

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: P940856

Luminaire Tested: **GALN-SB4A-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940856
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-SB4A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 350mA 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: 13487 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

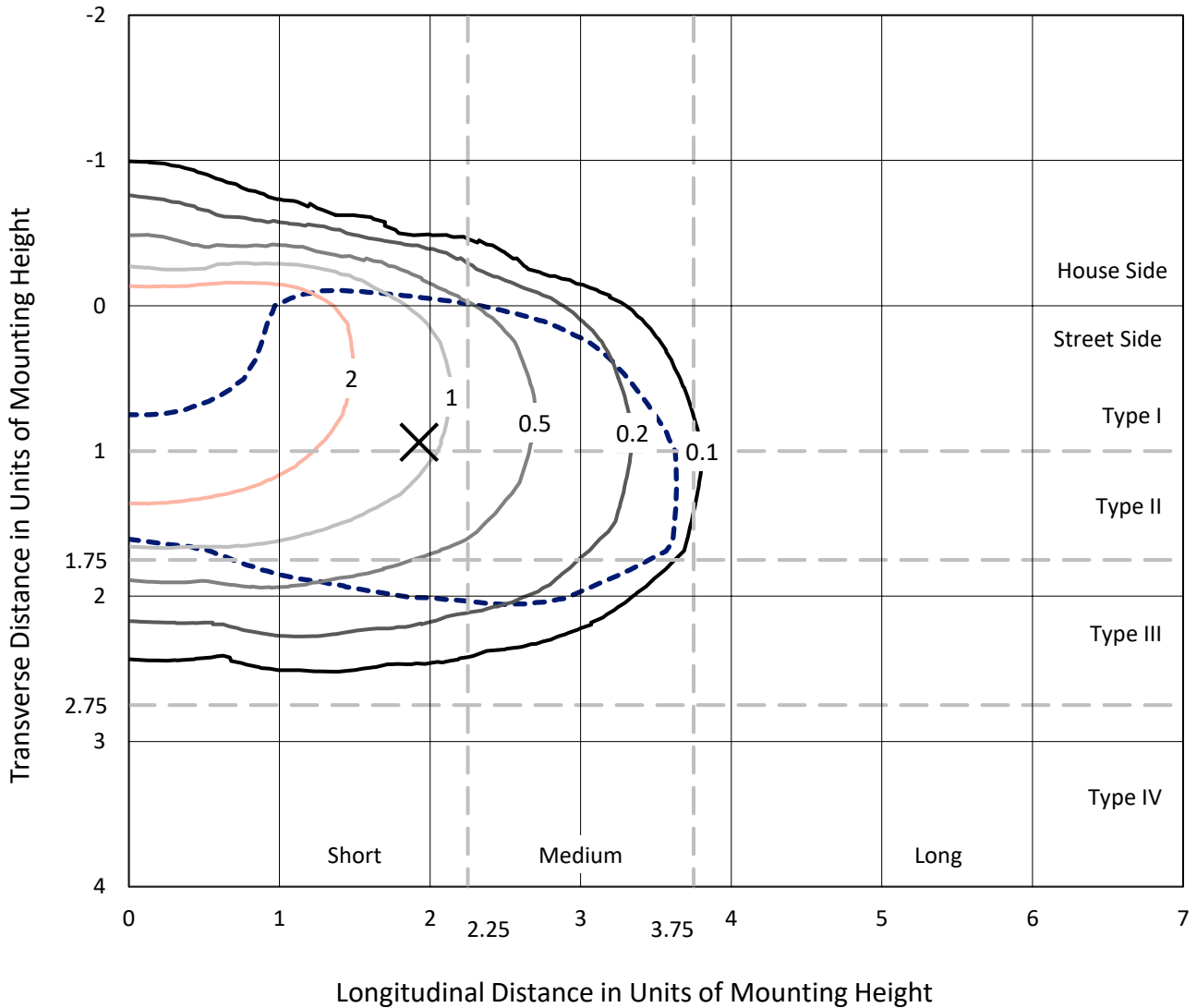
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

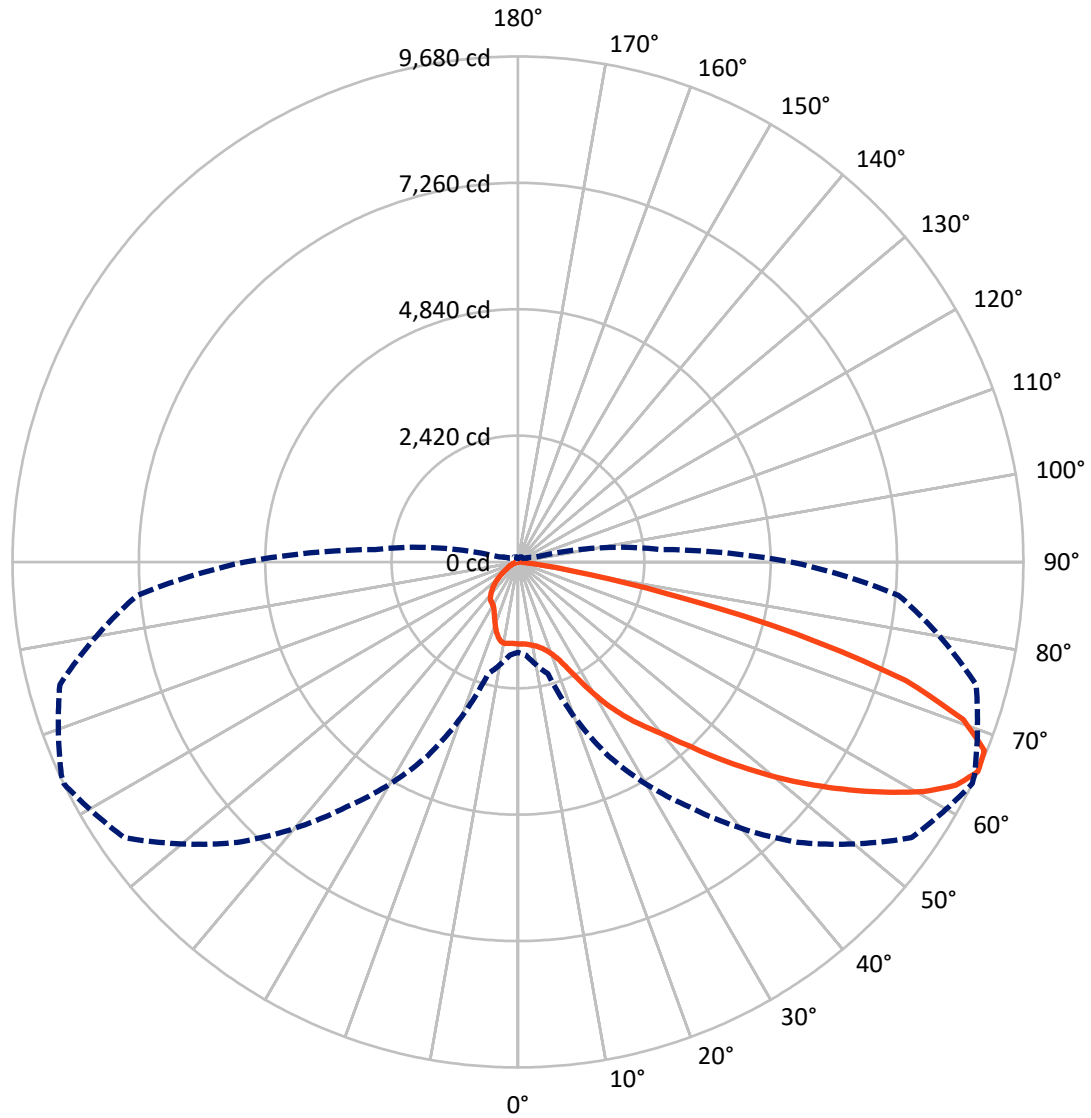
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1803.6	0.0	1803.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11683.4	0.0	11683.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	13487.0	0.0	13487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.1
10°-20°	392.5	2.9
20°-30°	743.8	5.5
30°-40°	1505.2	11.2
40°-50°	2564.0	19.0
50°-60°	3486.9	25.9
60°-70°	3274.4	24.3
70°-80°	1311.9	9.7
80°-90°	63.5	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°	13487.0	100.0
0°-180°	13487.0	100.0

Coefficient of Utilization



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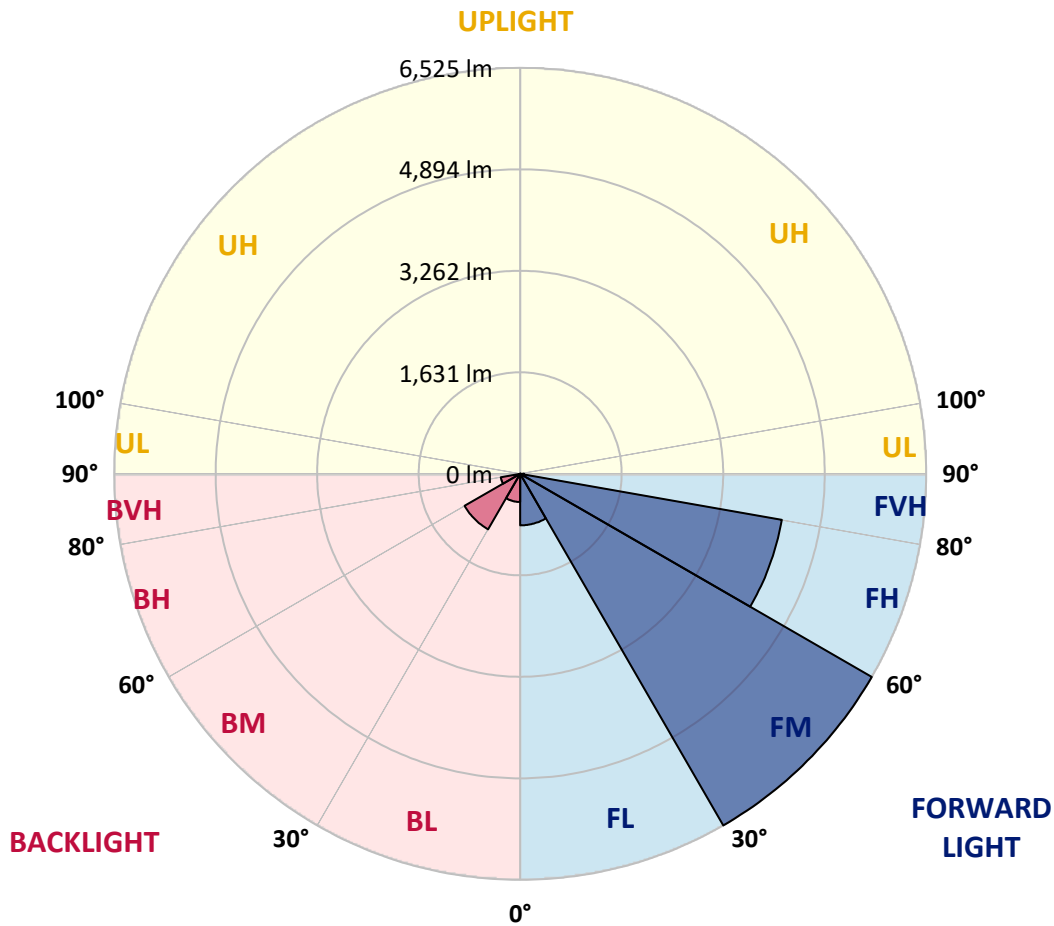
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.3	6.1			
FM (30°-60°)	6525.0	48.4			
FH (60°-80°)	4269.7	31.7			G2/5000
FVH (80°-90°)	60.4	0.4			G1/100
BL (0°-30°)	452.8	3.4	B1/500		
BM (30°-60°)	1031.1	7.6	B2/2500		
BH (60°-80°)	316.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
2.5°	1563.3	1574.1	1571.4	1568.7	1567.8	1569.6	1570.5	1569.6	1569.6	1569.6
5°	1533.4	1542.5	1542.5	1548.8	1557.8	1568.7	1576.8	1578.6	1580.4	1583.1
7.5°	1476.5	1483.7	1489.1	1509.9	1532.5	1561.4	1585.9	1598.5	1600.3	1610.3
10°	1437.6	1446.6	1455.7	1477.4	1509.9	1553.3	1594.9	1625.6	1630.2	1653.7
12.5°	1435.8	1444.8	1456.6	1480.1	1518.0	1564.2	1614.8	1659.1	1667.2	1701.6
15°	1454.8	1465.6	1476.5	1505.4	1546.1	1602.1	1656.4	1711.5	1719.7	1768.5
17.5°	1493.6	1508.1	1516.2	1545.2	1588.6	1651.0	1722.4	1785.7	1792.9	1849.9
20°	1570.5	1587.7	1590.4	1613.9	1656.4	1723.3	1808.3	1886.9	1896.0	1961.1
22.5°	1729.6	1754.0	1732.3	1744.1	1782.1	1849.0	1941.2	2040.6	2053.3	2127.4
25°	2009.9	2044.3	1988.2	1968.3	1984.6	2054.2	2169.9	2295.6	2310.1	2369.7
27.5°	2560.5	2516.2	2431.2	2348.0	2299.2	2339.0	2469.2	2624.7	2642.8	2700.7
30°	3165.4	3126.5	3011.7	2827.2	2711.5	2705.2	2825.4	2999.0	3019.8	3075.0
32.5°	3771.2	3734.1	3609.3	3382.4	3181.7	3082.2	3165.4	3358.0	3368.8	3404.1
35°	4367.0	4329.0	4204.2	3971.9	3725.0	3499.0	3482.7	3699.7	3703.3	3740.4
37.5°	4966.4	4934.8	4801.9	4574.0	4330.8	4018.9	3867.9	4023.4	4027.9	4064.1
40°	5394.1	5407.6	5316.3	5140.0	4931.2	4590.3	4300.1	4367.9	4340.8	4401.3
42.5°	5761.2	5788.3	5708.7	5620.1	5499.0	5198.8	4835.3	4823.6	4780.2	4812.7
45°	6078.5	6101.1	6029.7	6008.9	6006.2	5795.5	5420.3	5349.8	5289.2	5282.9
47.5°	6195.1	6238.5	6269.3	6338.9	6474.5	6385.9	6025.2	5915.8	5848.0	5798.2
50°	6239.5	6285.6	6390.4	6593.0	6913.9	6951.9	6627.3	6504.4	6421.2	6330.8
52.5°	6179.8	6262.1	6403.1	6744.0	7209.6	7405.8	7205.1	7097.5	7002.5	6855.2
55°	5828.1	5910.3	6198.8	6742.2	7357.0	7724.0	7751.2	7703.2	7596.6	7364.2
57.5°	5086.7	5208.7	5665.3	6512.5	7354.3	7998.0	8286.4	8320.8	8201.4	7868.7
60°	4059.6	4225.0	4782.0	6003.5	7127.3	8146.3	8755.7	8927.5	8800.9	8366.0
62.5°	2832.7	3024.3	3551.5	5206.0	6608.3	8039.6	9098.3	9415.7	9319.8	8810.8
65°	1727.8	1789.3	2214.2	4096.6	5725.9	7592.9	9204.1	9679.7	9648.0	9083.0
67.5°	1151.0	1202.5	1324.6	2809.2	4444.7	6700.6	8951.0	9633.6	9642.6	9038.7
70°	693.5	737.8	817.3	1633.8	2880.6	5303.7	8167.1	9045.9	9098.3	8446.5
72.5°	285.7	315.5	387.9	740.5	1491.8	3366.1	6503.5	7766.5	7888.6	7102.0
75°	161.8	177.2	227.8	371.6	647.4	1568.7	3939.3	5513.4	5693.4	4895.0
77.5°	107.6	114.8	147.4	240.5	364.4	535.2	1683.5	2872.4	3216.0	2673.5
80°	72.3	78.7	101.3	160.9	236.9	229.7	536.2	1064.2	1309.2	918.6
82.5°	48.8	49.7	72.3	105.8	150.1	111.2	158.2	330.9	415.9	265.8
85°	28.0	27.1	53.3	61.5	66.9	46.1	47.9	99.5	130.2	112.1
87.5°	3.6	5.4	20.8	16.3	9.0	9.9	9.9	17.2	25.3	27.1
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°
1568.7	0°	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7	1568.7
1570.5	2.5°	1570.5	1569.6	1566.9	1564.2	1557.8	1554.2	1556.0	1554.2	1553.3	1554.2
1582.2	5°	1582.2	1579.5	1572.3	1563.3	1550.6	1535.2	1525.3	1510.8	1497.3	1489.1
1613.9	7.5°	1613.9	1611.2	1601.2	1575.9	1535.2	1471.0	1412.3	1360.7	1321.8	1299.2
1664.5	10°	1664.5	1660.0	1644.6	1588.6	1481.9	1341.7	1225.1	1128.4	1065.1	1035.2
1724.2	12.5°	1724.2	1718.8	1691.6	1576.8	1380.6	1161.8	1000.9	893.3	834.5	808.3
1792.9	15°	1794.7	1787.5	1734.1	1520.8	1233.2	962.9	815.5	735.1	697.1	673.6
1880.6	17.5°	1882.4	1869.8	1765.8	1436.7	1073.2	811.0	701.6	641.0	607.6	585.0
1995.4	20°	1996.3	1975.5	1791.1	1336.3	925.8	715.2	624.8	574.1	548.8	528.9
2158.2	22.5°	2155.5	2125.6	1821.8	1227.8	821.9	649.2	567.8	530.7	509.9	487.3
2385.1	25°	2352.6	2317.3	1859.8	1127.5	750.4	592.2	526.2	495.5	471.1	444.8
2682.6	27.5°	2628.3	2565.0	1905.0	1045.2	689.0	543.4	488.2	453.9	425.8	404.1
3019.8	30°	2935.7	2831.8	1944.8	995.5	632.9	498.2	438.5	404.1	377.9	362.6
3322.7	32.5°	3226.9	3085.8	1971.0	973.8	582.3	446.6	384.3	347.2	327.3	322.8
3619.3	35°	3501.7	3315.5	1968.3	953.0	537.1	395.1	330.9	292.9	277.6	280.3
3938.4	37.5°	3818.2	3560.5	1949.3	920.4	500.0	348.1	284.8	251.4	237.8	238.7
4326.3	40°	4186.2	3843.5	1937.6	858.9	459.3	304.7	246.8	219.7	209.8	206.1
4735.0	42.5°	4578.6	4117.4	1939.4	789.3	408.7	265.8	220.6	198.0	189.0	186.3
5189.7	45°	4972.8	4378.7	1942.1	717.0	355.3	236.0	201.6	182.6	177.2	173.6
5650.9	47.5°	5343.5	4601.2	1891.5	639.2	302.9	213.4	186.3	173.6	169.1	164.6
6113.8	50°	5688.8	4749.4	1769.4	548.8	261.3	195.3	174.5	165.5	160.9	156.4
6533.3	52.5°	5957.4	4772.9	1567.8	455.7	232.4	181.7	167.3	159.1	153.7	149.2
6872.3	55°	6076.7	4625.6	1281.2	368.9	209.8	170.0	160.0	151.9	145.6	141.0
7139.1	57.5°	6046.0	4315.4	999.1	296.6	188.1	158.2	151.0	145.6	138.3	131.1
7355.2	60°	5895.0	3900.4	753.1	246.8	168.2	145.6	141.0	136.5	126.6	115.7
7438.3	62.5°	5633.7	3378.8	537.1	204.3	146.5	131.1	129.3	125.7	111.2	91.3
7315.4	65°	5234.1	2745.0	361.7	170.0	125.7	114.8	115.7	109.4	90.4	67.8
6865.1	67.5°	4650.0	2007.2	231.5	139.2	104.9	95.8	96.7	93.1	76.9	57.9
6011.6	70°	3905.9	1329.1	151.0	105.8	84.1	74.1	79.6	80.5	65.1	47.0
4613.8	72.5°	2863.4	784.8	105.8	78.7	61.5	51.5	65.1	66.9	52.4	35.3
2775.7	75°	1632.0	372.5	79.6	57.0	38.0	36.2	50.6	50.6	36.2	23.5
1201.6	77.5°	685.3	155.5	56.1	37.1	21.7	20.8	34.4	31.6	18.1	10.8
292.9	80°	198.0	69.6	29.8	18.1	9.0	8.1	13.6	9.9	4.5	1.8
111.2	82.5°	77.8	30.7	11.8	7.2	3.6	3.6	1.8	0.0	0.0	0.0
63.3	85°	46.1	12.7	5.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	11.8	2.7	1.8	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>
1568.7
1557.8
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1300.1
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583.2
525.3
483.7
442.1
399.6
359.8
325.5
280.3
242.3
205.2
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173.6
164.6
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