

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: P846987

Luminaire Tested: **GLAN-SB2D-840-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846987
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-SB2D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 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: 14194 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

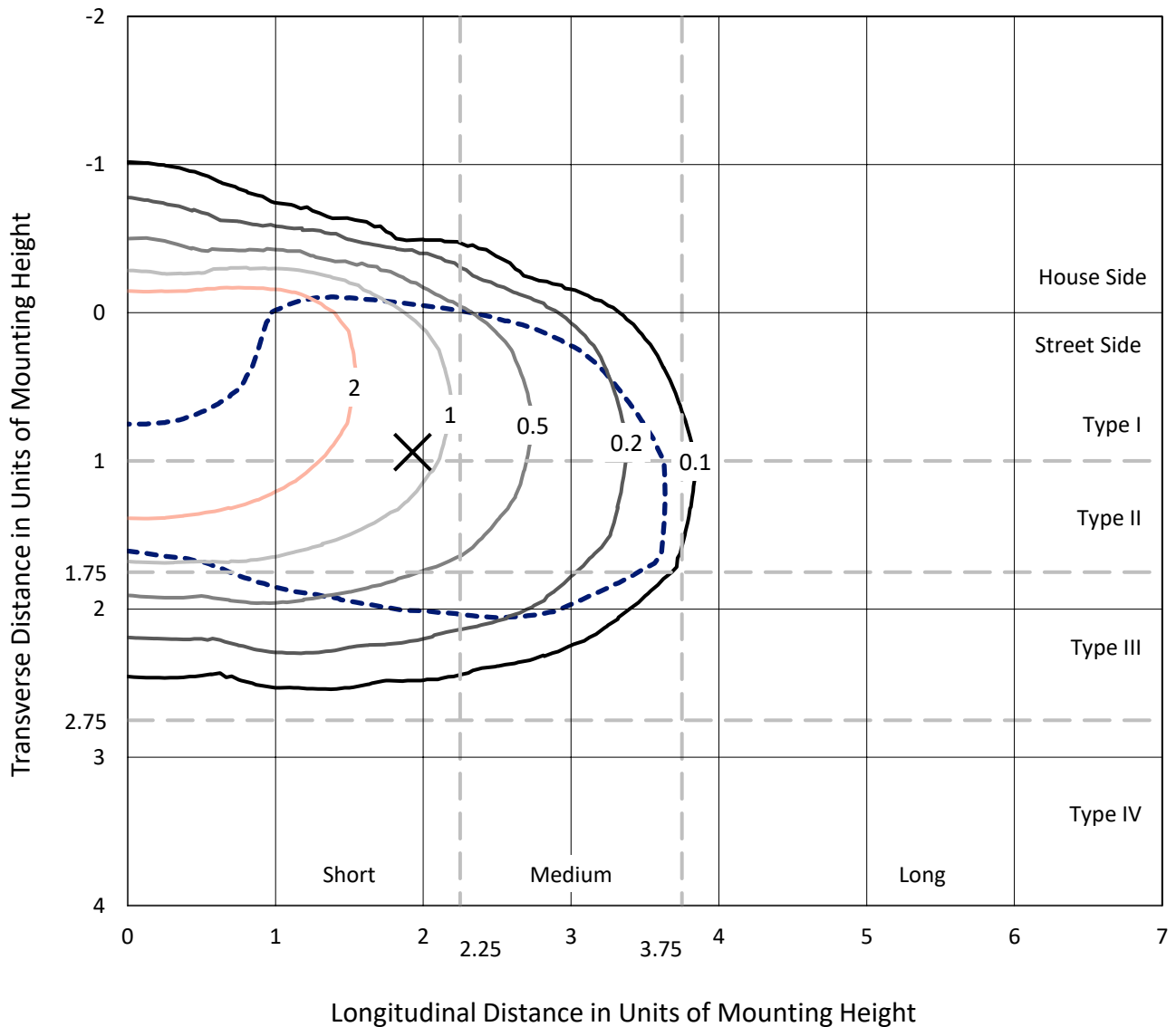
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

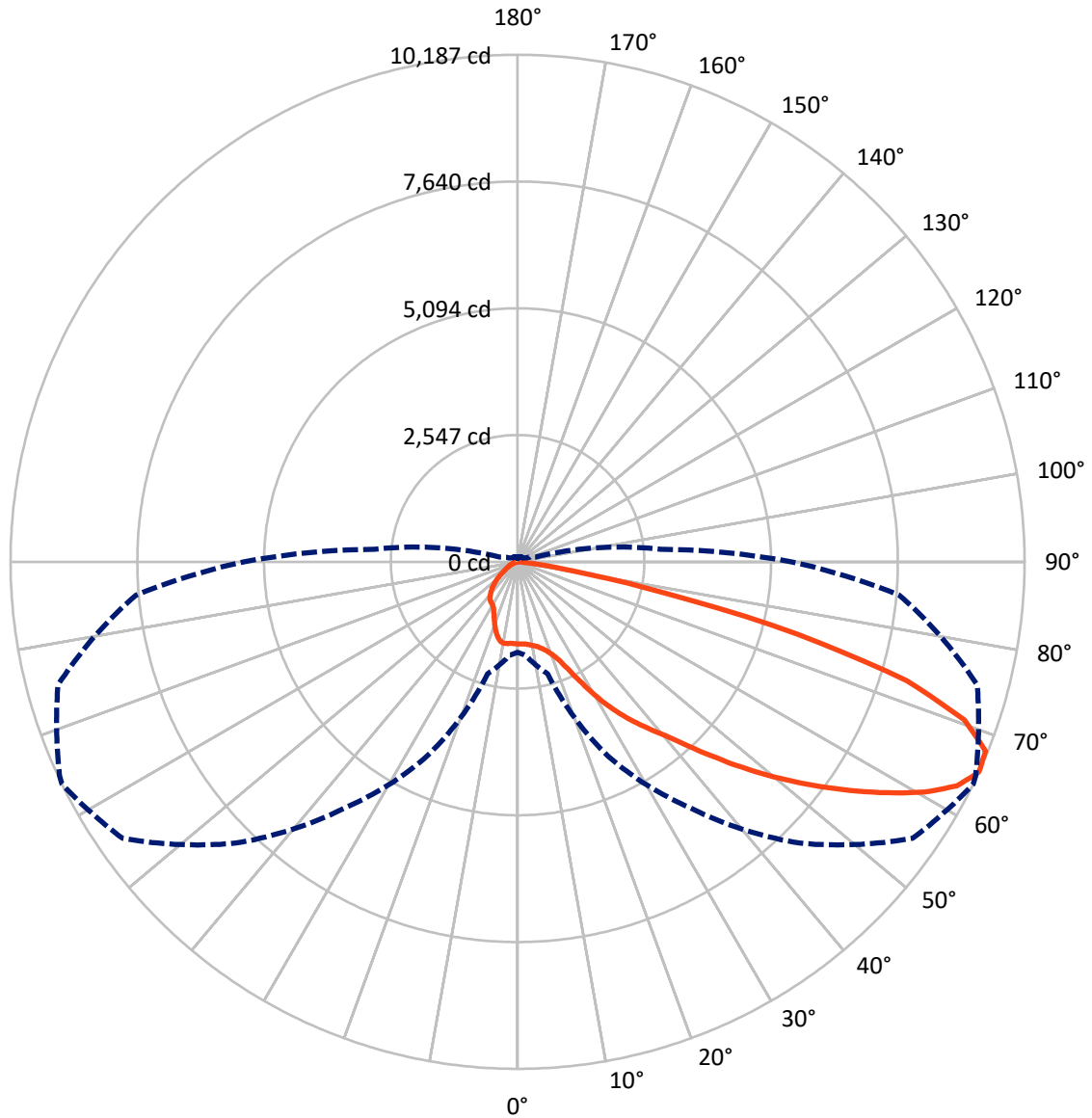
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1898.2	0.0	1898.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12295.8	0.0	12295.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	14194.0	0.0	14194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	413.1	2.9
20°-30°	782.8	5.5
30°-40°	1584.1	11.2
40°-50°	2698.5	19.0
50°-60°	3669.7	25.9
60°-70°	3446.0	24.3
70°-80°	1380.6	9.7
80°-90°	66.9	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°	14194.0	100.0
0°-180°	14194.0	100.0

Coefficient of Utilization



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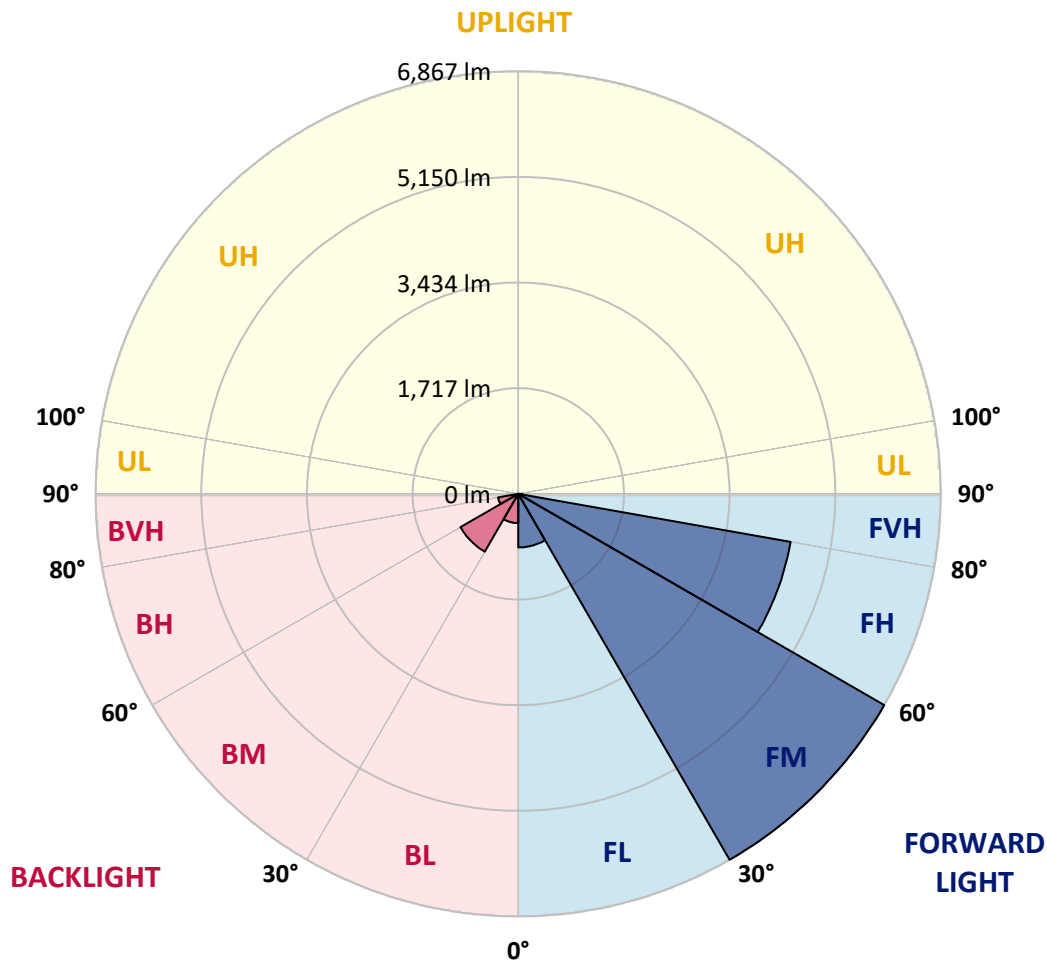
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.7	6.1			
FM (30°-60°)	6867.0	48.4			
FH (60°-80°)	4493.5	31.7			G2/5000
FVH (80°-90°)	63.6	0.4			G1/100
BL (0°-30°)	476.6	3.4	B1/500		
BM (30°-60°)	1085.2	7.6	B2/2500		
BH (60°-80°)	333.2	2.3	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9
2.5°	1645.2	1656.6	1653.8	1650.9	1650.0	1651.9	1652.8	1651.9	1651.9	1651.9
5°	1613.8	1623.3	1623.3	1630.0	1639.5	1650.9	1659.5	1661.4	1663.3	1666.1
7.5°	1553.9	1561.5	1567.2	1589.1	1612.8	1643.3	1669.0	1682.3	1684.2	1694.7
10°	1512.9	1522.5	1532.0	1554.8	1589.1	1634.7	1678.5	1710.9	1715.6	1740.4
12.5°	1511.0	1520.5	1532.9	1557.7	1597.6	1646.2	1699.4	1746.1	1754.6	1790.8
15°	1531.0	1542.4	1553.9	1584.3	1627.1	1686.1	1743.2	1801.3	1809.8	1861.2
17.5°	1571.9	1587.2	1595.7	1626.2	1671.8	1737.5	1812.7	1879.3	1886.9	1946.8
20°	1652.8	1670.9	1673.7	1698.5	1743.2	1813.6	1903.1	1985.8	1995.4	2063.9
22.5°	1820.3	1846.0	1823.1	1835.5	1875.5	1945.9	2042.9	2147.6	2160.9	2239.0
25°	2115.3	2151.4	2092.4	2071.5	2088.6	2161.9	2283.7	2415.9	2431.2	2494.0
27.5°	2694.7	2648.1	2558.7	2471.1	2419.7	2461.6	2598.6	2762.3	2781.3	2842.2
30°	3331.3	3290.4	3169.6	2975.4	2853.6	2847.0	2973.5	3156.2	3178.1	3236.2
32.5°	3968.8	3929.8	3798.5	3559.7	3348.4	3243.8	3331.3	3534.0	3545.4	3582.5
35°	4595.9	4555.9	4424.6	4180.1	3920.3	3682.4	3665.3	3893.7	3897.5	3936.5
37.5°	5226.8	5193.5	5053.6	4813.8	4557.8	4229.6	4070.7	4234.3	4239.1	4277.1
40°	5676.8	5691.1	5595.0	5409.5	5189.7	4830.9	4525.5	4596.9	4568.3	4632.1
42.5°	6063.2	6091.7	6008.0	5914.7	5787.2	5471.3	5088.8	5076.4	5030.8	5065.0
45°	6397.2	6420.9	6345.8	6323.9	6321.0	6099.3	5704.4	5630.2	5566.5	5559.8
47.5°	6519.9	6565.6	6597.9	6671.2	6813.9	6720.7	6341.0	6225.9	6154.5	6102.2
50°	6566.5	6615.1	6725.4	6938.6	7276.4	7316.3	6974.7	6845.3	6757.8	6662.6
52.5°	6503.7	6590.3	6738.8	7097.5	7587.5	7794.0	7582.8	7469.5	7369.6	7214.5
55°	6133.6	6220.2	6523.7	7095.6	7742.6	8128.9	8157.5	8107.1	7994.8	7750.2
57.5°	5353.3	5481.8	5962.3	6853.9	7739.8	8417.3	8720.8	8757.0	8631.4	8281.2
60°	4272.4	4446.5	5032.7	6318.2	7500.9	8573.3	9214.6	9395.4	9262.2	8804.5
62.5°	2981.2	3182.9	3737.6	5478.9	6954.8	8461.0	9575.3	9909.3	9808.4	9272.7
65°	1818.4	1883.1	2330.3	4311.4	6026.1	7991.0	9686.6	10187.1	10153.8	9559.1
67.5°	1211.3	1265.5	1394.0	2956.4	4677.7	7051.8	9420.2	10138.6	10148.1	9512.5
70°	729.8	776.5	860.2	1719.4	3031.6	5581.7	8595.2	9520.1	9575.3	8889.2
72.5°	300.7	332.1	408.2	779.3	1570.0	3542.6	6844.4	8173.7	8302.1	7474.3
75°	170.3	186.5	239.8	391.1	681.3	1650.9	4145.8	5802.4	5991.8	5151.6
77.5°	113.2	120.8	155.1	253.1	383.5	563.3	1771.8	3023.0	3384.6	2813.7
80°	76.1	82.8	106.6	169.4	249.3	241.7	564.3	1120.0	1377.8	966.8
82.5°	51.4	52.3	76.1	111.3	158.0	117.0	166.5	348.3	437.7	279.8
85°	29.5	28.5	56.1	64.7	70.4	48.5	50.4	104.7	137.0	118.0
87.5°	3.8	5.7	21.9	17.1	9.5	10.5	10.5	18.1	26.6	28.5
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°
1650.9	0°	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9
1652.8	2.5°	1652.8	1651.9	1649.0	1646.2	1639.5	1635.7	1637.6	1635.7	1634.7	1635.7
1665.2	5°	1665.2	1662.3	1654.7	1645.2	1631.9	1615.7	1605.2	1590.0	1575.7	1567.2
1698.5	7.5°	1698.5	1695.6	1685.2	1658.5	1615.7	1548.1	1486.3	1432.1	1391.1	1367.4
1751.8	10°	1751.8	1747.0	1730.8	1671.8	1559.6	1412.1	1289.3	1187.5	1120.9	1089.5
1814.6	12.5°	1814.6	1808.9	1780.3	1659.5	1453.0	1222.7	1053.3	940.1	878.3	850.7
1886.9	15°	1888.8	1881.2	1825.0	1600.5	1297.9	1013.4	858.3	773.6	733.6	708.9
1979.2	17.5°	1981.1	1967.8	1858.3	1512.0	1129.5	853.5	738.4	674.6	639.4	615.6
2100.0	20°	2101.0	2079.1	1885.0	1406.4	974.4	752.7	657.5	604.2	577.6	556.6
2271.3	22.5°	2268.5	2237.1	1917.3	1292.2	864.9	683.2	597.6	558.5	536.7	512.9
2510.1	25°	2475.9	2438.8	1957.3	1186.6	789.8	623.3	553.8	521.4	495.7	468.2
2823.2	27.5°	2766.1	2699.5	2004.9	1100.0	725.1	571.9	513.8	477.7	448.2	425.3
3178.1	30°	3089.6	2980.2	2046.7	1047.6	666.1	524.3	461.5	425.3	397.7	381.6
3496.9	32.5°	3396.0	3247.6	2074.3	1024.8	612.8	470.1	404.4	365.4	344.5	339.7
3809.0	35°	3685.3	3489.3	2071.5	1002.9	565.2	415.8	348.3	308.3	292.1	295.0
4144.9	37.5°	4018.3	3747.1	2051.5	968.7	526.2	366.3	299.7	264.5	250.3	251.2
4553.1	40°	4405.6	4045.0	2039.1	904.0	483.4	320.7	259.8	231.2	220.8	216.9
4983.2	42.5°	4818.6	4333.3	2041.0	830.7	430.1	279.8	232.2	208.4	198.9	196.0
5461.8	45°	5233.4	4608.3	2043.9	754.6	374.0	248.4	212.2	192.2	186.5	182.7
5947.1	47.5°	5623.6	4842.4	1990.6	672.7	318.8	224.6	196.0	182.7	177.9	173.2
6434.3	50°	5987.0	4998.4	1862.1	577.6	275.0	205.5	183.6	174.1	169.4	164.6
6875.8	52.5°	6269.7	5023.1	1650.0	479.6	244.5	191.3	176.0	167.5	161.8	157.0
7232.6	55°	6395.3	4868.0	1348.3	388.2	220.8	178.9	168.4	159.9	153.2	148.4
7513.3	57.5°	6362.9	4541.7	1051.4	312.1	197.9	166.5	158.9	153.2	145.6	138.0
7740.7	60°	6204.0	4104.9	792.6	259.8	177.0	153.2	148.4	143.7	133.2	121.8
7828.3	62.5°	5929.0	3555.9	565.2	215.0	154.1	138.0	136.1	132.3	117.0	96.1
7698.9	65°	5508.4	2888.9	380.6	178.9	132.3	120.8	121.8	115.1	95.2	71.4
7225.0	67.5°	4893.7	2112.4	243.6	146.5	110.4	100.9	101.8	98.0	80.9	60.9
6326.7	70°	4110.6	1398.8	158.9	111.3	88.5	78.0	83.7	84.7	68.5	49.5
4855.7	72.5°	3013.5	825.9	111.3	82.8	64.7	54.2	68.5	70.4	55.2	37.1
2921.2	75°	1717.5	392.0	83.7	59.9	40.0	38.1	53.3	53.3	38.1	24.7
1264.6	77.5°	721.3	163.7	59.0	39.0	22.8	21.9	36.2	33.3	19.0	11.4
308.3	80°	208.4	73.3	31.4	19.0	9.5	8.6	14.3	10.5	4.8	1.9
117.0	82.5°	81.8	32.4	12.4	7.6	3.8	3.8	1.9	0.0	0.0	0.0
66.6	85°	48.5	13.3	5.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	12.4	2.9	1.9	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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1650.9
1639.5
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1368.3
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552.8
509.1
465.3
420.6
378.7
342.6
295.0
255.0
216.0
195.1
182.7
173.2
164.6
156.1
147.5
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119.9
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