

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: P846957

Luminaire Tested: **GLAN-SB2D-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846957
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 12725 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

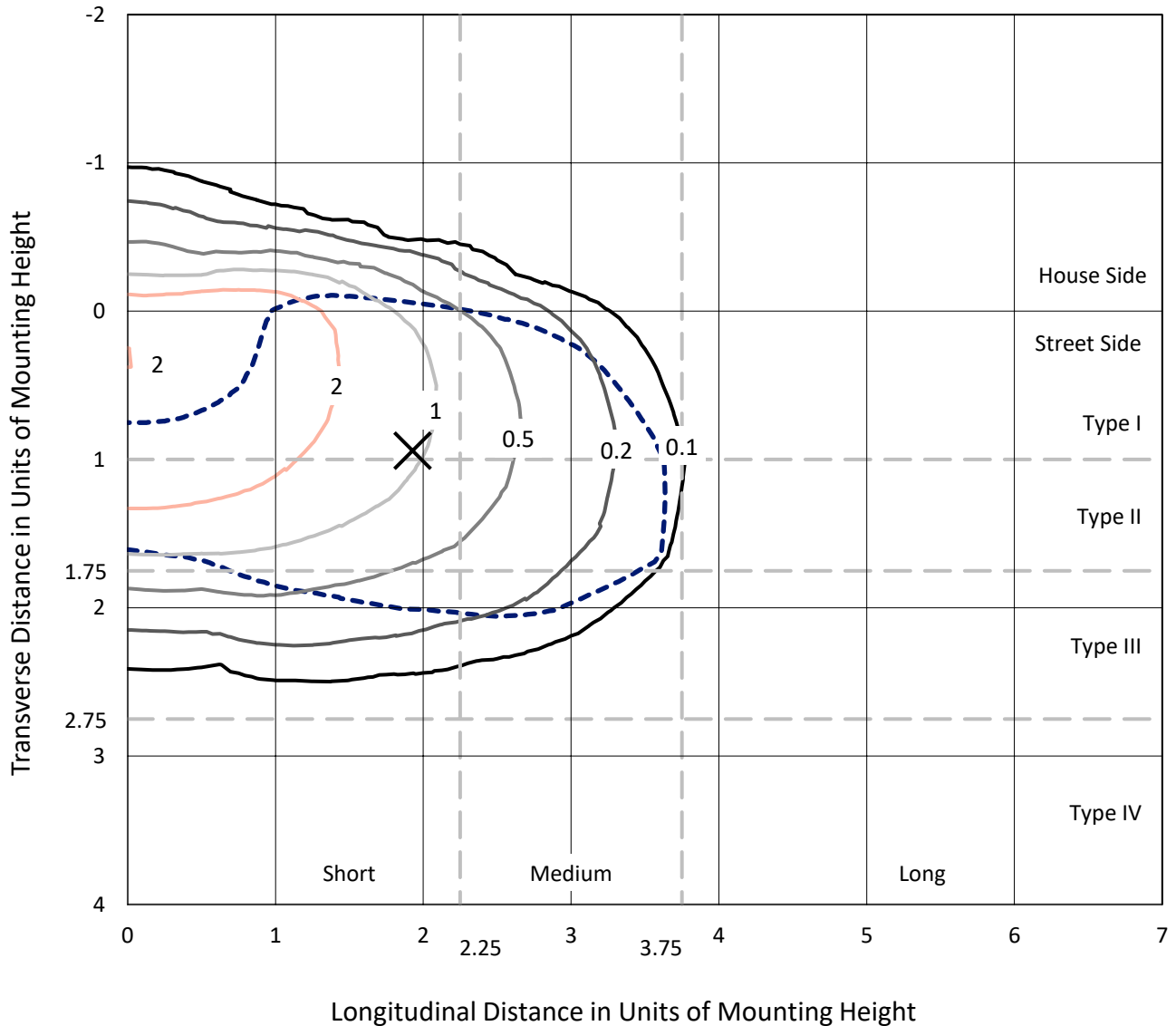
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

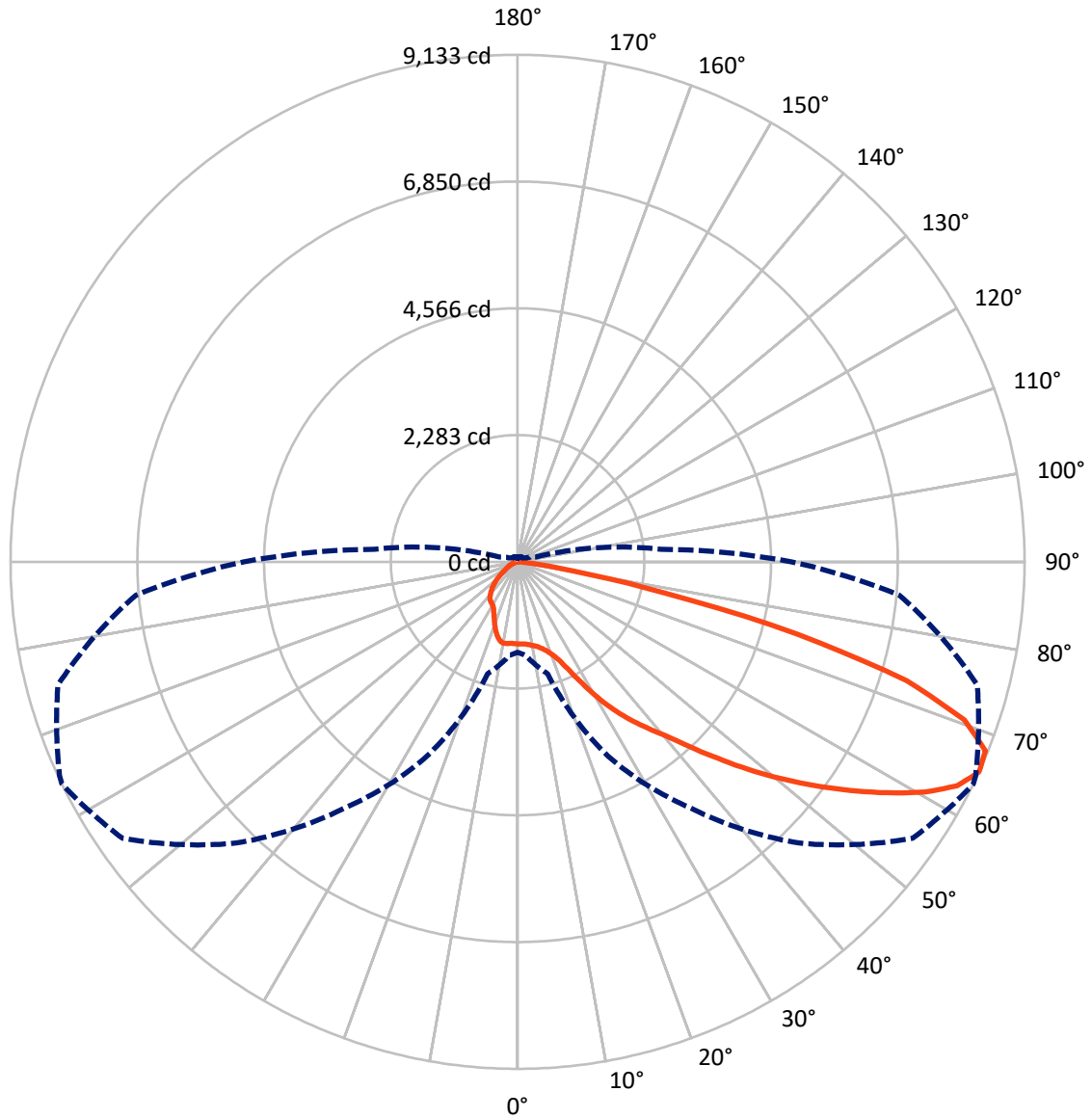
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1701.7	0.0	1701.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11023.3	0.0	11023.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	12725.0	0.0	12725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.1
10°-20°	370.4	2.9
20°-30°	701.8	5.5
30°-40°	1420.1	11.2
40°-50°	2419.2	19.0
50°-60°	3289.9	25.9
60°-70°	3089.4	24.3
70°-80°	1237.7	9.7
80°-90°	60.0	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°	12725.0	100.0
0°-180°	12725.0	100.0

Coefficient of Utilization



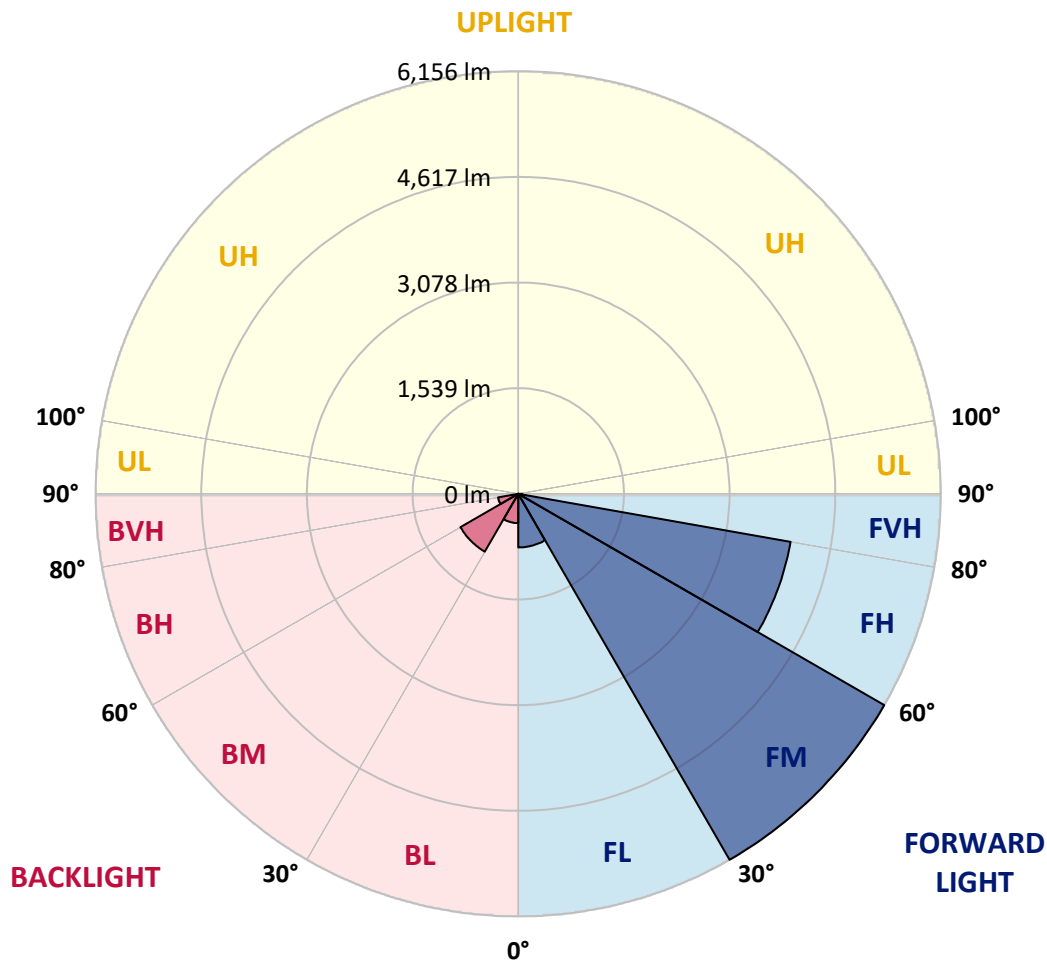
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.5	6.1			
FM (30°-60°)	6156.3	48.4			
FH (60°-80°)	4028.4	31.7			G2/5000
FVH (80°-90°)	57.0	0.4			G1/100
BL (0°-30°)	427.2	3.4	B1/500		
BM (30°-60°)	972.9	7.6	B1/1000		
BH (60°-80°)	298.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0
2.5°	1474.9	1485.2	1482.6	1480.0	1479.2	1480.9	1481.8	1480.9	1480.9	1480.9
5°	1446.8	1455.3	1455.3	1461.3	1469.8	1480.0	1487.7	1489.4	1491.1	1493.7
7.5°	1393.0	1399.9	1405.0	1424.6	1445.9	1473.2	1496.3	1508.2	1509.9	1519.3
10°	1356.4	1364.9	1373.4	1393.9	1424.6	1465.5	1504.8	1533.8	1538.1	1560.2
12.5°	1354.7	1363.2	1374.3	1396.5	1432.3	1475.8	1523.6	1565.4	1573.0	1605.4
15°	1372.6	1382.8	1393.0	1420.3	1458.7	1511.6	1562.8	1614.8	1622.5	1668.6
17.5°	1409.2	1422.9	1430.6	1457.9	1498.8	1557.7	1625.1	1684.8	1691.6	1745.3
20°	1481.8	1498.0	1500.5	1522.7	1562.8	1625.9	1706.1	1780.3	1788.9	1850.3
22.5°	1631.9	1654.9	1634.5	1645.5	1681.4	1744.5	1831.5	1925.3	1937.3	2007.2
25°	1896.3	1928.8	1875.9	1857.1	1872.5	1938.1	2047.3	2165.9	2179.6	2235.9
27.5°	2415.9	2374.1	2293.9	2215.4	2169.3	2206.9	2329.7	2476.4	2493.5	2548.1
30°	2986.5	2949.9	2841.5	2667.5	2558.3	2552.3	2665.8	2829.6	2849.2	2901.2
32.5°	3558.1	3523.1	3405.4	3191.3	3001.9	2908.1	2986.5	3168.2	3178.5	3211.8
35°	4120.3	4084.4	3966.7	3747.5	3514.6	3301.3	3286.0	3490.7	3494.1	3529.1
37.5°	4685.8	4656.0	4530.6	4315.6	4086.1	3791.8	3649.4	3796.1	3800.4	3834.5
40°	5089.3	5102.1	5016.0	4849.6	4652.6	4331.0	4057.1	4121.1	4095.5	4152.7
42.5°	5435.7	5461.3	5386.2	5302.6	5188.3	4905.1	4562.1	4551.0	4510.1	4540.8
45°	5735.1	5756.4	5689.0	5669.4	5666.8	5468.1	5114.1	5047.5	4990.4	4984.4
47.5°	5845.1	5886.1	5915.1	5980.8	6108.7	6025.1	5684.8	5581.5	5517.6	5470.6
50°	5886.9	5930.4	6029.4	6220.5	6523.3	6559.1	6252.9	6136.9	6058.4	5973.1
52.5°	5830.6	5908.3	6041.3	6362.9	6802.3	6987.4	6798.0	6696.5	6606.9	6467.9
55°	5498.8	5576.4	5848.5	6361.2	6941.3	7287.6	7313.2	7268.0	7167.4	6948.1
57.5°	4799.3	4914.4	5345.2	6144.6	6938.7	7546.1	7818.2	7850.7	7738.1	7424.1
60°	3830.2	3986.3	4511.8	5664.3	6724.6	7686.0	8261.0	8423.1	8303.6	7893.3
62.5°	2672.6	2853.5	3350.8	4911.9	6235.0	7585.4	8584.3	8883.7	8793.3	8313.0
65°	1630.2	1688.2	2089.1	3865.2	5402.4	7164.0	8684.1	9132.8	9102.9	8569.8
67.5°	1085.9	1134.6	1249.7	2650.4	4193.6	6322.0	8445.2	9089.3	9097.8	8528.0
70°	654.3	696.1	771.2	1541.5	2717.8	5004.0	7705.6	8534.8	8584.3	7969.2
72.5°	269.6	297.7	366.0	698.7	1407.5	3175.9	6136.0	7327.7	7442.9	6700.7
75°	152.7	167.2	215.0	350.6	610.8	1480.0	3716.8	5201.9	5371.7	4618.4
77.5°	101.5	108.3	139.0	226.9	343.8	505.0	1588.4	2710.2	3034.3	2522.5
80°	68.2	74.2	95.5	151.8	223.5	216.7	505.9	1004.0	1235.2	866.7
82.5°	46.1	46.9	68.2	99.8	141.6	104.9	149.3	312.2	392.4	250.8
85°	26.4	25.6	50.3	58.0	63.1	43.5	45.2	93.8	122.8	105.8
87.5°	3.4	5.1	19.6	15.4	8.5	9.4	9.4	16.2	23.9	25.6
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°
1480.0	0°	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0	1480.0
1481.8	2.5°	1481.8	1480.9	1478.3	1475.8	1469.8	1466.4	1468.1	1466.4	1465.5	1466.4
1492.8	5°	1492.8	1490.3	1483.5	1474.9	1463.0	1448.5	1439.1	1425.5	1412.7	1405.0
1522.7	7.5°	1522.7	1520.1	1510.8	1486.9	1448.5	1387.9	1332.5	1283.8	1247.2	1225.8
1570.5	10°	1570.5	1566.2	1551.7	1498.8	1398.2	1265.9	1155.9	1064.6	1004.9	976.7
1626.8	12.5°	1626.8	1621.7	1596.1	1487.7	1302.6	1096.2	944.3	842.8	787.4	762.6
1691.6	15°	1693.3	1686.5	1636.2	1434.8	1163.6	908.5	769.5	693.5	657.7	635.5
1774.4	17.5°	1776.1	1764.1	1666.0	1355.5	1012.6	765.2	662.0	604.8	573.3	551.9
1882.7	20°	1883.5	1863.9	1689.9	1260.8	873.5	674.8	589.5	541.7	517.8	499.0
2036.2	22.5°	2033.7	2005.5	1718.9	1158.4	775.4	612.5	535.7	500.7	481.1	459.8
2250.4	25°	2219.6	2186.4	1754.7	1063.8	708.0	558.8	496.5	467.5	444.4	419.7
2531.0	27.5°	2479.8	2420.1	1797.4	986.1	650.0	512.7	460.6	428.2	401.8	381.3
2849.2	30°	2769.9	2671.8	1834.9	939.2	597.1	470.0	413.7	381.3	356.6	342.1
3135.0	32.5°	3044.6	2911.5	1859.7	918.7	549.4	421.4	362.5	327.6	308.8	304.5
3414.8	35°	3303.9	3128.2	1857.1	899.1	506.7	372.8	312.2	276.4	261.9	264.4
3715.9	37.5°	3602.4	3359.3	1839.2	868.4	471.7	328.4	268.7	237.1	224.4	225.2
4081.9	40°	3949.6	3626.3	1828.1	810.4	433.4	287.5	232.9	207.3	197.9	194.5
4467.4	42.5°	4319.9	3884.8	1829.8	744.7	385.6	250.8	208.1	186.8	178.3	175.7
4896.5	45°	4691.8	4131.3	1832.4	676.5	335.3	222.6	190.2	172.3	167.2	163.8
5331.6	47.5°	5041.6	4341.2	1784.6	603.1	285.8	201.3	175.7	163.8	159.5	155.3
5768.4	50°	5367.4	4481.1	1669.4	517.8	246.5	184.3	164.6	156.1	151.8	147.6
6164.2	52.5°	5620.8	4503.3	1479.2	429.9	219.2	171.5	157.8	150.1	145.0	140.8
6484.1	55°	5733.4	4364.2	1208.8	348.0	197.9	160.4	151.0	143.3	137.3	133.1
6735.7	57.5°	5704.4	4071.6	942.6	279.8	177.4	149.3	142.5	137.3	130.5	123.7
6939.6	60°	5561.9	3680.1	710.6	232.9	158.7	137.3	133.1	128.8	119.4	109.2
7018.1	62.5°	5315.4	3187.9	506.7	192.8	138.2	123.7	122.0	118.6	104.9	86.2
6902.1	65°	4938.3	2589.9	341.2	160.4	118.6	108.3	109.2	103.2	85.3	64.0
6477.2	67.5°	4387.3	1893.8	218.4	131.4	99.0	90.4	91.3	87.9	72.5	54.6
5672.0	70°	3685.2	1254.0	142.5	99.8	79.3	70.0	75.1	75.9	61.4	44.4
4353.1	72.5°	2701.6	740.5	99.8	74.2	58.0	48.6	61.4	63.1	49.5	33.3
2618.9	75°	1539.8	351.5	75.1	53.7	35.8	34.1	47.8	47.8	34.1	22.2
1133.7	77.5°	646.6	146.7	52.9	35.0	20.5	19.6	32.4	29.9	17.1	10.2
276.4	80°	186.8	65.7	28.2	17.1	8.5	7.7	12.8	9.4	4.3	1.7
104.9	82.5°	73.4	29.0	11.1	6.8	3.4	3.4	1.7	0.0	0.0	0.0
59.7	85°	43.5	11.9	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	11.1	2.6	1.7	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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1480.0
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