

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: P945620

Luminaire Tested: **GALN-SB1C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6343 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

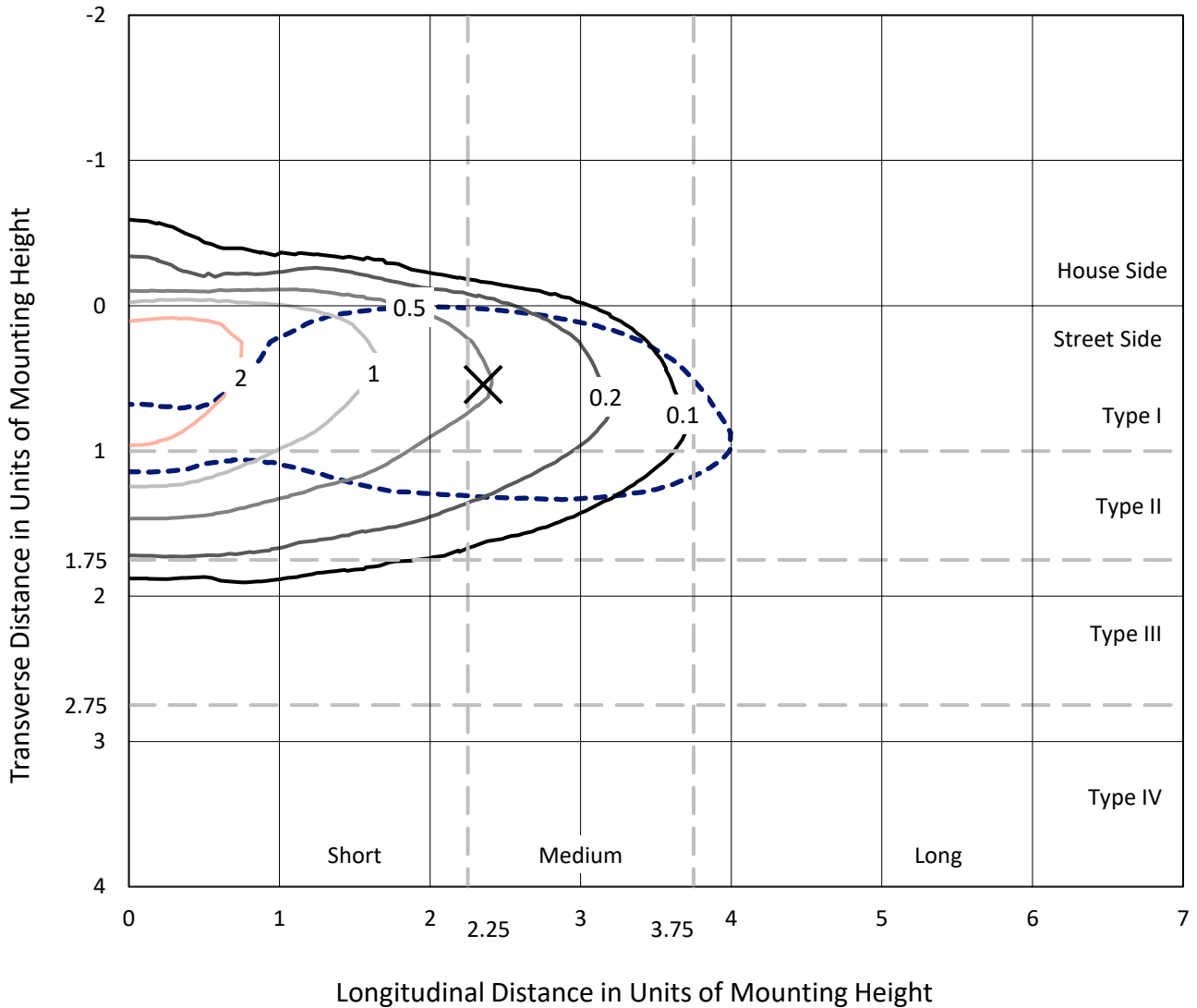
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

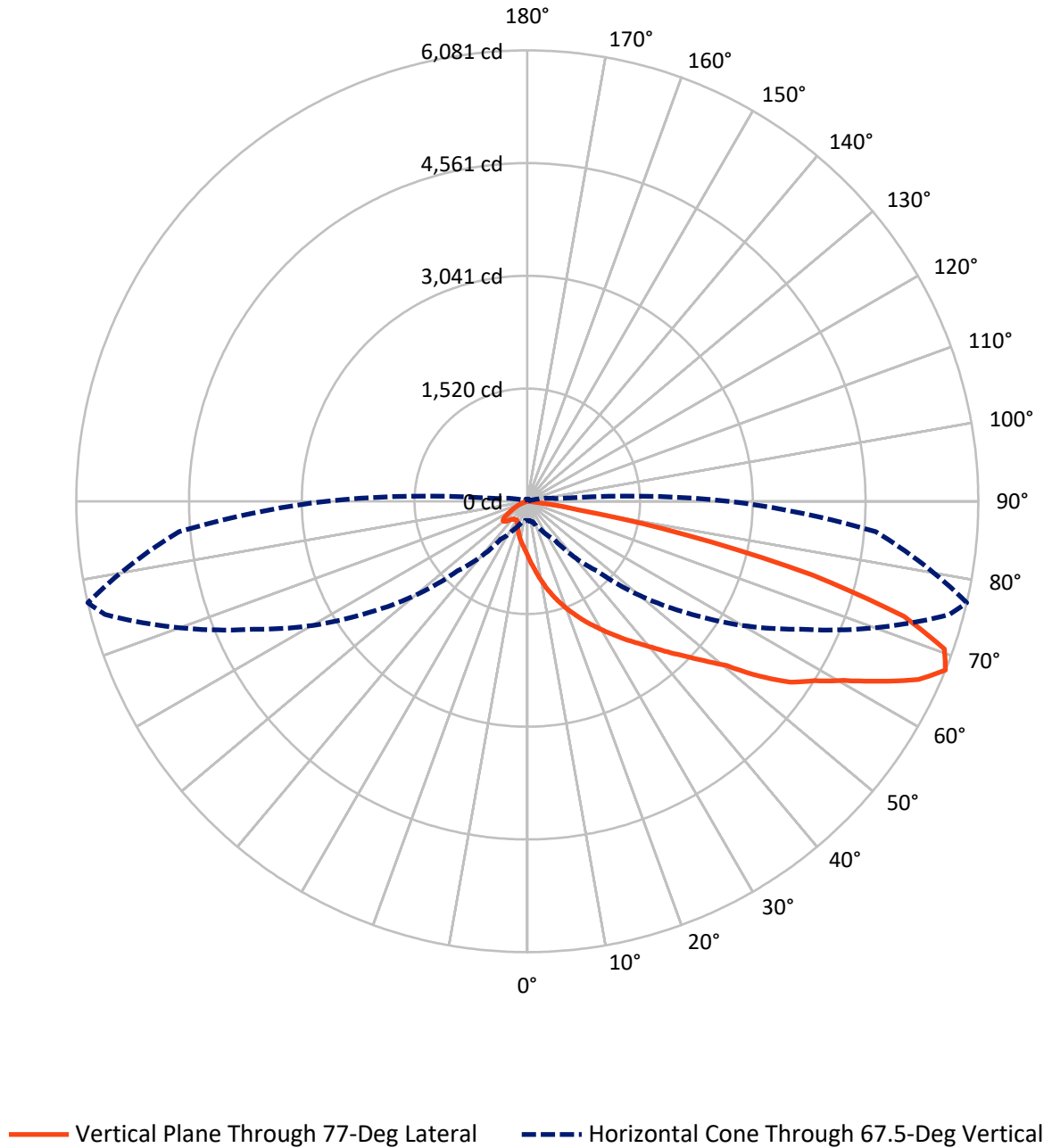
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	466.7	0.0	466.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5876.4	0.0	5876.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	6343.0	0.0	6343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.2
10°-20°	261.4	4.1
20°-30°	504.5	8.0
30°-40°	875.8	13.8
40°-50°	1271.7	20.0
50°-60°	1460.4	23.0
60°-70°	1267.9	20.0
70°-80°	597.2	9.4
80°-90°	29.5	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°	6343.0	100.0
0°-180°	6343.0	100.0

Coefficient of Utilization



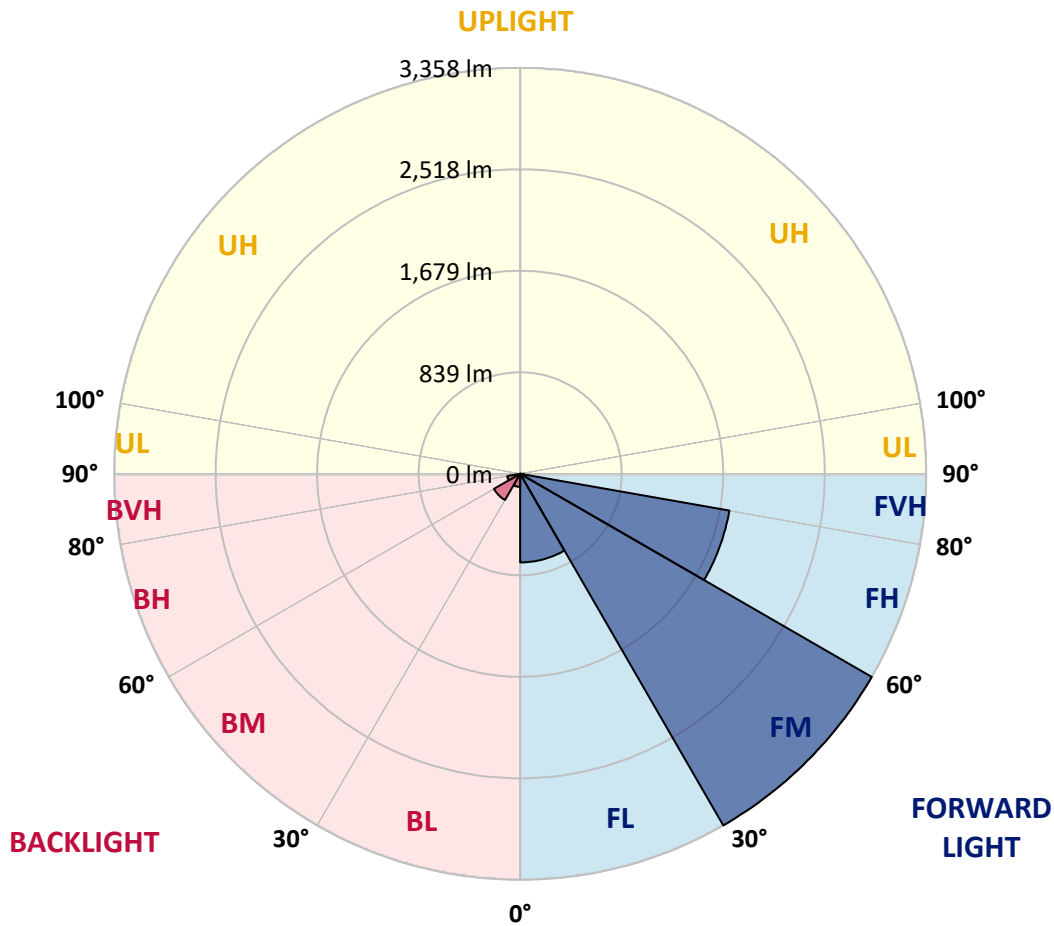
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.5	11.5			
FM (30°-60°)	3357.8	52.9			
FH (60°-80°)	1757.0	27.7			G1/1800
FVH (80°-90°)	29.0	0.5			G1/100
BL (0°-30°)	108.0	1.7	B0/110		
BM (30°-60°)	250.0	3.9	B1/1000		
BH (60°-80°)	108.0	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4
2.5°	1012.7	1019.0	1009.9	992.6	966.6	949.7	908.3	869.3	826.0	812.2
5°	1234.4	1239.9	1229.7	1210.8	1176.1	1143.0	1088.7	1007.2	922.5	895.3
7.5°	1398.7	1401.8	1397.9	1380.6	1347.5	1310.1	1249.4	1152.9	1027.2	997.3
10°	1516.8	1527.1	1525.9	1519.2	1497.2	1466.8	1402.2	1292.3	1144.6	1106.0
12.5°	1595.2	1606.6	1613.3	1628.3	1627.1	1607.8	1551.1	1434.9	1261.6	1216.3
15°	1618.1	1630.3	1655.9	1690.5	1721.3	1731.1	1691.3	1574.7	1390.4	1332.5
17.5°	1605.1	1624.0	1654.7	1709.5	1776.8	1821.3	1817.0	1709.8	1507.4	1441.2
20°	1633.8	1651.9	1676.0	1722.1	1800.4	1881.2	1913.5	1839.0	1623.6	1554.3
22.5°	1793.0	1789.8	1792.2	1799.7	1846.5	1926.5	1993.0	1956.4	1738.6	1667.7
25°	2045.0	2030.9	2006.8	1966.3	1954.4	1993.0	2062.4	2060.4	1859.9	1783.9
27.5°	2334.2	2331.8	2275.5	2177.8	2122.6	2107.7	2140.8	2161.6	1980.1	1898.9
30°	2611.1	2617.4	2541.3	2432.6	2331.4	2272.7	2242.8	2257.7	2102.2	2023.0
32.5°	2852.1	2858.8	2776.1	2648.9	2523.6	2452.7	2389.7	2352.7	2235.3	2149.0
35°	3055.7	3062.4	2967.5	2826.9	2693.4	2629.2	2557.9	2456.6	2369.2	2288.9
37.5°	3237.7	3235.8	3108.5	2966.7	2835.6	2784.8	2747.3	2584.7	2507.1	2429.5
40°	3345.3	3353.5	3244.8	3088.4	2961.2	2924.2	2921.8	2743.4	2666.2	2591.0
42.5°	3376.8	3391.3	3312.6	3184.2	3068.7	3028.6	3090.4	2915.1	2851.3	2778.1
45°	3320.0	3334.2	3298.4	3209.4	3142.0	3116.0	3235.4	3093.2	3049.1	2976.6
47.5°	3154.6	3172.3	3181.0	3162.1	3161.3	3187.7	3365.3	3280.7	3283.8	3209.8
50°	2834.4	2864.3	2943.9	3010.8	3114.4	3244.4	3491.8	3483.9	3548.5	3484.7
52.5°	2252.2	2294.8	2568.9	2752.1	2984.8	3233.8	3630.8	3810.0	4012.9	3919.5
55°	1809.9	1809.9	2032.8	2375.5	2732.0	3163.7	3691.5	4021.9	4329.2	4307.1
57.5°	1475.5	1493.2	1635.4	1938.3	2366.1	2996.7	3728.9	4155.1	4584.0	4567.9
60°	910.7	948.9	1217.5	1516.5	1949.7	2699.3	3705.3	4289.8	4893.2	4906.2
62.5°	512.8	527.0	646.8	1091.1	1516.1	2299.5	3524.5	4365.0	5288.7	5343.8
65°	354.1	361.2	407.3	679.1	1050.9	1830.8	3171.2	4318.1	5684.9	5796.4
67.5°	257.2	260.8	289.5	414.8	623.5	1327.4	2617.4	4081.8	5894.9	6081.2
70°	197.7	200.1	221.0	272.6	368.3	819.3	1900.9	3611.9	5742.8	5965.4
72.5°	160.7	163.1	179.2	201.7	244.2	484.5	1152.1	2933.2	5071.6	5311.9
75°	135.5	138.6	153.2	167.8	191.4	311.2	540.4	2042.7	3814.0	3971.5
77.5°	75.2	69.3	124.5	139.0	161.5	196.9	252.9	1202.1	2136.0	2179.7
80°	46.9	48.4	98.9	111.9	124.1	99.3	115.8	462.8	740.5	703.5
82.5°	2.8	6.3	76.0	80.7	85.1	42.5	43.7	157.2	178.4	163.9
85°	0.0	0.0	34.7	28.0	29.5	12.2	12.6	36.6	24.0	26.0
87.5°	0.0	0.0	0.0	0.8	0.0	1.2	2.4	3.2	1.2	1.6
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°
731.4	0°	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4
768.9	2.5°	741.3	713.7	657.8	603.0	558.5	517.2	487.6	459.7	445.5	444.7
818.5	5°	763.7	705.8	594.0	495.1	415.5	351.7	310.4	280.8	265.9	260.8
879.5	7.5°	795.3	708.2	538.0	400.6	306.8	252.1	228.5	219.0	215.8	212.3
948.5	10°	835.0	713.7	488.0	322.6	241.8	214.3	204.8	200.9	198.5	196.2
1026.1	12.5°	879.5	718.8	438.4	267.8	212.7	198.5	191.8	187.1	183.9	181.2
1105.6	15°	922.9	722.0	386.8	229.6	197.7	186.3	179.2	174.1	169.8	166.6
1183.6	17.5°	965.8	726.3	338.3	206.8	185.5	174.1	167.0	160.7	157.2	153.6
1265.5	20°	1013.5	725.5	292.7	190.6	173.3	161.9	154.4	148.5	144.9	141.0
1352.2	22.5°	1057.6	721.6	252.5	176.9	160.7	149.7	141.4	135.5	132.0	128.8
1440.8	25°	1108.4	718.4	219.0	164.2	148.9	137.9	128.8	123.3	119.3	116.6
1529.8	27.5°	1157.2	713.7	194.6	152.8	137.5	126.8	118.2	111.9	108.3	106.3
1621.6	30°	1205.3	712.5	185.5	141.8	127.2	116.6	107.9	102.0	99.3	98.5
1722.5	32.5°	1263.2	715.7	189.5	137.9	117.8	107.1	98.9	94.5	91.8	91.8
1834.7	35°	1325.0	714.9	195.4	141.4	111.5	97.7	91.4	88.6	85.9	85.9
1959.2	37.5°	1402.6	716.1	200.1	147.3	109.1	89.8	86.3	82.7	81.1	81.1
2095.5	40°	1518.4	755.1	197.7	152.4	108.3	84.3	77.2	76.0	74.8	74.8
2249.5	42.5°	1660.2	839.8	200.9	152.8	107.9	80.4	70.9	73.3	70.5	70.1
2423.2	45°	1815.4	932.3	221.0	144.6	107.5	78.4	67.7	70.5	66.2	66.2
2624.4	47.5°	1969.4	1024.1	241.5	132.7	106.3	78.0	65.0	63.4	62.2	62.6
2886.8	50°	2181.7	1098.9	249.3	116.6	103.6	77.2	59.9	60.3	59.5	60.3
3256.6	52.5°	2412.9	1114.7	239.9	98.5	95.7	74.8	56.3	57.9	57.5	58.3
3517.0	55°	2557.1	1097.8	198.1	81.9	83.5	65.4	52.8	55.9	55.9	55.9
3771.4	57.5°	2706.0	1025.7	140.6	66.6	69.3	53.6	49.6	54.0	53.6	53.2
4077.9	60°	2813.1	909.1	92.6	54.7	55.1	44.1	46.1	50.8	50.4	48.4
4393.8	62.5°	2893.1	780.3	59.5	46.5	42.1	39.8	42.1	46.1	44.5	40.2
4661.6	65°	2884.0	601.9	45.7	39.8	34.7	34.7	36.6	40.2	35.4	28.4
4712.8	67.5°	2715.8	407.3	37.8	33.5	29.1	28.8	30.3	33.5	30.3	24.0
4450.5	70°	2415.3	266.3	30.3	26.0	23.2	21.3	24.4	28.8	25.6	19.3
3788.8	72.5°	1960.4	162.3	22.8	18.9	16.9	13.8	19.3	23.6	20.5	14.2
2634.7	75°	1268.3	82.7	15.8	12.2	9.1	8.3	14.2	17.7	14.2	8.7
1169.0	77.5°	485.3	34.7	8.7	5.5	4.7	3.9	7.9	10.6	5.9	2.0
226.5	80°	93.4	14.6	4.3	2.8	2.4	1.6	1.2	0.8	0.0	0.0
40.2	82.5°	16.1	4.7	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
7.9	85°	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	2.0	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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180°
731.4
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