

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: P848487

Luminaire Tested: **GLAN-SB5A-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848487
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 14169 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

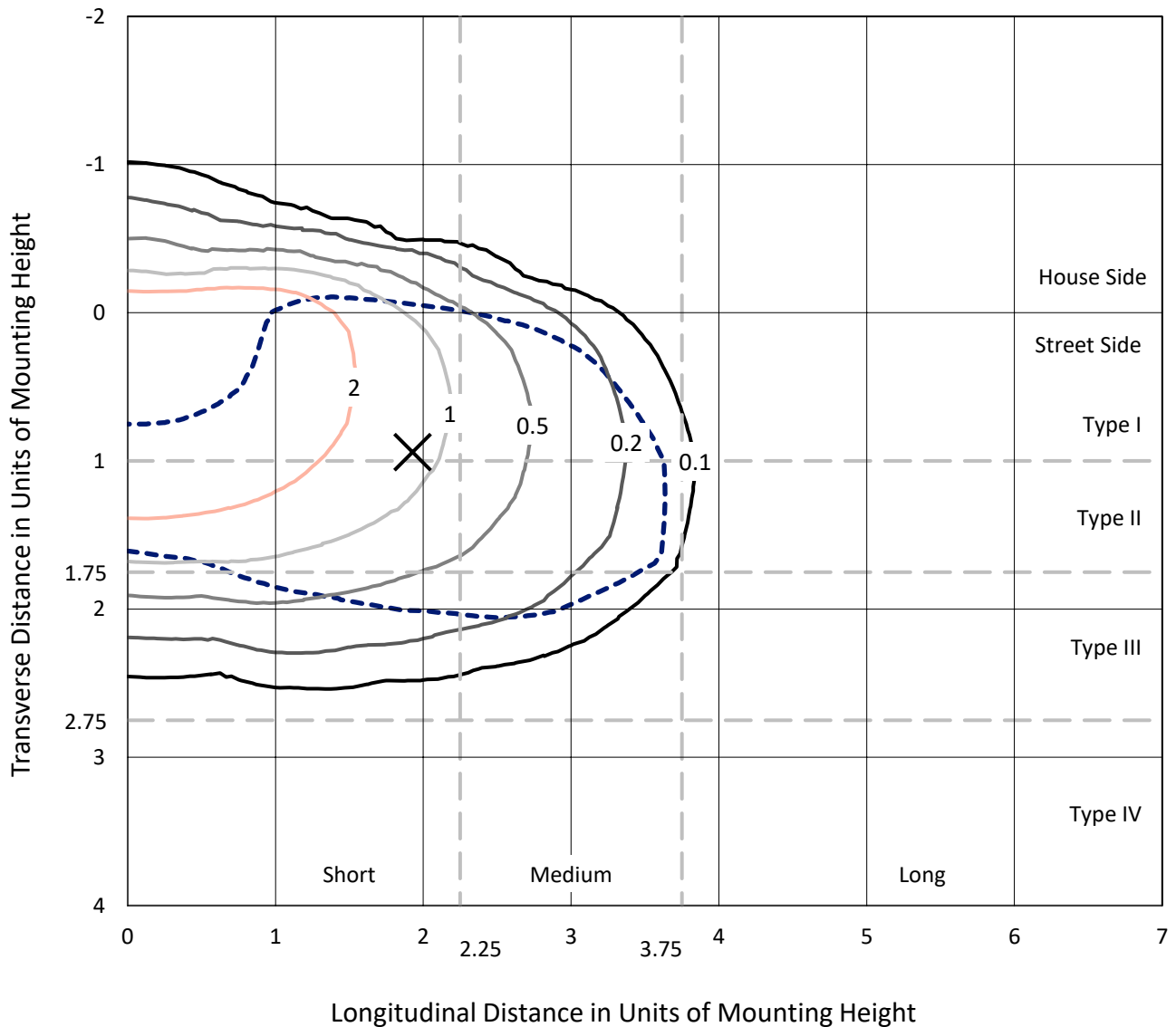
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

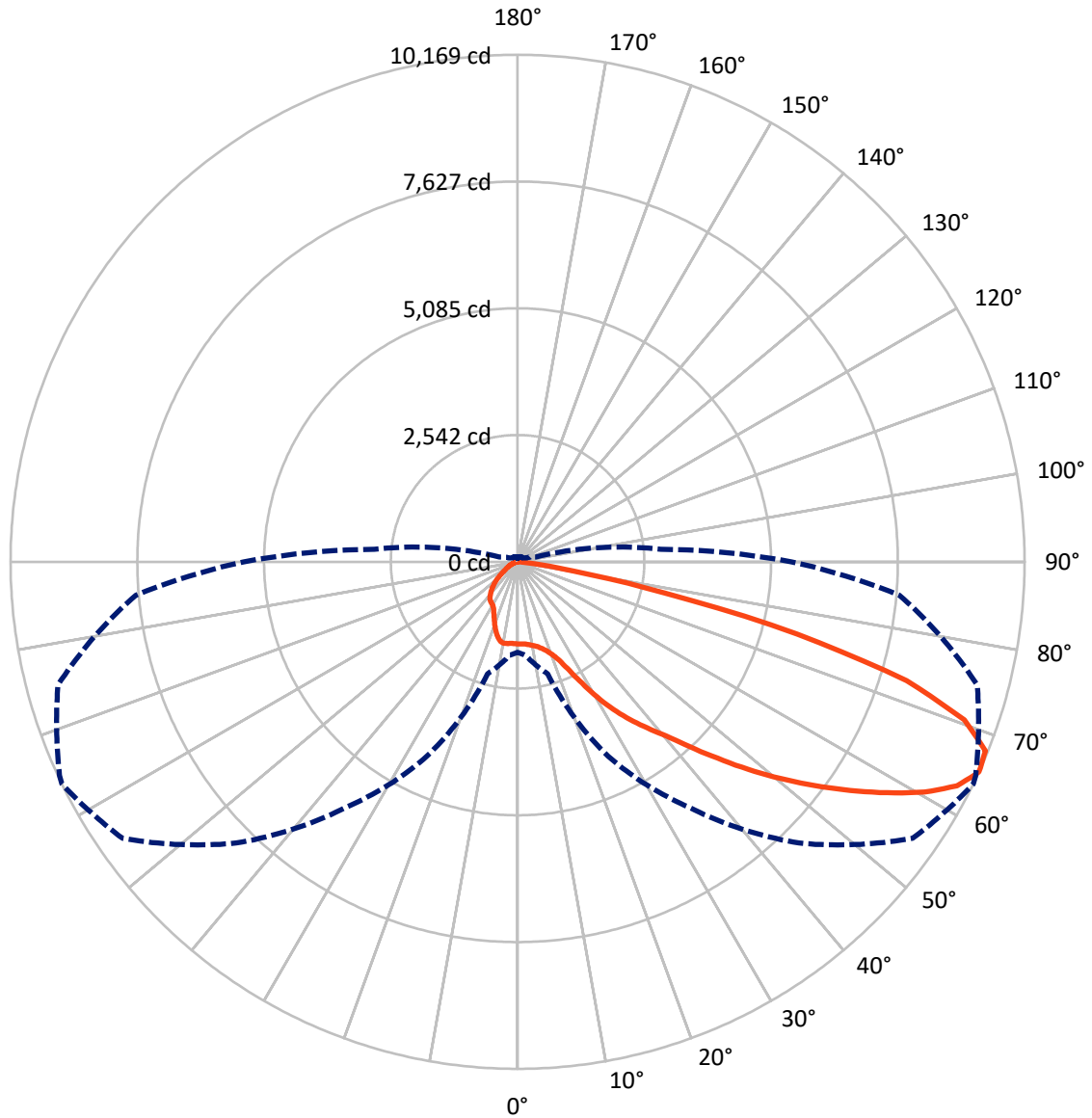
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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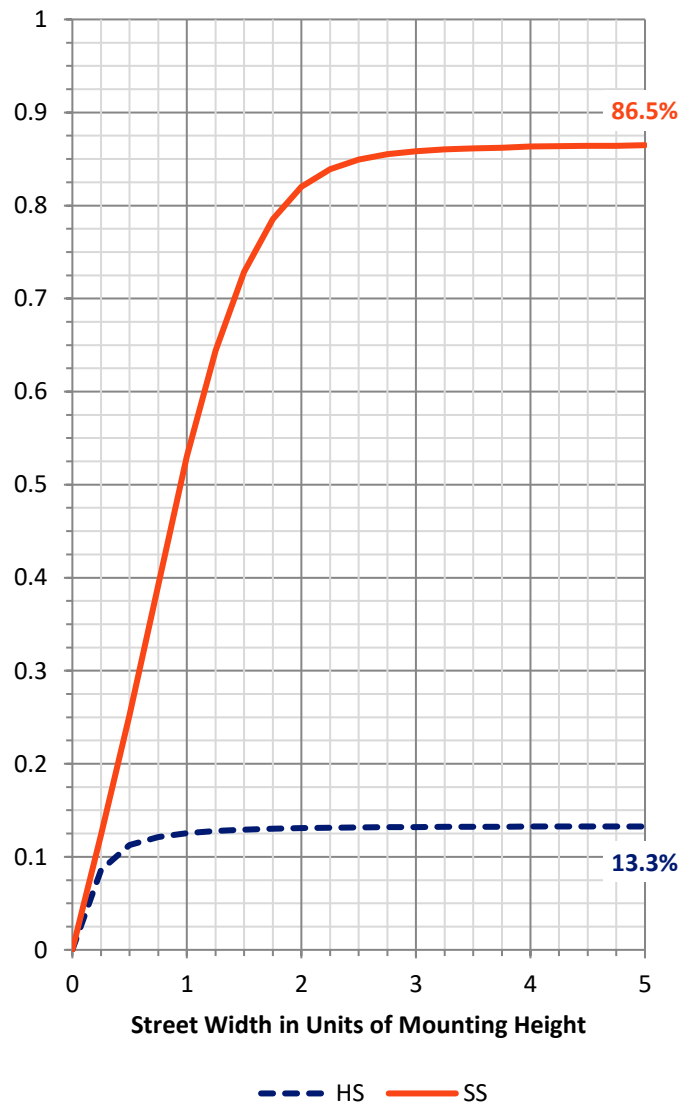
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.8	0.0	1894.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12274.2	0.0	12274.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	14169.0	0.0	14169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	1.1
10°-20°	412.4	2.9
20°-30°	781.4	5.5
30°-40°	1581.3	11.2
40°-50°	2693.7	19.0
50°-60°	3663.2	25.9
60°-70°	3440.0	24.3
70°-80°	1378.2	9.7
80°-90°	66.8	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°	14169.0	100.0
0°-180°	14169.0	100.0

Coefficient of Utilization



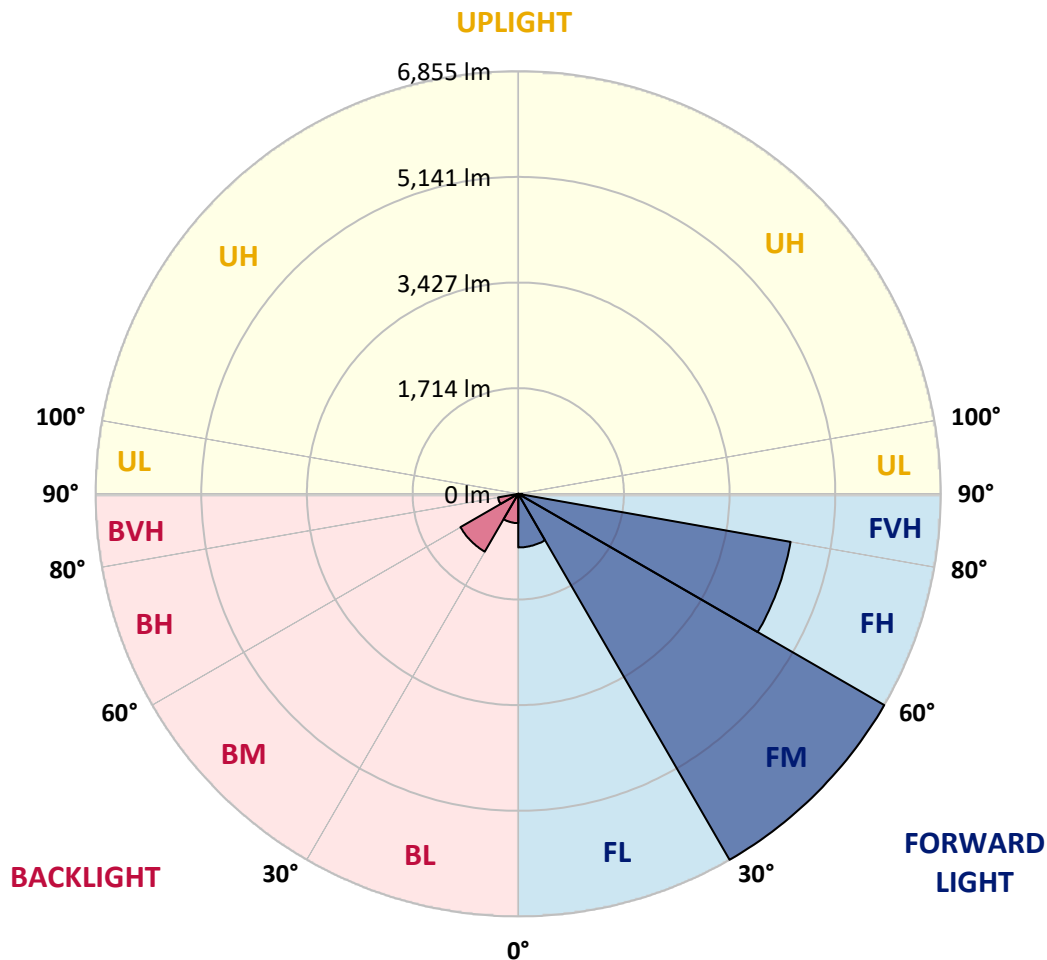
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.1	6.1			
FM (30°-60°)	6854.9	48.4			
FH (60°-80°)	4485.6	31.7			G2/5000
FVH (80°-90°)	63.5	0.4			G1/100
BL (0°-30°)	475.7	3.4	B1/500		
BM (30°-60°)	1083.3	7.6	B2/2500		
BH (60°-80°)	332.6	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°	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0
2.5°	1642.3	1653.7	1650.9	1648.0	1647.1	1649.0	1649.9	1649.0	1649.0	1649.0
5°	1611.0	1620.5	1620.5	1627.1	1636.6	1648.0	1656.6	1658.5	1660.3	1663.2
7.5°	1551.1	1558.7	1564.4	1586.3	1610.0	1640.4	1666.0	1679.3	1681.2	1691.7
10°	1510.3	1519.8	1529.3	1552.1	1586.3	1631.9	1675.5	1707.8	1712.6	1737.3
12.5°	1508.4	1517.9	1530.2	1554.9	1594.8	1643.3	1696.4	1743.0	1751.5	1787.6
15°	1528.3	1539.7	1551.1	1581.5	1624.3	1683.1	1740.1	1798.1	1806.6	1857.9
17.5°	1569.2	1584.4	1592.9	1623.3	1668.9	1734.4	1809.5	1876.0	1883.6	1943.4
20°	1649.9	1667.9	1670.8	1695.5	1740.1	1810.4	1899.7	1982.4	1991.9	2060.2
22.5°	1817.1	1842.7	1819.9	1832.3	1872.2	1942.5	2039.3	2143.8	2157.1	2235.0
25°	2111.5	2147.6	2088.7	2067.8	2084.9	2158.1	2279.7	2411.7	2426.9	2489.6
27.5°	2690.0	2643.5	2554.2	2466.8	2415.5	2457.3	2594.1	2757.4	2776.4	2837.2
30°	3325.4	3284.6	3164.0	2970.2	2848.6	2842.0	2968.3	3150.7	3172.5	3230.5
32.5°	3961.9	3922.9	3791.8	3553.4	3342.5	3238.1	3325.4	3527.8	3539.2	3576.2
35°	4587.8	4547.9	4416.8	4172.7	3913.4	3675.9	3658.8	3886.8	3890.6	3929.6
37.5°	5217.6	5184.3	5044.7	4805.3	4549.8	4222.1	4063.5	4226.9	4231.6	4269.6
40°	5666.8	5681.1	5585.2	5399.9	5180.5	4822.4	4517.5	4588.8	4560.3	4623.9
42.5°	6052.5	6081.0	5997.4	5904.3	5777.0	5461.7	5079.8	5067.5	5021.9	5056.1
45°	6385.9	6409.6	6334.6	6312.7	6309.9	6088.6	5694.4	5620.3	5556.7	5550.0
47.5°	6508.4	6554.0	6586.3	6659.4	6801.9	6708.8	6329.8	6214.9	6143.7	6091.4
50°	6555.0	6603.4	6713.6	6926.4	7263.6	7303.5	6962.5	6833.3	6745.9	6650.9
52.5°	6492.3	6578.7	6726.9	7085.0	7574.2	7780.3	7569.4	7456.4	7356.6	7201.8
55°	6122.8	6209.2	6512.2	7083.1	7729.0	8114.6	8143.1	8092.8	7980.7	7736.6
57.5°	5343.9	5472.1	5951.8	6841.8	7726.1	8402.4	8705.4	8741.5	8616.2	8266.6
60°	4264.9	4438.7	5023.8	6307.1	7487.7	8558.2	9198.4	9378.9	9245.9	8789.0
62.5°	2975.9	3177.3	3731.0	5469.3	6942.5	8446.1	9558.4	9891.8	9791.1	9256.4
65°	1815.2	1879.8	2326.2	4303.8	6015.4	7976.9	9669.5	10169.2	10135.9	9542.3
67.5°	1209.2	1263.3	1391.5	2951.2	4669.5	7039.4	9403.6	10120.7	10130.2	9495.7
70°	728.5	775.1	858.7	1716.4	3026.2	5571.9	8580.1	9503.3	9558.4	8873.6
72.5°	300.2	331.5	407.5	777.9	1567.3	3536.3	6832.3	8159.3	8287.5	7461.1
75°	170.0	186.2	239.4	390.4	680.1	1648.0	4138.5	5792.2	5981.2	5142.5
77.5°	113.0	120.6	154.8	252.7	382.8	562.3	1768.6	3017.7	3378.6	2808.7
80°	76.0	82.6	106.4	169.1	248.9	241.3	563.3	1118.0	1375.4	965.1
82.5°	51.3	52.2	76.0	111.1	157.7	116.8	166.2	347.6	436.9	279.3
85°	29.4	28.5	56.0	64.6	70.3	48.4	50.3	104.5	136.8	117.8
87.5°	3.8	5.7	21.8	17.1	9.5	10.4	10.4	18.0	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°
1648.0	0°	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0
1649.9	2.5°	1649.9	1649.0	1646.1	1643.3	1636.6	1632.8	1634.7	1632.8	1631.9	1632.8
1662.2	5°	1662.2	1659.4	1651.8	1642.3	1629.0	1612.9	1602.4	1587.2	1573.0	1564.4
1695.5	7.5°	1695.5	1692.6	1682.2	1655.6	1612.9	1545.4	1483.7	1429.5	1388.7	1364.9
1748.7	10°	1748.7	1743.9	1727.8	1668.9	1556.8	1409.6	1287.1	1185.4	1118.9	1087.6
1811.4	12.5°	1811.4	1805.7	1777.2	1656.6	1450.4	1220.6	1051.5	938.5	876.7	849.2
1883.6	15°	1885.5	1877.9	1821.8	1597.7	1295.6	1011.6	856.8	772.2	732.3	707.6
1975.7	17.5°	1977.6	1964.3	1855.1	1509.3	1127.5	852.0	737.1	673.4	638.3	614.6
2096.3	20°	2097.3	2075.4	1881.7	1403.9	972.7	751.3	656.4	603.2	576.6	555.7
2267.3	22.5°	2264.5	2233.1	1914.0	1289.9	863.4	682.0	596.5	557.6	535.7	512.0
2505.7	25°	2471.5	2434.5	1953.9	1184.5	788.4	622.2	552.8	520.5	494.9	467.3
2818.2	27.5°	2761.2	2694.7	2001.3	1098.0	723.8	570.9	512.9	476.8	447.4	424.6
3172.5	30°	3084.2	2975.0	2043.1	1045.8	664.9	523.4	460.7	424.6	397.0	380.9
3490.7	32.5°	3390.0	3241.9	2070.7	1023.0	611.7	469.2	403.7	364.7	343.8	339.1
3802.3	35°	3678.8	3483.1	2067.8	1001.1	564.2	415.1	347.6	307.8	291.6	294.5
4137.6	37.5°	4011.2	3740.5	2047.9	967.0	525.3	365.7	299.2	264.1	249.8	250.8
4545.1	40°	4397.8	4037.8	2035.5	902.4	482.5	320.1	259.3	230.8	220.4	216.6
4974.4	42.5°	4810.1	4325.6	2037.4	829.2	429.3	279.3	231.8	208.0	198.5	195.7
5452.2	45°	5224.2	4600.2	2040.3	753.2	373.3	247.9	211.8	191.9	186.2	182.4
5936.6	47.5°	5613.7	4833.8	1987.1	671.5	318.2	224.2	195.7	182.4	177.6	172.9
6422.9	50°	5976.5	4989.6	1858.9	576.6	274.5	205.2	183.3	173.8	169.1	164.3
6863.7	52.5°	6258.6	5014.3	1647.1	478.7	244.1	190.9	175.7	167.2	161.5	156.7
7219.9	55°	6384.0	4859.5	1345.9	387.5	220.4	178.6	168.1	159.6	152.9	148.2
7500.1	57.5°	6351.7	4533.7	1049.6	311.6	197.6	166.2	158.6	152.9	145.3	137.7
7727.1	60°	6193.1	4097.7	791.2	259.3	176.7	152.9	148.2	143.4	133.0	121.6
7814.5	62.5°	5918.6	3549.6	564.2	214.7	153.9	137.7	135.8	132.0	116.8	95.9
7685.3	65°	5498.7	2883.8	379.9	178.6	132.0	120.6	121.6	114.9	95.0	71.2
7212.3	67.5°	4885.1	2108.7	243.2	146.3	110.2	100.7	101.6	97.8	80.7	60.8
6315.6	70°	4103.4	1396.3	158.6	111.1	88.3	77.9	83.6	84.5	68.4	49.4
4847.1	72.5°	3008.2	824.5	111.1	82.6	64.6	54.1	68.4	70.3	55.1	37.0
2916.1	75°	1714.5	391.3	83.6	59.8	39.9	38.0	53.2	53.2	38.0	24.7
1262.4	77.5°	720.0	163.4	58.9	38.9	22.8	21.8	36.1	33.2	19.0	11.4
307.8	80°	208.0	73.1	31.3	19.0	9.5	8.5	14.2	10.4	4.7	1.9
116.8	82.5°	81.7	32.3	12.3	7.6	3.8	3.8	1.9	0.0	0.0	0.0
66.5	85°	48.4	13.3	5.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
14.2	87.5°	12.3	2.8	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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1648.0
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