

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: P945969

Luminaire Tested: **GALN-SB1D-735-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945969
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-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 8250 lumens
Efficiency: N/A
Efficacy: 103.6 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

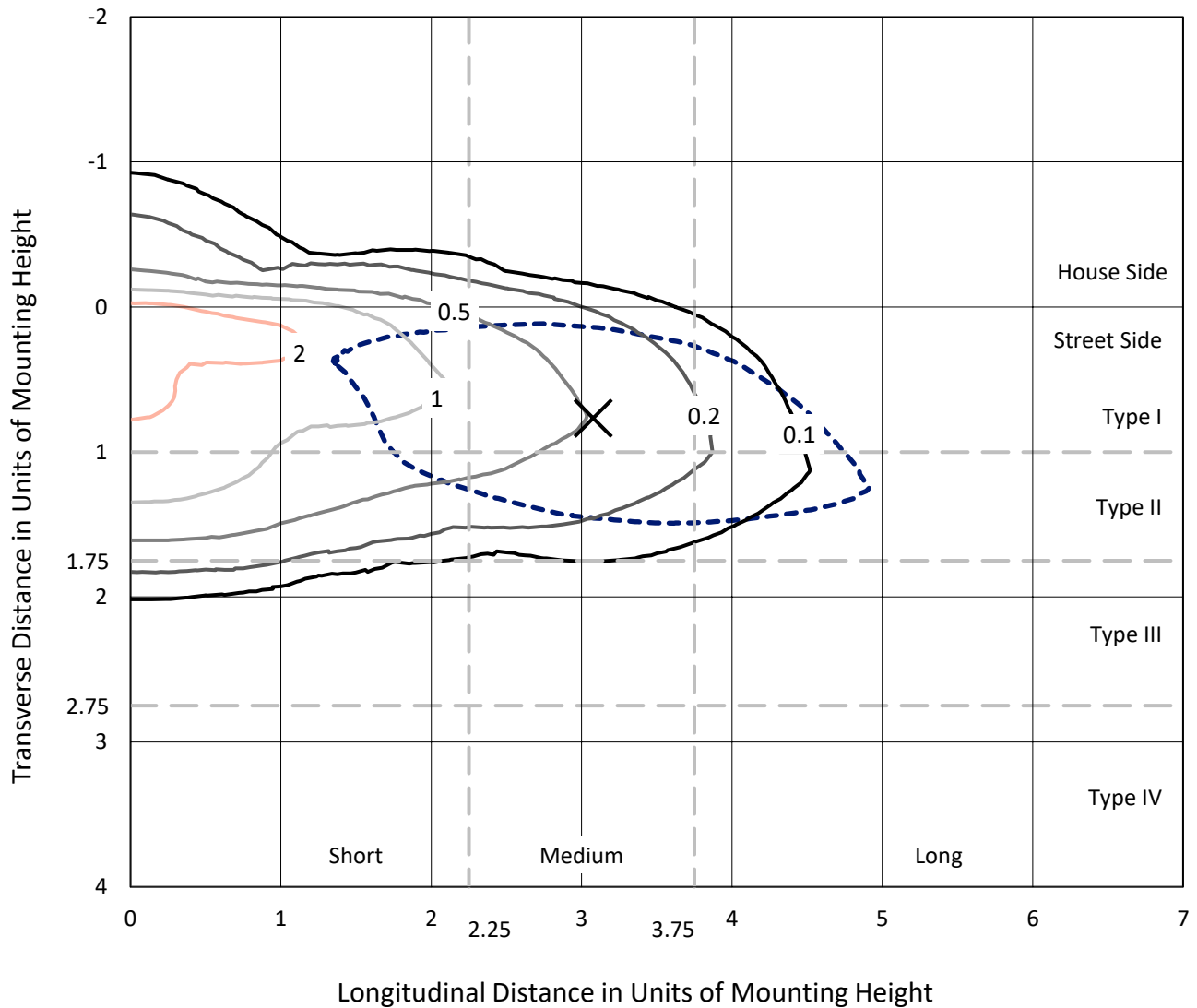
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945969
 CATALOG NUMBER: GALN-SB1D-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

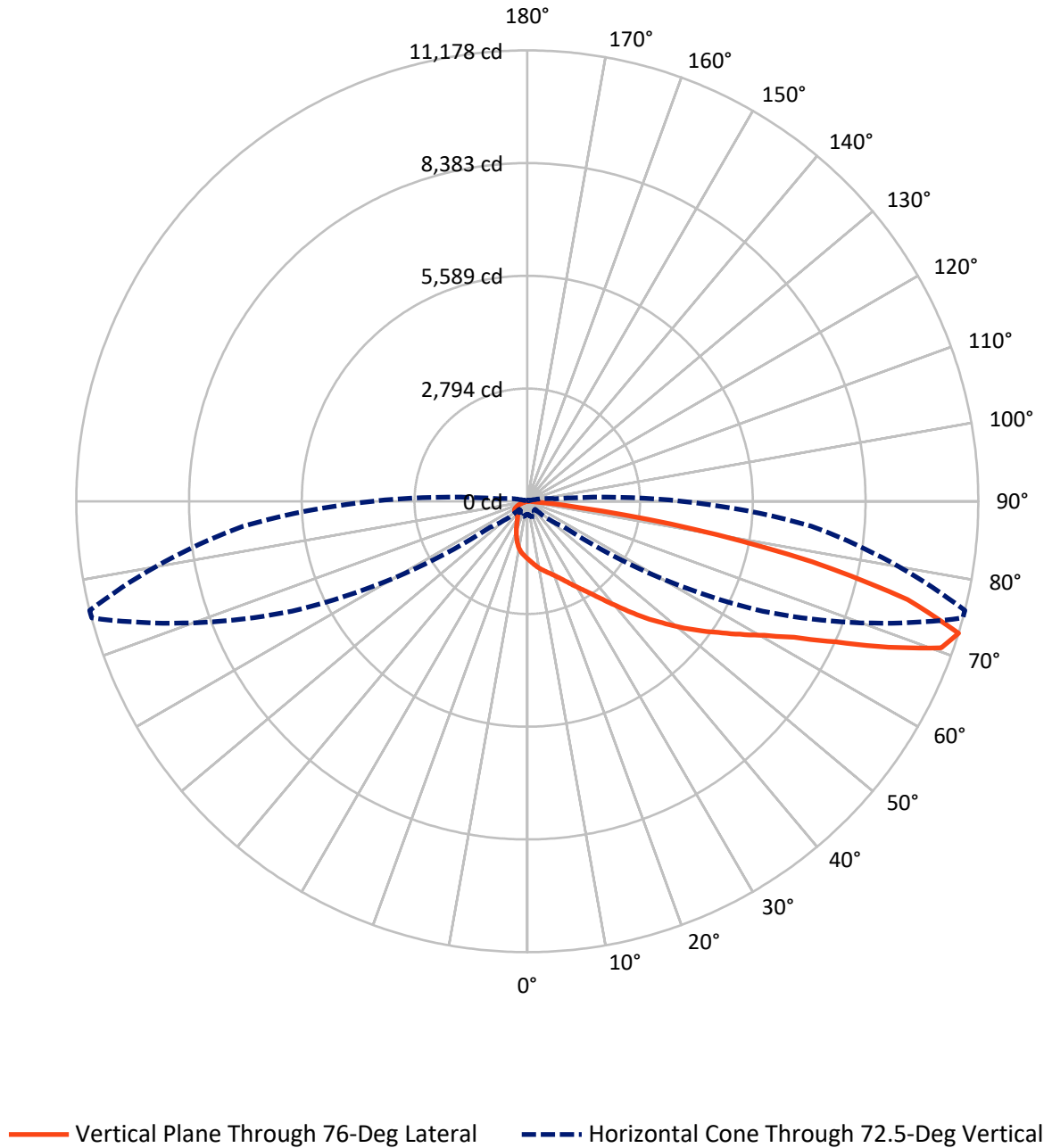
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

REPORT NUMBER: P945969
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.4	0.0	844.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7405.6	0.0	7405.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	8250.0	0.0	8250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.6
10°-20°	347.7	4.2
20°-30°	550.3	6.7
30°-40°	851.3	10.3
40°-50°	1293.1	15.7
50°-60°	1782.6	21.6
60°-70°	1883.2	22.8
70°-80°	1291.9	15.7
80°-90°	120.2	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°	8250.0	100.0
0°-180°	8250.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945969

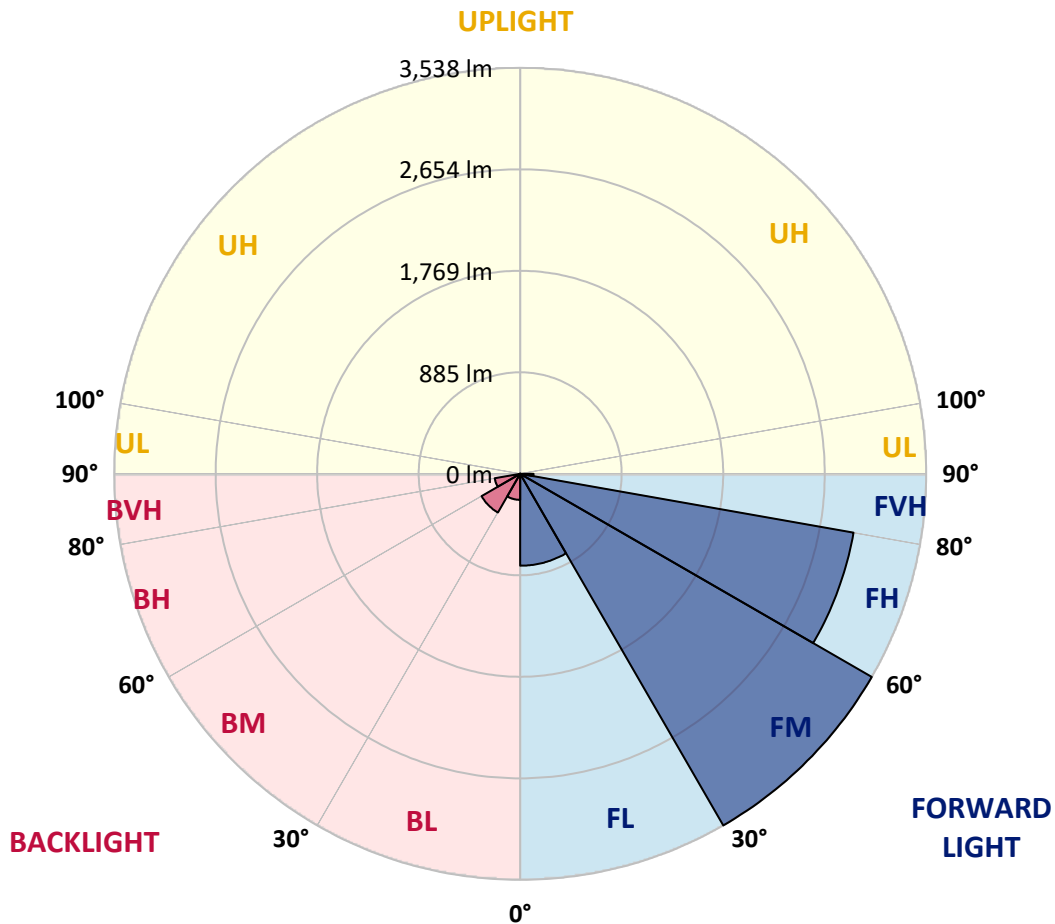
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.6	9.7			
FM (30°-60°)	3538.2	42.9			
FH (60°-80°)	2949.7	35.8			G2/5000
FVH (80°-90°)	117.0	1.4			G2/225
BL (0°-30°)	227.0	2.8	B1/500		
BM (30°-60°)	388.8	4.7	B1/1000		
BH (60°-80°)	225.4	2.7	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: B1-U0-G2

Type II Medium



REPORT NUMBER: P945969
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1657.4	1635.5	1639.7	1617.8	1607.6	1583.0	1557.3	1523.6	1486.1	1486.1
5°	1831.9	1817.9	1817.9	1792.3	1772.5	1733.9	1687.9	1628.5	1557.9	1550.9
7.5°	1938.9	1930.3	1935.7	1920.7	1904.6	1864.5	1809.9	1732.3	1632.2	1623.7
10°	1959.8	1959.2	1974.2	1978.5	1989.2	1968.9	1920.2	1830.8	1705.6	1693.3
12.5°	1879.0	1868.8	1905.7	1949.1	2010.1	2037.4	2012.2	1920.7	1772.5	1755.3
15°	1746.2	1748.4	1783.7	1850.6	1952.3	2049.7	2082.3	2008.5	1840.4	1820.1
17.5°	1670.2	1662.2	1692.7	1752.7	1865.0	2002.6	2115.0	2090.3	1912.7	1889.7
20°	1661.1	1660.6	1667.6	1694.9	1780.5	1935.1	2111.2	2170.1	1997.8	1971.0
22.5°	1724.3	1723.2	1717.3	1712.0	1735.5	1869.3	2095.2	2246.1	2099.4	2070.5
25°	1821.2	1819.6	1810.5	1777.8	1754.8	1834.0	2080.2	2316.7	2219.9	2187.7
27.5°	1939.4	1938.4	1921.8	1872.5	1813.1	1837.2	2072.7	2389.5	2359.0	2327.4
30°	2084.5	2082.3	2048.1	1978.5	1900.9	1888.1	2082.9	2471.4	2504.0	2479.9
32.5°	2266.4	2260.5	2215.6	2110.7	2002.0	1956.0	2102.1	2555.4	2675.8	2653.3
35°	2407.2	2398.1	2371.8	2279.3	2119.2	2039.5	2147.1	2654.9	2882.4	2862.6
37.5°	2528.1	2519.0	2497.6	2421.6	2287.3	2146.0	2219.3	2787.7	3126.4	3116.8
40°	2658.7	2643.7	2633.5	2552.2	2430.7	2299.6	2322.6	2942.9	3407.4	3408.4
42.5°	2759.3	2753.4	2754.5	2691.9	2569.3	2481.5	2459.6	3117.9	3744.0	3754.2
45°	2845.5	2840.6	2860.4	2816.6	2709.0	2600.9	2620.2	3315.9	4112.2	4133.1
47.5°	2911.8	2917.2	2945.5	2917.2	2854.0	2684.9	2762.5	3529.4	4499.1	4501.8
50°	2978.2	2980.3	3027.4	3013.5	2987.8	2791.4	2893.6	3768.1	4906.9	4911.7
52.5°	2999.0	2995.8	3070.8	3105.0	3106.1	2923.1	3063.3	4028.2	5306.7	5322.2
55°	2892.0	2901.1	3022.1	3161.2	3216.3	3105.0	3292.3	4357.3	5732.7	5739.1
57.5°	2368.6	2418.9	2686.5	3009.2	3287.5	3365.6	3621.4	4742.1	6224.5	6218.6
60°	1437.4	1497.4	1817.4	2523.8	3055.2	3627.3	4106.3	5338.2	6761.8	6745.2
62.5°	803.8	822.0	924.2	1510.8	2323.7	3460.9	4579.9	6104.1	7483.2	7427.0
65°	592.4	598.3	622.4	740.1	1142.0	2661.9	4476.1	7019.7	8496.8	8396.7
67.5°	514.8	520.7	544.3	560.3	510.0	1398.4	3687.8	7527.6	9783.8	9652.7
70°	433.5	436.7	474.7	485.4	365.0	532.0	2369.2	7370.8	10975.1	10881.5
72.5°	323.2	336.1	391.2	416.9	292.7	282.6	1115.3	6444.4	11176.9	11177.9
75°	219.4	231.2	294.3	343.0	225.8	198.0	450.1	4812.2	9732.5	9732.5
77.5°	149.8	159.5	205.0	269.2	171.3	135.9	233.3	3054.2	6982.3	7227.9
80°	66.4	72.2	132.2	195.3	130.0	87.8	132.2	1672.4	4222.4	4170.5
82.5°	32.6	37.5	84.6	122.0	84.0	54.1	69.6	795.3	1368.4	1300.4
85°	6.4	8.6	45.5	51.9	39.1	24.1	26.2	244.6	164.8	188.4
87.5°	0.0	0.0	13.9	9.6	4.3	5.4	5.4	21.9	12.8	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945969
 CATALOG NUMBER: GALN-SB1D-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1425.7	0°	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7
1449.8	2.5°	1430.5	1410.7	1367.3	1324.5	1280.6	1240.5	1212.7	1184.8	1167.7	1160.2
1481.9	5°	1441.7	1401.6	1310.6	1215.4	1121.2	1029.1	960.1	895.3	875.0	841.3
1519.9	7.5°	1459.4	1394.1	1250.7	1090.1	937.1	802.2	704.8	627.2	596.2	566.2
1552.5	10°	1471.2	1380.2	1171.5	956.9	749.8	598.3	505.2	449.0	428.7	410.5
1583.0	12.5°	1476.0	1354.5	1080.5	807.6	583.3	456.0	400.3	374.1	367.1	360.7
1611.9	15°	1480.3	1329.3	978.8	663.6	460.8	381.6	359.6	351.1	346.2	342.0
1641.3	17.5°	1484.0	1297.2	862.7	539.4	389.1	351.6	340.9	331.8	328.1	323.2
1683.6	20°	1496.8	1266.2	758.9	445.3	350.0	330.2	318.4	308.8	305.6	302.4
1743.6	22.5°	1520.9	1241.0	658.2	381.6	326.4	308.3	293.3	282.6	280.4	278.3
1816.3	25°	1549.8	1210.0	563.5	340.4	303.4	283.1	266.5	257.4	255.3	255.8
1900.4	27.5°	1586.8	1175.8	482.2	314.1	283.1	259.6	240.8	233.9	234.9	237.1
1997.2	30°	1627.4	1144.2	418.5	295.9	264.9	238.7	220.0	215.1	218.9	222.1
2126.7	32.5°	1687.9	1116.3	374.1	281.5	248.9	221.6	206.6	200.7	205.0	209.2
2292.1	35°	1770.3	1102.4	348.9	269.2	234.9	208.2	193.2	188.9	193.2	194.3
2493.9	37.5°	1871.5	1101.4	338.2	259.0	222.1	196.9	180.3	178.7	182.0	182.5
2736.3	40°	2002.0	1108.3	330.2	251.5	208.7	184.1	168.6	167.0	168.0	171.8
3027.9	42.5°	2167.4	1137.2	319.0	241.9	194.3	171.3	158.9	155.2	154.7	158.9
3354.4	45°	2375.0	1200.9	304.0	226.4	181.4	160.5	148.2	144.0	142.4	143.4
3691.5	47.5°	2601.4	1279.0	289.0	211.9	172.3	152.0	139.7	134.3	131.6	131.6
4006.8	50°	2820.8	1367.3	278.8	196.9	165.9	144.0	130.6	125.2	120.9	119.9
4331.1	52.5°	3038.1	1454.0	270.8	182.0	158.4	133.8	122.0	116.1	111.3	109.2
4652.2	55°	3236.1	1536.5	256.9	167.5	148.8	123.1	113.5	107.6	101.7	97.9
4977.5	57.5°	3426.1	1605.0	231.2	152.5	133.8	112.9	104.4	97.9	91.0	86.2
5306.7	60°	3599.0	1640.3	199.1	136.5	118.8	102.2	94.2	88.3	79.2	71.2
5630.4	62.5°	3730.6	1626.4	164.3	118.3	103.3	92.6	82.4	76.5	65.8	56.2
6018.4	65°	3865.5	1550.4	131.1	99.0	90.4	79.7	69.0	63.1	50.8	40.7
6543.4	67.5°	4040.5	1388.2	103.3	82.4	78.1	63.1	54.1	50.3	41.7	32.1
7107.0	70°	4152.9	1078.4	80.3	66.9	64.2	46.0	41.7	41.2	33.2	24.6
7069.0	72.5°	3844.6	706.9	61.5	50.8	46.0	30.0	32.1	32.1	24.1	16.6
6196.6	75°	3209.4	413.7	44.4	36.4	26.2	19.3	21.9	21.9	15.0	8.0
4416.7	77.5°	2292.1	220.5	29.4	22.5	13.4	8.6	11.8	11.2	4.8	0.5
1731.2	80°	876.6	76.0	13.9	9.1	3.7	1.6	1.1	0.5	0.5	0.0
270.3	82.5°	133.8	19.8	2.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0
57.3	85°	24.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	5.4	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>
1425.7
1161.3
843.4
565.7
409.9
360.7
342.0
323.2
302.9
276.7
254.7
236.0
221.0
208.2
193.7
181.4
171.3
158.4
145.0
131.6
119.3
108.1
96.3
84.0
69.0
52.4
38.0
30.0
21.9
14.4
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