

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: McGRAW-EDISON

Report Number: P946053

Luminaire Tested: **GALN-SB1D-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7174 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

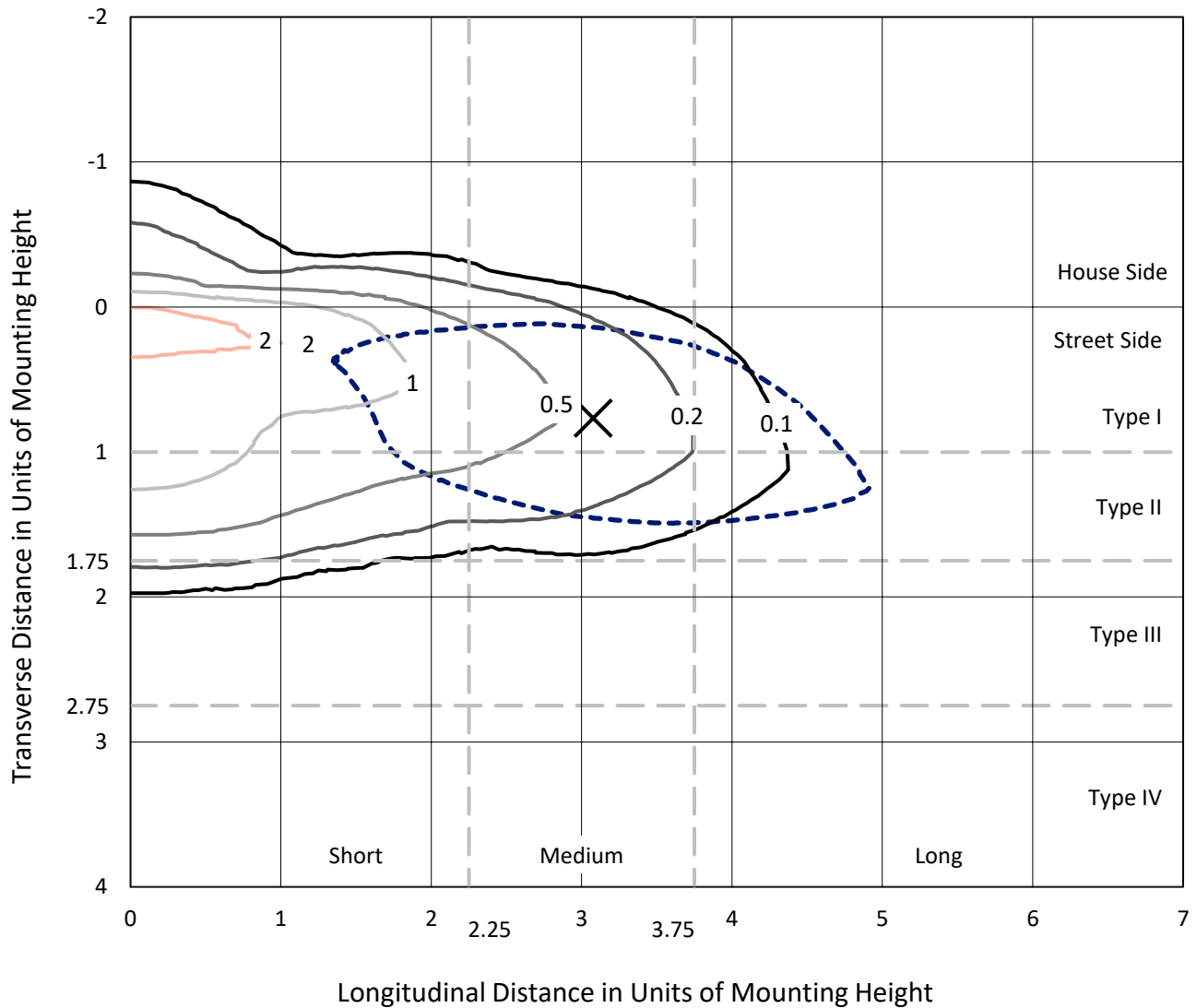
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

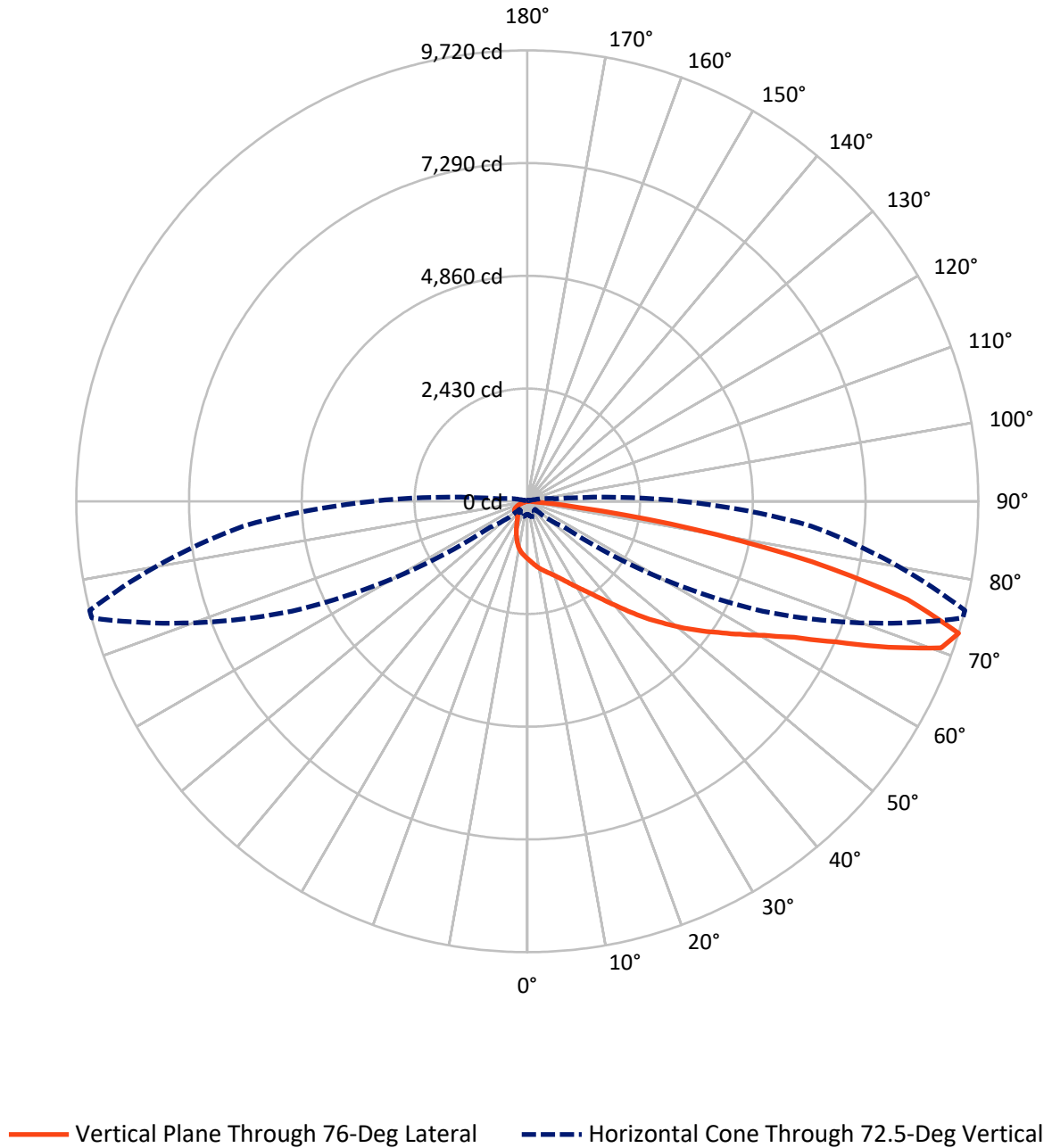
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.3	0.0	734.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6439.7	0.0	6439.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	7174.0	0.0	7174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.6
10°-20°	302.3	4.2
20°-30°	478.5	6.7
30°-40°	740.3	10.3
40°-50°	1124.4	15.7
50°-60°	1550.1	21.6
60°-70°	1637.6	22.8
70°-80°	1123.4	15.7
80°-90°	104.6	1.5
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°	7174.0	100.0
0°-180°	7174.0	100.0

Coefficient of Utilization



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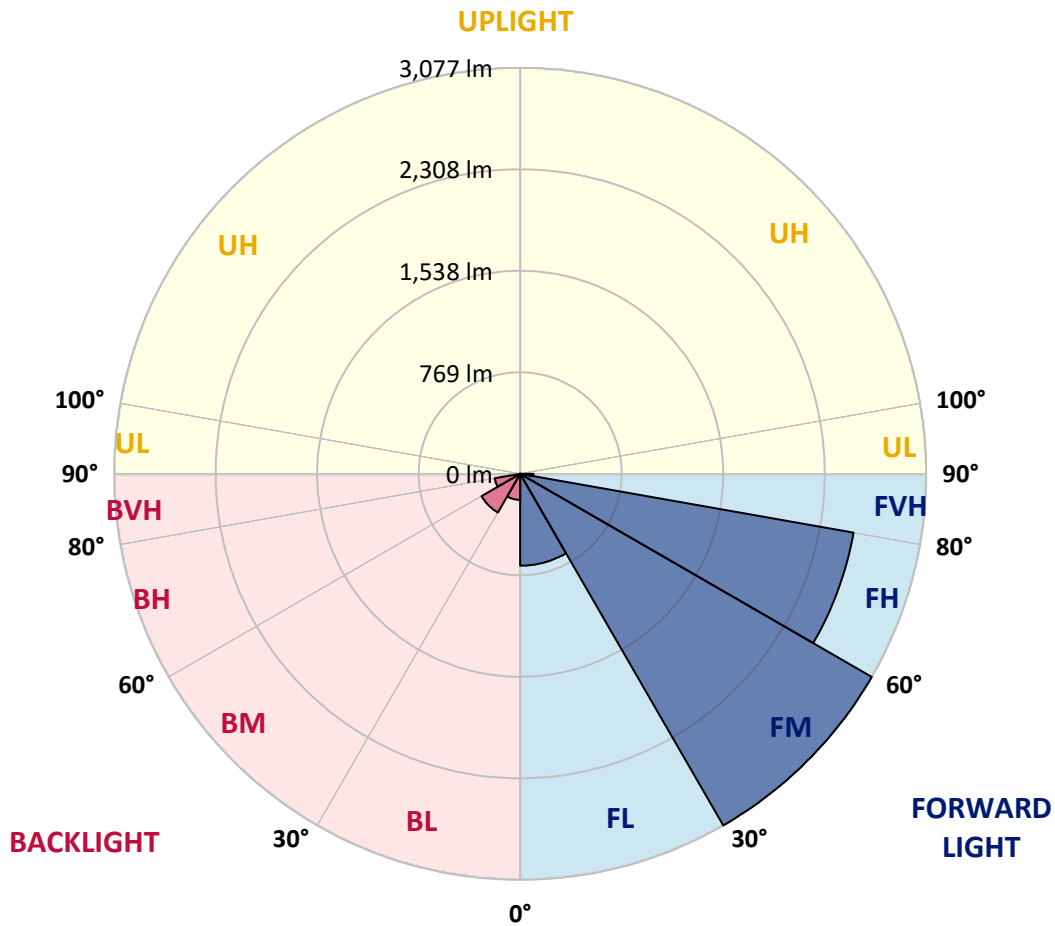
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.2	9.7			
FM (30°-60°)	3076.8	42.9			
FH (60°-80°)	2565.0	35.8			G2/5000
FVH (80°-90°)	101.7	1.4			G2/225
BL (0°-30°)	197.4	2.8	B1/500		
BM (30°-60°)	338.1	4.7	B1/1000		
BH (60°-80°)	196.0	2.7	B1/500		G1/500
BVH (80°-90°)	2.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1441.2	1422.2	1425.9	1406.8	1398.0	1376.5	1354.2	1324.9	1292.3	1292.3
5°	1592.9	1580.8	1580.8	1558.5	1541.3	1507.8	1467.8	1416.1	1354.7	1348.6
7.5°	1686.0	1678.6	1683.2	1670.2	1656.2	1621.3	1573.9	1506.4	1419.4	1411.9
10°	1704.2	1703.7	1716.7	1720.5	1729.8	1712.1	1669.7	1592.0	1483.1	1472.4
12.5°	1633.9	1625.1	1657.2	1694.9	1747.9	1771.6	1749.8	1670.2	1541.3	1526.4
15°	1518.5	1520.3	1551.1	1609.2	1697.6	1782.3	1810.7	1746.5	1600.4	1582.7
17.5°	1452.4	1445.4	1471.9	1524.1	1621.8	1741.4	1839.1	1817.7	1663.2	1643.2
20°	1444.5	1444.0	1450.1	1473.8	1548.3	1682.8	1835.9	1887.1	1737.2	1713.9
22.5°	1499.4	1498.5	1493.4	1488.7	1509.2	1625.5	1821.9	1953.1	1825.6	1800.5
25°	1583.6	1582.2	1574.3	1545.9	1525.9	1594.8	1808.9	2014.6	1930.3	1902.4
27.5°	1686.5	1685.5	1671.1	1628.3	1576.7	1597.6	1802.4	2077.9	2051.3	2023.9
30°	1812.6	1810.7	1780.9	1720.5	1653.0	1641.8	1811.2	2149.1	2177.4	2156.5
32.5°	1970.8	1965.7	1926.6	1835.4	1740.9	1700.9	1827.9	2222.1	2326.8	2307.3
35°	2093.2	2085.3	2062.5	1982.0	1842.8	1773.5	1867.0	2308.7	2506.5	2489.2
37.5°	2198.4	2190.5	2171.9	2105.8	1989.0	1866.1	1929.9	2424.1	2718.7	2710.3
40°	2311.9	2298.9	2290.1	2219.3	2113.7	1999.7	2019.7	2559.0	2963.0	2963.9
42.5°	2399.4	2394.3	2395.2	2340.8	2234.2	2157.9	2138.8	2711.2	3255.7	3264.5
45°	2474.3	2470.2	2487.4	2449.2	2355.7	2261.7	2278.4	2883.4	3575.9	3594.0
47.5°	2532.0	2536.7	2561.4	2536.7	2481.8	2334.7	2402.2	3069.1	3912.3	3914.6
50°	2589.8	2591.6	2632.6	2620.5	2598.1	2427.3	2516.2	3276.6	4266.9	4271.1
52.5°	2607.9	2605.1	2670.3	2700.0	2701.0	2541.8	2663.7	3502.8	4614.5	4628.0
55°	2514.8	2522.7	2627.9	2748.9	2796.8	2700.0	2862.9	3789.0	4985.0	4990.6
57.5°	2059.7	2103.4	2336.1	2616.7	2858.7	2926.7	3149.1	4123.6	5412.6	5407.5
60°	1250.0	1302.1	1580.4	2194.7	2656.8	3154.2	3570.7	4642.0	5879.9	5865.4
62.5°	699.0	714.8	803.7	1313.7	2020.6	3009.5	3982.6	5307.9	6507.2	6458.3
65°	515.2	520.3	541.2	643.6	993.1	2314.7	3892.3	6104.2	7388.6	7301.6
67.5°	447.7	452.8	473.3	487.2	443.5	1216.0	3206.8	6545.8	8507.8	8393.8
70°	376.9	379.7	412.8	422.1	317.4	462.6	2060.2	6409.5	9543.7	9462.2
72.5°	281.1	292.2	340.2	362.5	254.6	245.7	969.8	5603.9	9719.1	9720.1
75°	190.8	201.0	256.0	298.3	196.4	172.2	391.4	4184.6	8463.1	8463.1
77.5°	130.3	138.7	178.2	234.1	148.9	118.2	202.9	2655.8	6071.6	6285.2
80°	57.7	62.8	114.9	169.9	113.1	76.3	114.9	1454.3	3671.7	3626.6
82.5°	28.4	32.6	73.5	106.1	73.1	47.0	60.5	691.5	1189.9	1130.8
85°	5.6	7.4	39.6	45.1	34.0	20.9	22.8	212.7	143.3	163.8
87.5°	0.0	0.0	12.1	8.4	3.7	4.7	4.7	19.1	11.2	13.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1239.7	0°	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7
1260.7	2.5°	1243.9	1226.7	1189.0	1151.8	1113.6	1078.7	1054.5	1030.3	1015.4	1008.9
1288.6	5°	1253.7	1218.8	1139.7	1056.8	974.9	894.9	834.9	778.6	760.9	731.6
1321.6	7.5°	1269.0	1212.3	1087.6	947.9	814.9	697.6	612.9	545.4	518.4	492.4
1350.0	10°	1279.3	1200.2	1018.7	832.1	652.0	520.3	439.3	390.4	372.8	356.9
1376.5	12.5°	1283.5	1177.8	939.6	702.2	507.2	396.5	348.1	325.3	319.2	313.7
1401.7	15°	1287.2	1156.0	851.2	577.1	400.7	331.8	312.7	305.3	301.1	297.4
1427.3	17.5°	1290.5	1128.0	750.2	469.1	338.3	305.7	296.4	288.5	285.3	281.1
1464.0	20°	1301.6	1101.1	659.9	387.2	304.3	287.1	276.9	268.5	265.7	262.9
1516.2	22.5°	1322.6	1079.2	572.4	331.8	283.9	268.0	255.0	245.7	243.9	242.0
1579.4	25°	1347.7	1052.2	490.0	296.0	263.9	246.2	231.8	223.8	222.0	222.4
1652.5	27.5°	1379.8	1022.4	419.3	273.2	246.2	225.7	209.4	203.4	204.3	206.2
1736.7	30°	1415.2	994.9	363.9	257.3	230.4	207.6	191.3	187.1	190.3	193.1
1849.4	32.5°	1467.8	970.7	325.3	244.8	216.4	192.7	179.6	174.5	178.2	182.0
1993.2	35°	1539.4	958.6	303.4	234.1	204.3	181.0	168.0	164.3	168.0	168.9
2168.6	37.5°	1627.4	957.7	294.1	225.2	193.1	171.3	156.8	155.4	158.2	158.7
2379.4	40°	1740.9	963.8	287.1	218.7	181.5	160.1	146.6	145.2	146.1	149.4
2633.0	42.5°	1884.7	988.9	277.4	210.3	168.9	148.9	138.2	135.0	134.5	138.2
2916.9	45°	2065.3	1044.3	264.3	196.8	157.8	139.6	128.9	125.2	123.8	124.7
3210.1	47.5°	2262.1	1112.2	251.3	184.3	149.8	132.2	121.5	116.8	114.5	114.5
3484.2	50°	2452.9	1189.0	242.5	171.3	144.3	125.2	113.5	108.9	105.2	104.2
3766.2	52.5°	2641.9	1264.4	235.5	158.2	137.7	116.3	106.1	101.0	96.8	94.9
4045.4	55°	2814.1	1336.1	223.4	145.7	129.4	107.0	98.7	93.5	88.4	85.2
4328.4	57.5°	2979.3	1395.6	201.0	132.6	116.3	98.2	90.7	85.2	79.1	74.9
4614.5	60°	3129.6	1426.3	173.1	118.7	103.3	88.9	81.9	76.8	68.9	61.9
4896.1	62.5°	3244.1	1414.2	142.9	102.8	89.8	80.5	71.7	66.5	57.2	48.9
5233.5	65°	3361.3	1348.2	114.0	86.1	78.6	69.3	60.0	54.9	44.2	35.4
5690.0	67.5°	3513.5	1207.2	89.8	71.7	67.9	54.9	47.0	43.7	36.3	27.9
6180.0	70°	3611.2	937.7	69.8	58.2	55.8	40.0	36.3	35.8	28.9	21.4
6147.0	72.5°	3343.2	614.7	53.5	44.2	40.0	26.1	27.9	27.9	20.9	14.4
5388.4	75°	2790.8	359.7	38.6	31.6	22.8	16.8	19.1	19.1	13.0	7.0
3840.6	77.5°	1993.2	191.7	25.6	19.5	11.6	7.4	10.2	9.8	4.2	0.5
1505.5	80°	762.3	66.1	12.1	7.9	3.3	1.4	0.9	0.5	0.5	0.0
235.0	82.5°	116.3	17.2	2.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
49.8	85°	20.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.0	87.5°	4.7	0.0	0.0	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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<u>180°</u>
1239.7
1009.8
733.4
491.9
356.5
313.7
297.4
281.1
263.4
240.6
221.5
205.2
192.2
181.0
168.5
157.8
148.9
137.7
126.1
114.5
103.8
94.0
83.8
73.1
60.0
45.6
33.0
26.1
19.1
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