.5	956.5
2121.7	15°	2123.8	2115.2	2052.1	1799.6	1459.4	1139.5	965.1	869.8	824.9	797.1
2225.4	17.5°	2227.6	2212.6	2089.6	1700.1	1270.0	959.7	830.3	758.6	719.0	692.2
2361.3	20°	2362.4	2337.8	2119.5	1581.3	1095.6	846.3	739.3	679.4	649.4	625.9
2553.9	22.5°	2550.7	2515.4	2155.9	1453.0	972.6	768.2	671.9	628.0	603.4	576.7
2822.5	25°	2783.9	2742.2	2200.8	1334.2	888.0	700.8	622.7	586.3	557.4	526.4
3174.5	27.5°	3110.3	3035.4	2254.3	1236.8	815.3	643.0	577.8	537.1	503.9	478.3
3573.5	30°	3474.0	3351.0	2301.4	1178.0	748.9	589.5	518.9	478.3	447.2	429.0
3932.0	32.5°	3818.5	3651.6	2332.4	1152.3	689.0	528.5	454.7	410.8	387.3	382.0
4282.9	35°	4143.8	3923.4	2329.2	1127.7	635.5	467.6	391.6	346.7	328.5	331.7
4660.6	37.5°	4518.3	4213.4	2306.8	1089.2	591.7	411.9	337.0	297.4	281.4	282.5
5119.6	40°	4953.7	4548.2	2292.8	1016.4	543.5	360.6	292.1	260.0	248.2	243.9
5603.2	42.5°	5418.1	4872.4	2295.0	934.0	483.6	314.6	261.1	234.3	223.6	220.4
6141.3	45°	5884.6	5181.6	2298.2	848.4	420.5	279.2	238.6	216.1	209.7	205.4
6687.0	47.5°	6323.2	5444.8	2238.3	756.4	358.4	252.5	220.4	205.4	200.1	194.7
7234.8	50°	6731.9	5620.3	2093.8	649.4	309.2	231.1	206.5	195.8	190.4	185.1
7731.3	52.5°	7049.7	5648.1	1855.2	539.2	275.0	215.1	197.9	188.3	181.9	176.5
8132.5	55°	7190.9	5473.7	1516.1	436.5	248.2	201.1	189.4	179.7	172.3	166.9
8448.1	57.5°	7154.6	5106.7	1182.3	350.9	222.5	187.2	178.7	172.3	163.7	155.1
8703.8	60°	6975.9	4615.6	891.2	292.1	199.0	172.3	166.9	161.6	149.8	136.9
8802.2	62.5°	6666.7	3998.3	635.5	241.8	173.3	155.1	153.0	148.7	131.6	108.1
8656.7	65°	6193.8	3248.3	428.0	201.1	148.7	135.9	136.9	129.5	107.0	80.2
8123.9	67.5°	5502.6	2375.2	273.9	164.8	124.1	113.4	114.5	110.2	90.9	68.5
7113.9	70°	4622.1	1572.8	178.7	125.2	99.5	87.7	94.2	95.2	77.0	55.6
5459.8	72.5°	3388.4	928.7	125.2	93.1	72.8	61.0	77.0	79.2	62.1	41.7
3284.7	75°	1931.2	440.8	94.2	67.4	44.9	42.8	59.9	59.9	42.8	27.8
1421.9	77.5°	811.0	184.0	66.3	43.9	25.7	24.6	40.7	37.4	21.4	12.8
346.7	80°	234.3	82.4	35.3	21.4	10.7	9.6	16.0	11.8	5.3	2.1
131.6	82.5°	92.0	36.4	13.9	8.6	4.3	4.3	2.1	0.0	0.0	0.0
74.9	85°	54.6	15.0	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
16.0	87.5°	13.9	3.2	2.1	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>
1856.3
1843.5
1764.3
1538.5
1221.9
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523.2
472.9
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385.2
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