

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: STREETWORKS

Report Number: P848017

Luminaire Tested: **GLAN-SB4B-850-U-T3-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA 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: 15198 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

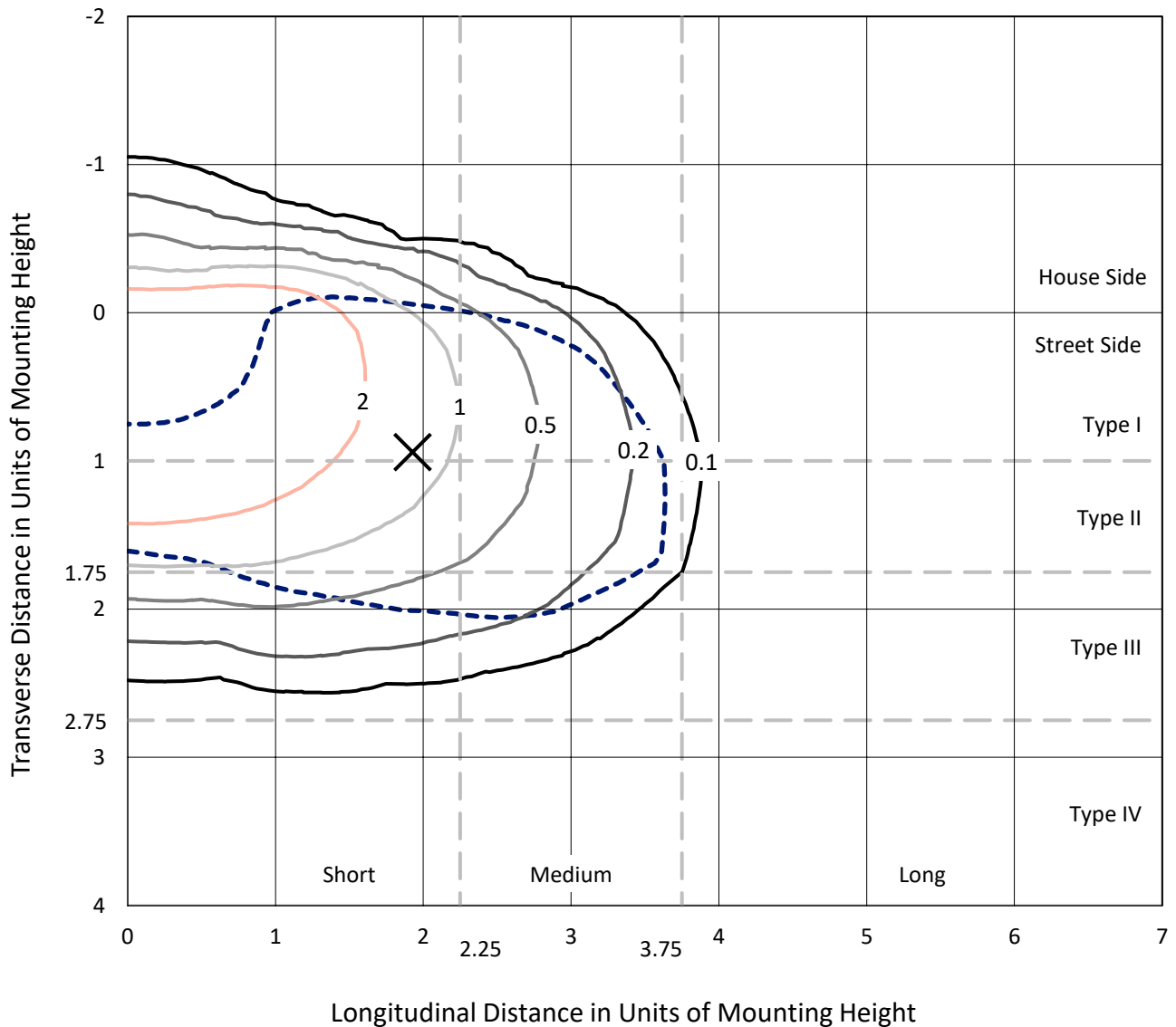
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

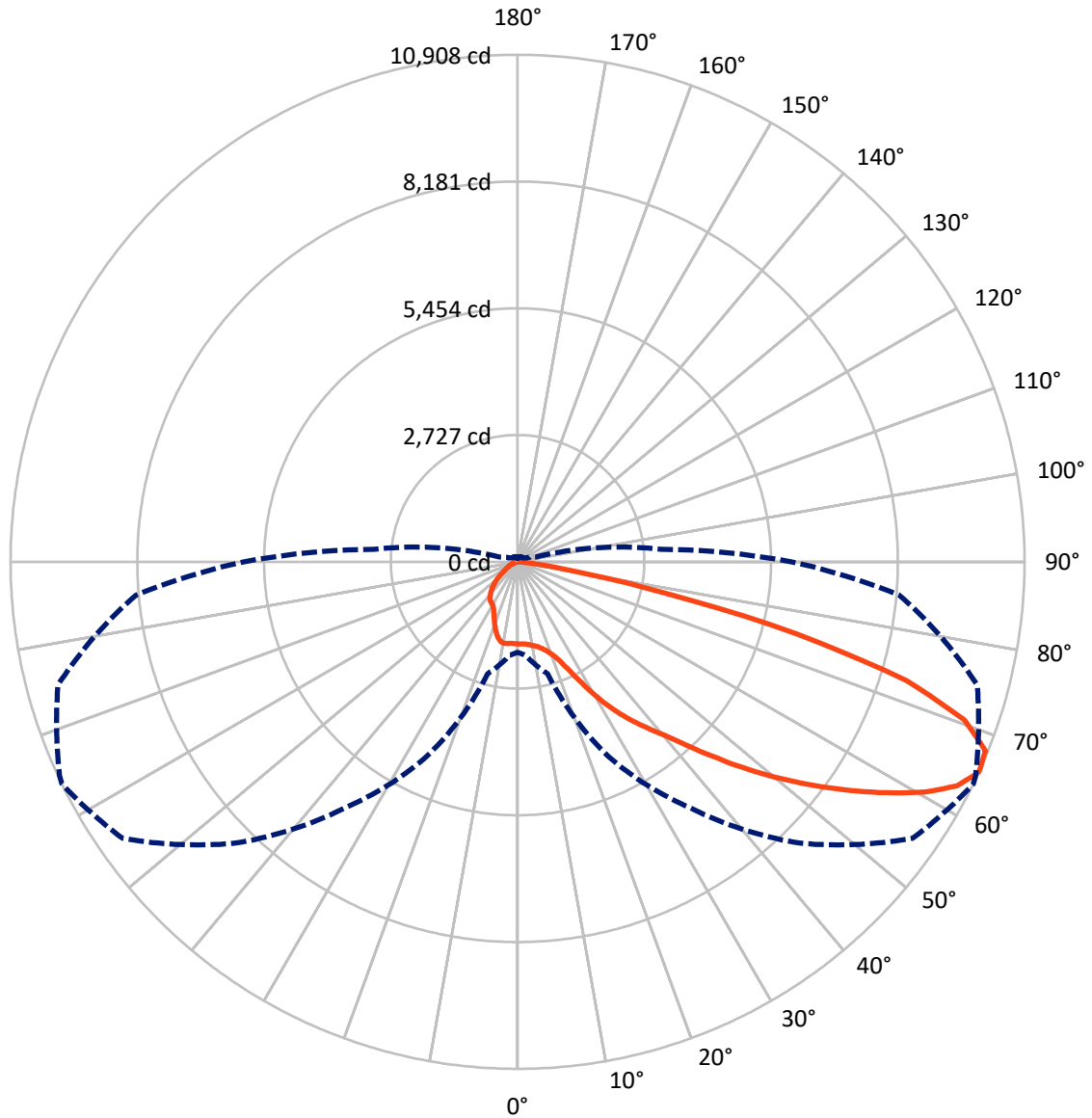
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2032.4	0.0	2032.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13165.6	0.0	13165.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	15198.0	0.0	15198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.1
10°-20°	442.3	2.9
20°-30°	838.2	5.5
30°-40°	1696.1	11.2
40°-50°	2889.3	19.0
50°-60°	3929.3	25.9
60°-70°	3689.8	24.3
70°-80°	1478.3	9.7
80°-90°	71.6	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°	15198.0	100.0
0°-180°	15198.0	100.0

**Coefficient of Utilization**



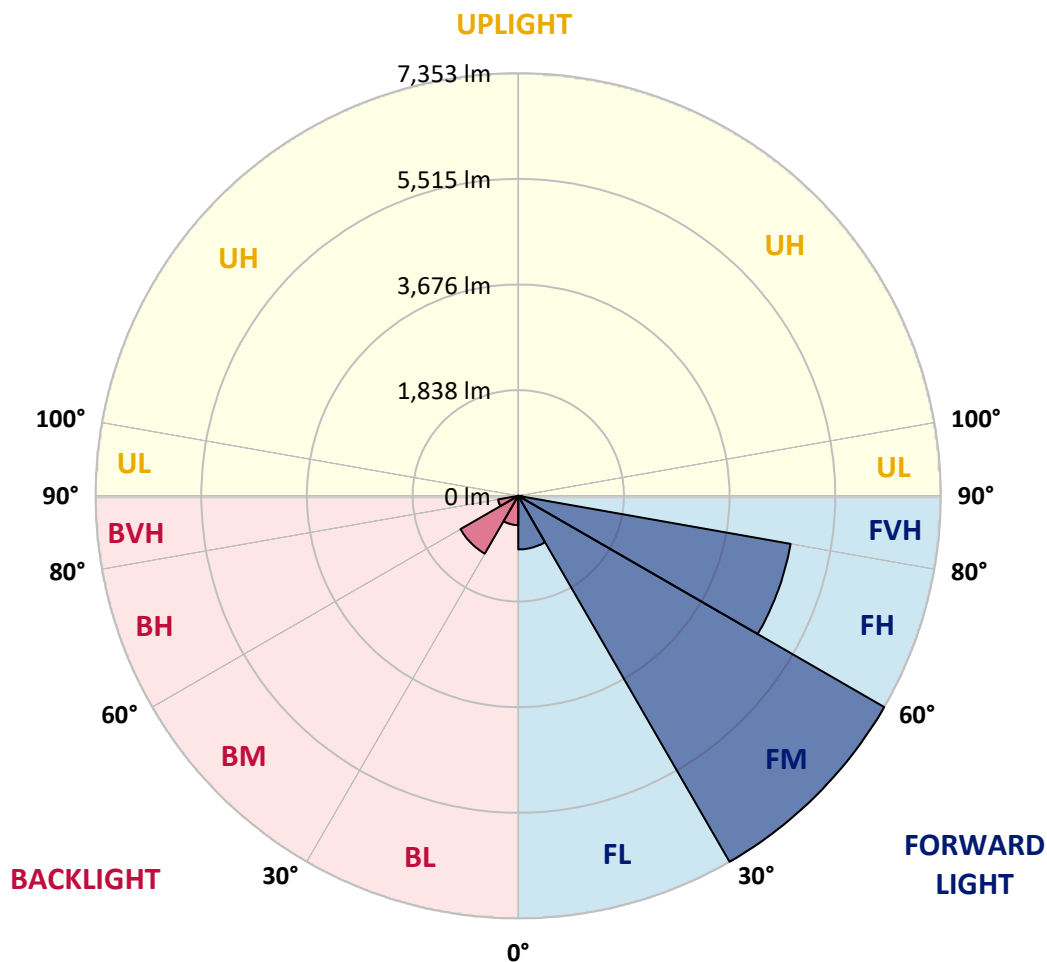
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.3	6.1			
FM (30°-60°)	7352.8	48.4			
FH (60°-80°)	4811.3	31.7			G2/5000
FVH (80°-90°)	68.1	0.4			G1/100
BL (0°-30°)	510.3	3.4	B2/1000		
BM (30°-60°)	1161.9	7.6	B2/2500		
BH (60°-80°)	356.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.5	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°	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7
2.5°	1761.6	1773.8	1770.7	1767.7	1766.7	1768.7	1769.7	1768.7	1768.7	1768.7
5°	1728.0	1738.1	1738.1	1745.3	1755.5	1767.7	1776.9	1778.9	1780.9	1784.0
7.5°	1663.8	1671.9	1678.0	1701.5	1726.9	1759.5	1787.0	1801.3	1803.3	1814.6
10°	1620.0	1630.1	1640.3	1664.8	1701.5	1750.4	1797.2	1831.9	1837.0	1863.5
12.5°	1617.9	1628.1	1641.3	1667.8	1710.6	1762.6	1819.6	1869.6	1878.7	1917.5
15°	1639.3	1651.5	1663.8	1696.4	1742.2	1805.4	1866.5	1928.7	1937.8	1992.8
17.5°	1683.1	1699.4	1708.6	1741.2	1790.1	1860.4	1940.9	2012.2	2020.4	2084.5
20°	1769.7	1789.1	1792.1	1818.6	1866.5	1941.9	2037.7	2126.3	2136.5	2209.9
22.5°	1949.0	1976.5	1952.1	1965.3	2008.1	2083.5	2187.4	2299.5	2313.8	2397.3
25°	2264.9	2303.6	2240.4	2218.0	2236.4	2314.8	2445.2	2586.8	2603.1	2670.4
27.5°	2885.4	2835.4	2739.7	2645.9	2590.9	2635.7	2782.4	2957.7	2978.1	3043.3
30°	3567.0	3523.1	3393.8	3185.9	3055.5	3048.4	3183.9	3379.5	3402.9	3465.1
32.5°	4249.6	4207.8	4067.2	3811.5	3585.3	3473.2	3567.0	3784.0	3796.2	3835.9
35°	4921.0	4878.2	4737.6	4475.8	4197.6	3942.9	3924.6	4169.1	4173.2	4214.9
37.5°	5596.5	5560.8	5411.1	5154.3	4880.2	4528.7	4358.6	4533.8	4538.9	4579.7
40°	6078.4	6093.7	5990.8	5792.1	5556.7	5172.6	4845.6	4922.0	4891.4	4959.7
42.5°	6492.0	6522.6	6432.9	6333.1	6196.6	5858.3	5448.7	5435.5	5386.6	5423.3
45°	6849.7	6875.1	6794.6	6771.2	6768.1	6530.8	6107.9	6028.5	5960.2	5953.1
47.5°	6981.1	7030.0	7064.6	7143.1	7295.9	7196.1	6789.5	6666.3	6589.8	6533.8
50°	7031.0	7083.0	7201.2	7429.4	7791.1	7833.9	7468.1	7329.5	7235.8	7133.9
52.5°	6963.8	7056.5	7215.4	7599.5	8124.2	8345.3	8119.1	7997.9	7890.9	7724.8
55°	6567.4	6660.1	6985.2	7597.5	8290.3	8703.9	8734.5	8680.5	8560.3	8298.4
57.5°	5732.0	5869.5	6384.0	7338.7	8287.2	9012.6	9337.7	9376.4	9241.9	8867.0
60°	4574.6	4761.0	5388.6	6765.1	8031.5	9179.7	9866.4	10060.0	9917.4	9427.3
62.5°	3192.0	3408.0	4002.0	5866.5	7446.7	9059.5	10252.6	10610.2	10502.2	9928.6
65°	1947.0	2016.3	2495.1	4616.4	6452.3	8556.2	10371.8	10907.7	10872.0	10235.3
67.5°	1297.0	1355.1	1492.6	3165.5	5008.6	7550.6	10086.5	10855.7	10865.9	10185.3
70°	781.4	831.4	921.0	1841.0	3246.0	5976.5	9203.2	10193.5	10252.6	9518.0
72.5°	322.0	355.6	437.1	834.4	1681.1	3793.1	7328.5	8751.8	8889.4	8003.0
75°	182.4	199.7	256.7	418.7	729.5	1767.7	4439.1	6212.9	6415.6	5516.0
77.5°	121.2	129.4	166.1	271.0	410.6	603.2	1897.1	3236.9	3624.0	3012.7
80°	81.5	88.6	114.1	181.4	266.9	258.8	604.2	1199.2	1475.3	1035.1
82.5°	55.0	56.0	81.5	119.2	169.1	125.3	178.3	372.9	468.7	299.5
85°	31.6	30.6	60.1	69.3	75.4	52.0	54.0	112.1	146.7	126.3
87.5°	4.1	6.1	23.4	18.3	10.2	11.2	11.2	19.4	28.5	30.6
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°
1767.7	0°	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7	1767.7
1769.7	2.5°	1769.7	1768.7	1765.6	1762.6	1755.5	1751.4	1753.4	1751.4	1750.4	1751.4
1783.0	5°	1783.0	1779.9	1771.8	1761.6	1747.3	1730.0	1718.8	1702.5	1687.2	1678.0
1818.6	7.5°	1818.6	1815.6	1804.4	1775.8	1730.0	1657.7	1591.4	1533.4	1489.5	1464.1
1875.7	10°	1875.7	1870.6	1853.3	1790.1	1669.9	1512.0	1380.5	1271.5	1200.2	1166.6
1942.9	12.5°	1942.9	1936.8	1906.2	1776.9	1555.8	1309.2	1127.9	1006.6	940.4	910.8
2020.4	15°	2022.4	2014.2	1954.1	1713.7	1389.7	1085.1	919.0	828.3	785.5	759.0
2119.2	17.5°	2121.2	2107.0	1989.8	1618.9	1209.4	913.9	790.6	722.4	684.7	659.2
2248.6	20°	2249.6	2226.2	2018.3	1505.8	1043.3	805.9	704.0	647.0	618.4	596.0
2432.0	22.5°	2428.9	2395.3	2053.0	1383.6	926.1	731.5	639.8	598.1	574.6	549.2
2687.7	25°	2651.0	2611.3	2095.8	1270.5	845.6	667.3	593.0	558.3	530.8	501.3
3022.9	27.5°	2961.8	2890.4	2146.7	1177.8	776.4	612.3	550.2	511.5	479.9	455.4
3402.9	30°	3308.2	3191.0	2191.5	1121.7	713.2	561.4	494.1	455.4	425.9	408.6
3744.2	32.5°	3636.2	3477.3	2221.1	1097.3	656.1	503.3	433.0	391.2	368.8	363.7
4078.4	35°	3946.0	3736.1	2218.0	1073.9	605.2	445.2	372.9	330.1	312.8	315.8
4438.1	37.5°	4302.6	4012.2	2196.6	1037.2	563.4	392.3	320.9	283.2	268.0	269.0
4875.1	40°	4717.2	4331.1	2183.4	967.9	517.6	343.3	278.1	247.6	236.4	232.3
5335.7	42.5°	5159.4	4639.8	2185.4	889.4	460.5	299.5	248.6	223.1	212.9	209.9
5848.1	45°	5603.6	4934.2	2188.5	807.9	400.4	265.9	227.2	205.8	199.7	195.6
6367.7	47.5°	6021.3	5184.9	2131.4	720.3	341.3	240.4	209.9	195.6	190.5	185.4
6889.4	50°	6410.5	5352.0	1993.9	618.4	294.4	220.1	196.6	186.4	181.4	176.3
7362.1	52.5°	6713.1	5378.4	1766.7	513.5	261.8	204.8	188.5	179.3	173.2	168.1
7744.2	55°	6847.6	5212.4	1443.7	415.7	236.4	191.5	180.3	171.2	164.0	158.9
8044.8	57.5°	6813.0	4862.9	1125.8	334.2	211.9	178.3	170.1	164.0	155.9	147.7
8288.3	60°	6642.8	4395.3	848.7	278.1	189.5	164.0	158.9	153.8	142.6	130.4
8382.0	62.5°	6348.4	3807.4	605.2	230.3	165.1	147.7	145.7	141.6	125.3	102.9
8243.4	65°	5898.1	3093.2	407.5	191.5	141.6	129.4	130.4	123.3	101.9	76.4
7736.0	67.5°	5239.9	2261.8	260.8	156.9	118.2	108.0	109.0	104.9	86.6	65.2
6774.3	70°	4401.4	1497.7	170.1	119.2	94.8	83.5	89.7	90.7	73.4	53.0
5199.1	72.5°	3226.7	884.4	119.2	88.6	69.3	58.1	73.4	75.4	59.1	39.7
3127.8	75°	1839.0	419.8	89.7	64.2	42.8	40.8	57.1	57.1	40.8	26.5
1354.0	77.5°	772.3	175.2	63.2	41.8	24.5	23.4	38.7	35.7	20.4	12.2
330.1	80°	223.1	78.5	33.6	20.4	10.2	9.2	15.3	11.2	5.1	2.0
125.3	82.5°	87.6	34.6	13.2	8.2	4.1	4.1	2.0	0.0	0.0	0.0
71.3	85°	52.0	14.3	6.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.3	87.5°	13.2	3.1	2.0	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°
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1767.7
1755.5
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405.5
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