

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: P848527

Luminaire Tested: **GLAN-SB5A-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848527
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-SB5A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 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: 15259 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

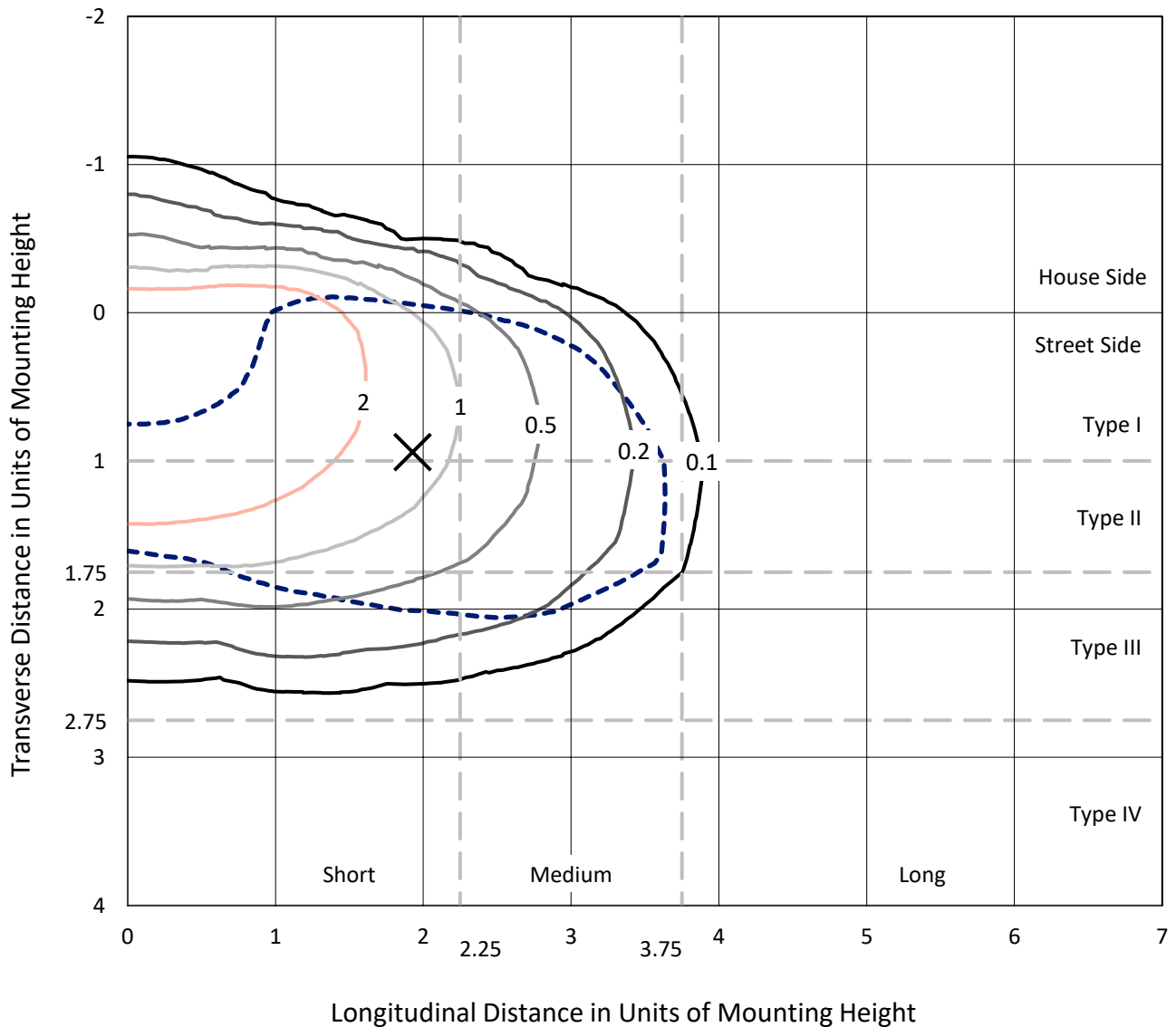
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

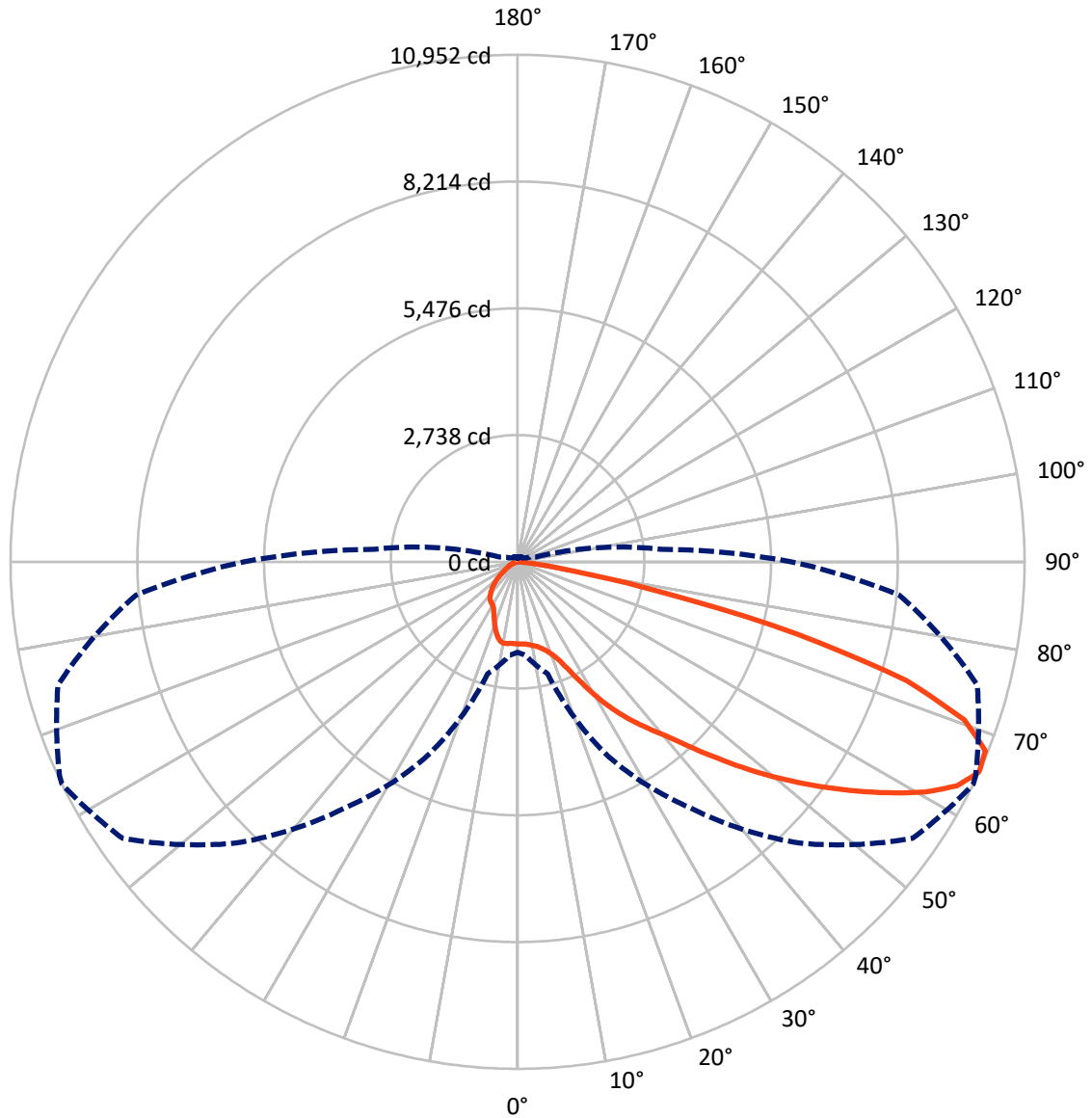
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2040.6	0.0	2040.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13218.4	0.0	13218.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	15259.0	0.0	15259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.1
10°-20°	444.1	2.9
20°-30°	841.6	5.5
30°-40°	1702.9	11.2
40°-50°	2900.9	19.0
50°-60°	3945.0	25.9
60°-70°	3704.6	24.3
70°-80°	1484.2	9.7
80°-90°	71.9	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°	15259.0	100.0
0°-180°	15259.0	100.0

Coefficient of Utilization



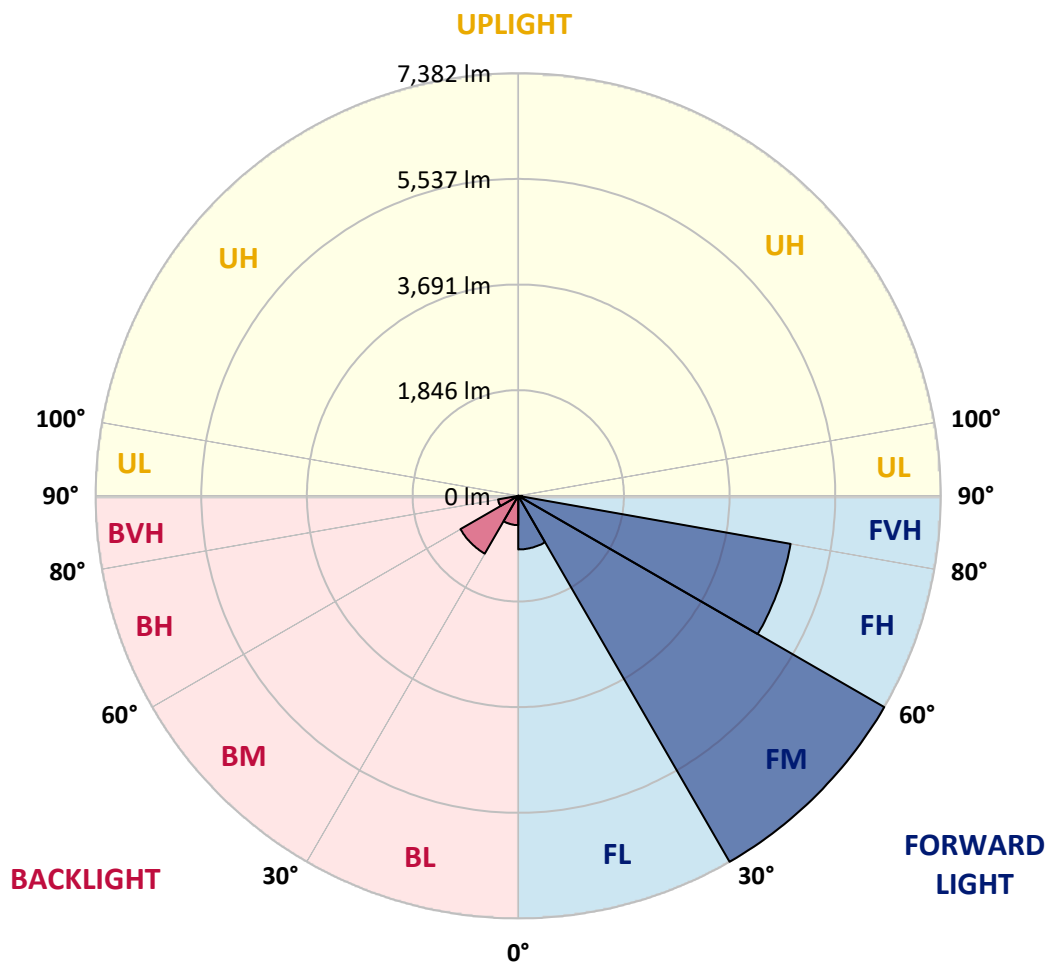
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.1	6.1			
FM (30°-60°)	7382.3	48.4			
FH (60°-80°)	4830.6	31.7			G2/5000
FVH (80°-90°)	68.4	0.4			G1/100
BL (0°-30°)	512.3	3.4	B2/1000		
BM (30°-60°)	1166.6	7.6	B2/2500		
BH (60°-80°)	358.2	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°	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8
2.5°	1768.6	1780.9	1777.8	1774.8	1773.8	1775.8	1776.8	1775.8	1775.8	1775.8
5°	1734.9	1745.1	1745.1	1752.3	1762.5	1774.8	1784.0	1786.0	1788.1	1791.1
7.5°	1670.4	1678.6	1684.8	1708.3	1733.9	1766.6	1794.2	1808.5	1810.6	1821.8
10°	1626.5	1636.7	1646.9	1671.5	1708.3	1757.4	1804.4	1839.2	1844.3	1870.9
12.5°	1624.4	1634.6	1647.9	1674.5	1717.5	1769.7	1826.9	1877.1	1886.3	1925.2
15°	1645.9	1658.2	1670.4	1703.2	1749.2	1812.6	1874.0	1936.4	1945.6	2000.8
17.5°	1689.9	1706.2	1715.5	1748.2	1797.3	1867.9	1948.7	2020.3	2028.5	2092.9
20°	1776.8	1796.3	1799.3	1825.9	1874.0	1949.7	2045.9	2134.9	2145.1	2218.7
22.5°	1956.9	1984.5	1959.9	1973.2	2016.2	2091.9	2196.2	2308.7	2323.1	2406.9
25°	2274.0	2312.8	2249.4	2226.9	2245.3	2324.1	2455.0	2597.2	2613.6	2681.1
27.5°	2896.9	2846.8	2750.7	2656.5	2601.3	2646.3	2793.6	2969.6	2990.0	3055.5
30°	3581.3	3537.3	3407.4	3198.7	3067.8	3060.6	3196.7	3393.1	3416.6	3479.0
32.5°	4266.6	4224.7	4083.5	3826.8	3599.7	3487.2	3581.3	3799.2	3811.4	3851.3
35°	4940.7	4897.8	4756.6	4493.7	4214.5	3958.7	3940.3	4185.8	4189.9	4231.9
37.5°	5618.9	5583.1	5432.8	5175.0	4899.8	4546.9	4376.1	4552.0	4557.1	4598.1
40°	6102.8	6118.1	6014.8	5815.3	5579.0	5193.4	4865.0	4941.8	4911.1	4979.6
42.5°	6518.1	6548.8	6458.8	6358.5	6221.4	5881.8	5470.6	5457.3	5408.2	5445.0
45°	6877.1	6902.7	6821.9	6798.4	6795.3	6557.0	6132.5	6052.7	5984.1	5977.0
47.5°	7009.1	7058.2	7093.0	7171.7	7325.2	7224.9	6816.8	6693.0	6616.3	6560.0
50°	7059.2	7111.4	7230.1	7459.2	7822.3	7865.3	7498.1	7358.9	7264.8	7162.5
52.5°	6991.7	7084.8	7244.4	7630.0	8156.8	8378.8	8151.7	8030.0	7922.6	7755.8
55°	6593.8	6686.9	7013.2	7628.0	8323.6	8738.9	8769.6	8715.3	8594.6	8331.7
57.5°	5755.0	5893.1	6409.7	7368.2	8320.5	9048.8	9375.1	9414.0	9279.0	8902.5
60°	4592.9	4780.1	5410.3	6792.2	8063.7	9216.6	9906.0	10100.4	9957.2	9465.2
62.5°	3204.8	3421.7	4018.1	5890.0	7476.6	9095.9	10293.7	10652.8	10544.3	9968.4
65°	1954.8	2024.4	2505.2	4634.9	6478.2	8590.5	10413.4	10951.5	10915.7	10276.3
67.5°	1302.2	1360.5	1498.6	3178.2	5028.7	7580.9	10127.0	10899.3	10909.5	10226.2
70°	784.6	834.7	924.7	1848.4	3259.0	6000.5	9240.1	10234.4	10293.7	9556.2
72.5°	323.2	357.0	438.8	837.8	1687.8	3808.4	7357.9	8787.0	8925.0	8035.1
75°	183.1	200.5	257.8	420.4	732.4	1774.8	4456.9	6237.8	6441.4	5538.1
77.5°	121.7	129.9	166.7	272.1	412.2	605.6	1904.7	3249.8	3638.6	3024.8
80°	81.8	89.0	114.6	182.1	268.0	259.8	606.6	1204.0	1481.2	1039.3
82.5°	55.2	56.3	81.8	119.7	169.8	125.8	179.0	374.4	470.5	300.7
85°	31.7	30.7	60.4	69.6	75.7	52.2	54.2	112.5	147.3	126.8
87.5°	4.1	6.1	23.5	18.4	10.2	11.3	11.3	19.4	28.6	30.7
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°
1774.8	0°	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8
1776.8	2.5°	1776.8	1775.8	1772.7	1769.7	1762.5	1758.4	1760.5	1758.4	1757.4	1758.4
1790.1	5°	1790.1	1787.1	1778.9	1768.6	1754.3	1736.9	1725.7	1709.3	1694.0	1684.8
1825.9	7.5°	1825.9	1822.9	1811.6	1783.0	1736.9	1664.3	1597.8	1539.5	1495.5	1469.9
1883.2	10°	1883.2	1878.1	1860.7	1797.3	1676.6	1518.0	1386.1	1276.6	1205.0	1171.3
1950.7	12.5°	1950.7	1944.6	1913.9	1784.0	1562.0	1314.5	1132.4	1010.7	944.2	914.5
2028.5	15°	2030.5	2022.3	1962.0	1720.6	1395.3	1089.4	922.7	831.6	788.7	762.1
2127.7	17.5°	2129.7	2115.4	1997.8	1625.4	1214.2	917.6	793.8	725.3	687.4	661.8
2257.6	20°	2258.6	2235.1	2026.4	1511.9	1047.5	809.1	706.8	649.6	620.9	598.4
2441.7	22.5°	2438.7	2404.9	2061.2	1389.1	929.8	734.5	642.4	600.5	576.9	551.4
2698.5	25°	2661.7	2621.8	2104.2	1275.6	849.0	670.0	595.3	560.6	532.9	503.3
3035.0	27.5°	2973.7	2902.0	2155.3	1182.5	779.5	614.8	552.4	513.5	481.8	457.2
3416.6	30°	3321.4	3203.8	2200.3	1126.2	716.0	563.6	496.1	457.2	427.6	410.2
3759.3	32.5°	3650.8	3491.3	2230.0	1101.7	658.8	505.3	434.7	392.8	370.3	365.2
4094.8	35°	3961.8	3751.1	2226.9	1078.2	607.6	447.0	374.4	331.4	314.0	317.1
4455.9	37.5°	4319.8	4028.3	2205.4	1041.3	565.7	393.8	322.2	284.4	269.0	270.1
4894.7	40°	4736.2	4348.5	2192.1	971.8	519.6	344.7	279.3	248.6	237.3	233.2
5357.1	42.5°	5180.1	4658.4	2194.2	893.0	462.4	300.7	249.6	224.0	213.8	210.7
5871.6	45°	5626.1	4954.0	2197.2	811.2	402.0	267.0	228.1	206.6	200.5	196.4
6393.3	47.5°	6045.5	5205.7	2140.0	723.2	342.7	241.4	210.7	196.4	191.3	186.2
6917.0	50°	6436.3	5373.4	2001.9	620.9	295.6	221.0	197.4	187.2	182.1	177.0
7391.7	52.5°	6740.1	5400.0	1773.8	515.6	262.9	205.6	189.2	180.0	173.9	168.8
7775.3	55°	6875.1	5233.3	1449.5	417.4	237.3	192.3	181.1	171.9	164.7	159.6
8077.0	57.5°	6840.3	4882.4	1130.3	335.5	212.8	179.0	170.8	164.7	156.5	148.3
8321.5	60°	6669.5	4412.9	852.1	279.3	190.3	164.7	159.6	154.5	143.2	130.9
8415.6	62.5°	6373.9	3822.7	607.6	231.2	165.7	148.3	146.3	142.2	125.8	103.3
8276.5	65°	5921.7	3105.6	409.2	192.3	142.2	129.9	130.9	123.8	102.3	76.7
7767.1	67.5°	5260.9	2270.9	261.9	157.5	118.7	108.4	109.5	105.4	86.9	65.5
6801.4	70°	4419.0	1503.7	170.8	119.7	95.1	83.9	90.0	91.0	73.7	53.2
5220.0	72.5°	3239.6	887.9	119.7	89.0	69.6	58.3	73.7	75.7	59.3	39.9
3140.4	75°	1846.4	421.4	90.0	64.4	43.0	40.9	57.3	57.3	40.9	26.6
1359.5	77.5°	775.4	175.9	63.4	41.9	24.6	23.5	38.9	35.8	20.5	12.3
331.4	80°	224.0	78.8	33.8	20.5	10.2	9.2	15.3	11.3	5.1	2.0
125.8	82.5°	88.0	34.8	13.3	8.2	4.1	4.1	2.0	0.0	0.0	0.0
71.6	85°	52.2	14.3	6.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.3	87.5°	13.3	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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1774.8
1762.5
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1471.0
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407.1
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