

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: P947678

Luminaire Tested: **GALN-SB2D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947678
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-SB2D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11986 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

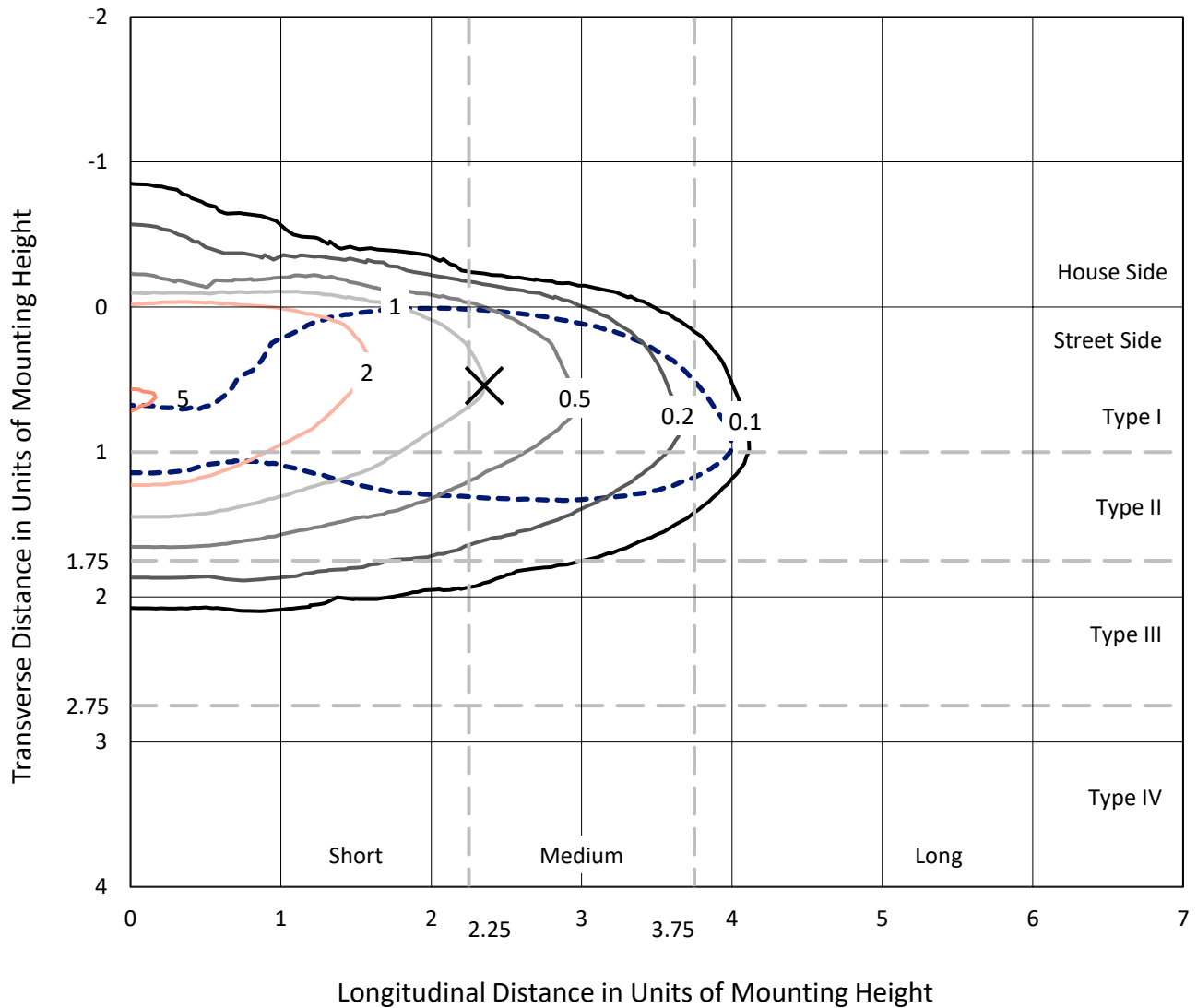
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

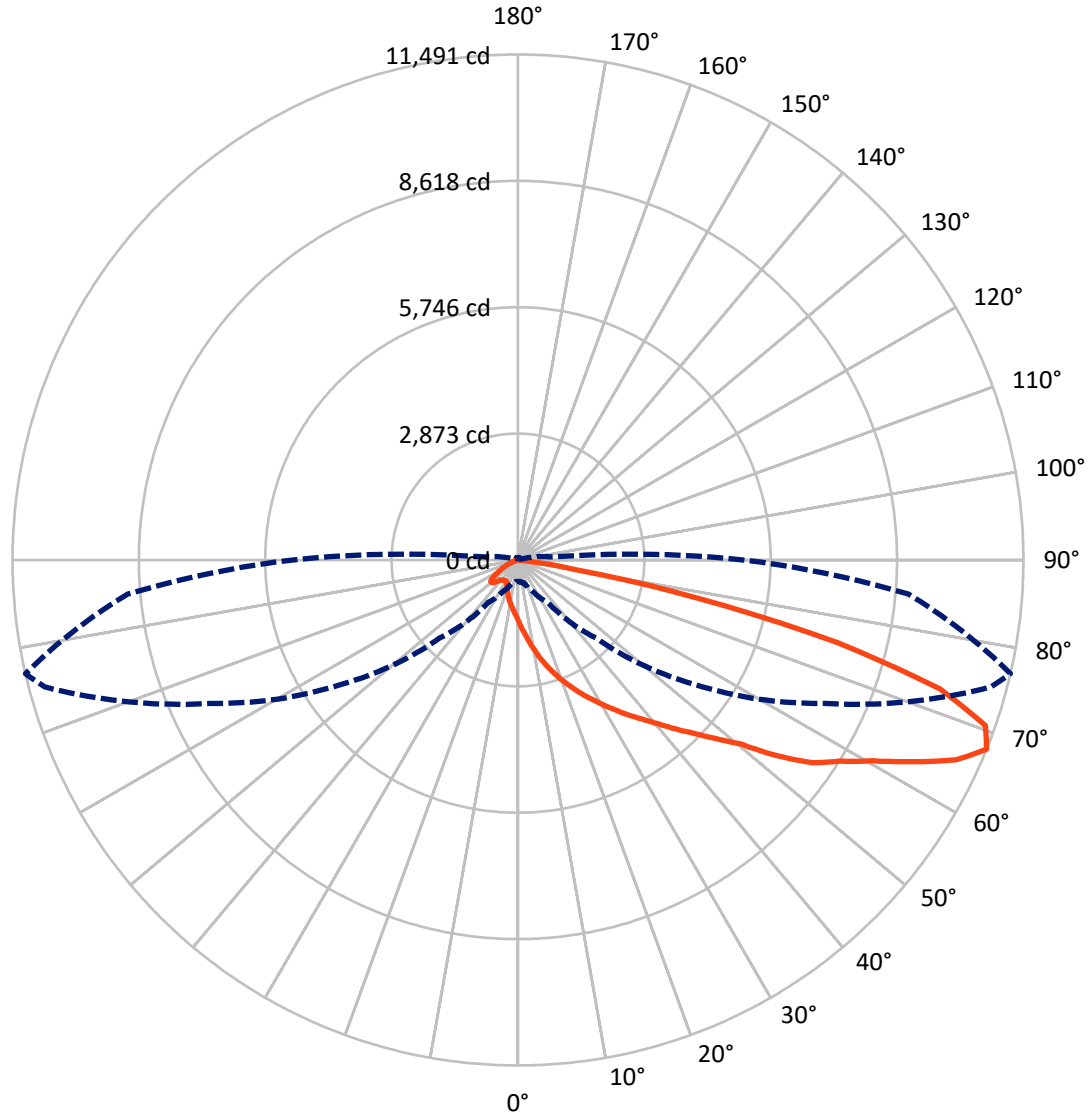
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.8	0.0	881.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11104.2	0.0	11104.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	11986.0	0.0	11986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	1.2
10°-20°	494.0	4.1
20°-30°	953.3	8.0
30°-40°	1655.0	13.8
40°-50°	2403.0	20.0
50°-60°	2759.5	23.0
60°-70°	2395.8	20.0
70°-80°	1128.4	9.4
80°-90°	55.8	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°	11986.0	100.0
0°-180°	11986.0	100.0

Coefficient of Utilization



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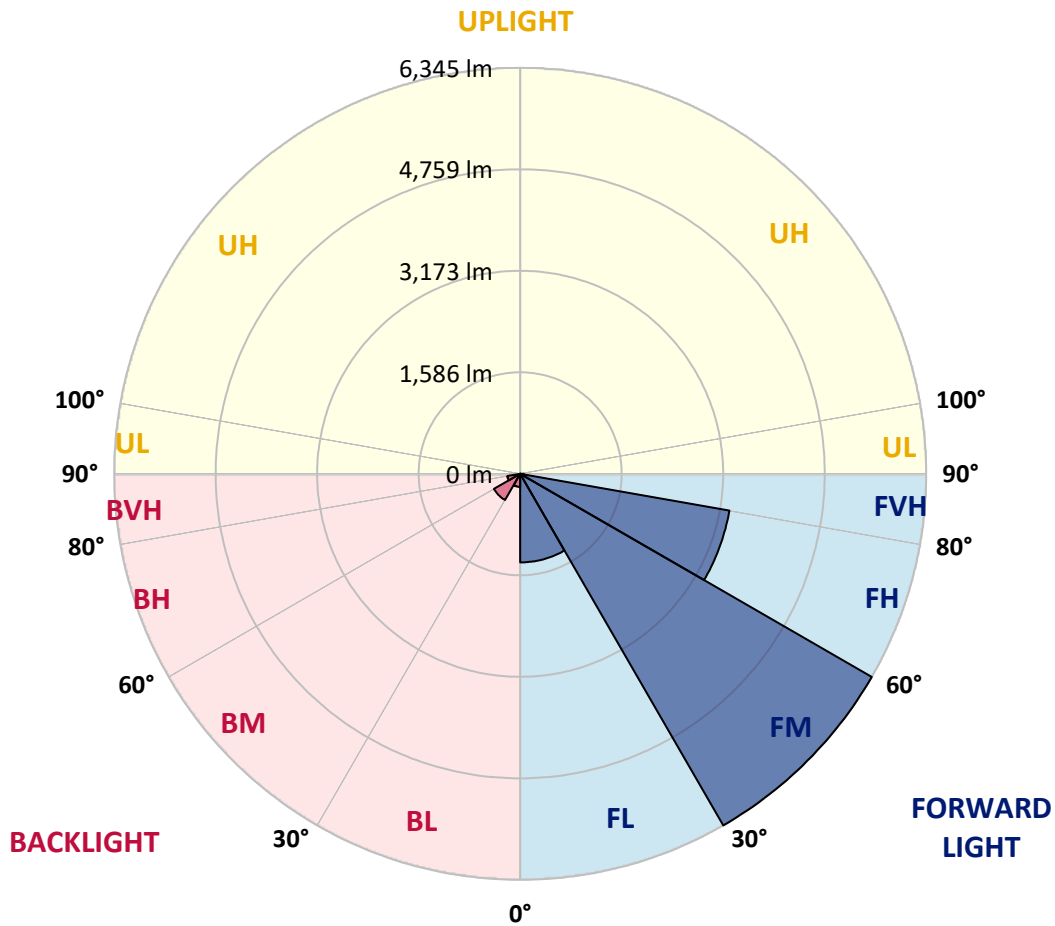
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.3	11.5			
FM (30°-60°)	6345.1	52.9			
FH (60°-80°)	3320.1	27.7			G2/5000
FVH (80°-90°)	54.8	0.5			G1/100
BL (0°-30°)	204.2	1.7	B1/500		
BM (30°-60°)	472.5	3.9	B1/1000		
BH (60°-80°)	204.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	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°	77°
0°	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2
2.5°	1913.6	1925.5	1908.4	1875.6	1826.5	1794.5	1716.4	1642.7	1560.8	1534.7
5°	2332.6	2343.1	2323.7	2288.0	2222.5	2160.0	2057.2	1903.2	1743.1	1691.8
7.5°	2643.0	2649.0	2641.5	2608.8	2546.2	2475.5	2360.9	2178.6	1941.1	1884.6
10°	2866.3	2885.6	2883.4	2870.8	2829.1	2771.8	2649.7	2442.0	2162.9	2090.0
12.5°	3014.4	3036.0	3048.6	3076.9	3074.7	3038.2	2931.0	2711.5	2384.0	2298.4
15°	3057.6	3080.7	3129.0	3194.5	3252.6	3271.2	3196.0	2975.7	2627.4	2518.0
17.5°	3033.0	3068.7	3126.8	3230.3	3357.5	3441.6	3433.4	3231.0	2848.4	2723.4
20°	3087.3	3121.6	3167.0	3254.1	3402.2	3554.8	3615.8	3475.1	3068.0	2937.0
22.5°	3388.0	3382.1	3386.6	3400.7	3489.3	3640.4	3766.1	3696.9	3285.3	3151.4
25°	3864.4	3837.6	3792.2	3715.5	3693.2	3766.1	3897.1	3893.4	3514.6	3370.9
27.5°	4410.7	4406.2	4299.8	4115.2	4011.0	3982.7	4045.3	4084.7	3741.6	3588.3
30°	4934.0	4945.9	4802.2	4596.8	4405.5	4294.6	4238.0	4266.3	3972.3	3822.7
32.5°	5389.5	5402.1	5245.8	5005.4	4768.7	4634.7	4515.7	4445.7	4223.9	4060.9
35°	5774.3	5786.9	5607.5	5341.8	5089.5	4968.2	4833.5	4642.2	4477.0	4325.1
37.5°	6118.1	6114.4	5874.0	5606.1	5358.2	5262.2	5191.5	4884.1	4737.5	4590.8
40°	6321.3	6337.0	6131.5	5836.0	5595.6	5525.7	5521.2	5184.0	5038.2	4896.0
42.5°	6380.9	6408.4	6259.5	6016.9	5798.8	5722.9	5839.8	5508.6	5388.0	5249.5
45°	6273.7	6300.5	6232.8	6064.5	5937.3	5888.1	6113.7	5845.0	5761.6	5624.7
47.5°	5961.1	5994.6	6011.0	5975.2	5973.7	6023.6	6359.3	6199.3	6205.2	6065.3
50°	5356.0	5412.5	5562.9	5689.4	5885.2	6130.8	6598.2	6583.3	6705.4	6584.8
52.5°	4255.9	4336.3	4854.3	5200.4	5640.3	6110.7	6860.9	7199.6	7582.9	7406.5
55°	3420.1	3420.1	3841.3	4488.9	5162.5	5978.2	6975.6	7600.0	8180.6	8138.9
57.5°	2788.1	2821.6	3090.3	3662.7	4471.0	5662.6	7046.3	7851.6	8662.1	8631.6
60°	1720.8	1793.0	2300.6	2865.5	3684.3	5100.7	7001.6	8106.2	9246.4	9271.0
62.5°	969.1	995.9	1222.1	2061.7	2864.8	4345.2	6660.0	8248.3	9993.7	10097.9
65°	669.1	682.5	769.6	1283.2	1985.8	3459.5	5992.3	8159.7	10742.5	10953.1
67.5°	486.0	492.7	547.1	783.7	1178.2	2508.3	4945.9	7713.2	11139.2	11491.2
70°	373.6	378.1	417.6	515.1	695.9	1548.1	3592.0	6825.2	10851.9	11272.4
72.5°	303.7	308.1	338.7	381.1	461.5	915.5	2177.1	5542.8	9583.6	10037.6
75°	256.0	262.0	289.5	317.1	361.7	588.0	1021.2	3859.9	7207.0	7504.8
77.5°	142.2	131.0	235.2	262.7	305.2	372.1	477.8	2271.6	4036.3	4118.9
80°	88.6	91.5	186.8	211.4	234.5	187.6	218.8	874.6	1399.3	1329.3
82.5°	5.2	11.9	143.6	152.6	160.8	80.4	82.6	297.0	337.2	309.6
85°	0.0	0.0	65.5	52.8	55.8	23.1	23.8	69.2	45.4	49.1
87.5°	0.0	0.0	0.0	1.5	0.0	2.2	4.5	6.0	2.2	3.0
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°
1382.2	0°	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2	1382.2
1452.9	2.5°	1400.8	1348.7	1243.0	1139.5	1055.4	977.3	921.4	868.6	841.8	840.3
1546.7	5°	1443.2	1333.8	1122.4	935.6	785.2	664.7	586.5	530.7	502.4	492.7
1662.0	7.5°	1502.7	1338.2	1016.7	757.0	579.8	476.4	431.7	413.8	407.9	401.2
1792.3	10°	1577.9	1348.7	922.2	609.6	457.0	404.9	387.0	379.6	375.1	370.7
1938.9	12.5°	1662.0	1358.3	828.4	506.1	401.9	375.1	362.5	353.5	347.6	342.4
2089.2	15°	1743.9	1364.3	730.9	433.9	373.6	352.1	338.7	329.0	320.8	314.8
2236.6	17.5°	1825.0	1372.5	639.4	390.8	350.6	329.0	315.6	303.7	297.0	290.3
2391.4	20°	1915.1	1371.0	553.0	360.2	327.5	305.9	291.8	280.6	273.9	266.5
2555.2	22.5°	1998.4	1363.6	477.1	334.2	303.7	282.8	267.2	256.0	249.3	243.4
2722.6	25°	2094.5	1357.6	413.8	310.4	281.3	260.5	243.4	233.0	225.5	220.3
2890.9	27.5°	2186.7	1348.7	367.7	288.8	259.8	239.7	223.3	211.4	204.7	201.0
3064.3	30°	2277.6	1346.4	350.6	267.9	240.4	220.3	203.9	192.8	187.6	186.1
3254.8	32.5°	2387.0	1352.4	358.0	260.5	222.5	202.4	186.8	178.6	173.4	173.4
3466.9	35°	2503.8	1350.9	369.2	267.2	210.6	184.6	172.7	167.5	162.3	162.3
3702.1	37.5°	2650.4	1353.1	378.1	278.4	206.2	169.7	163.0	156.3	153.3	153.3
3959.7	40°	2869.3	1426.8	373.6	288.0	204.7	159.3	145.9	143.6	141.4	141.4
4250.7	42.5°	3137.2	1586.8	379.6	288.8	203.9	151.8	134.0	138.4	133.2	132.5
4578.9	45°	3430.5	1761.8	417.6	273.2	203.2	148.1	128.0	133.2	125.0	125.0
4959.3	47.5°	3721.5	1935.2	456.3	250.8	201.0	147.4	122.8	119.8	117.6	118.3
5455.0	50°	4122.7	2076.6	471.1	220.3	195.8	145.9	113.1	113.9	112.4	113.9
6153.9	52.5°	4559.6	2106.4	453.3	186.1	180.9	141.4	106.4	109.4	108.7	110.2
6645.8	55°	4832.0	2074.4	374.4	154.8	157.8	123.6	99.7	105.7	105.7	105.7
7126.7	57.5°	5113.3	1938.2	265.7	125.8	131.0	101.2	93.8	102.0	101.2	100.5
7705.7	60°	5315.8	1717.8	174.9	103.5	104.2	83.4	87.1	96.0	95.3	91.5
8302.6	62.5°	5466.9	1474.5	112.4	87.8	79.6	75.2	79.6	87.1	84.1	75.9
8808.8	65°	5449.8	1137.3	86.3	75.2	65.5	65.5	69.2	75.9	67.0	53.6
8905.5	67.5°	5131.9	769.6	71.5	63.3	55.1	54.3	57.3	63.3	57.3	45.4
8409.8	70°	4564.0	503.1	57.3	49.1	43.9	40.2	46.1	54.3	48.4	36.5
7159.4	72.5°	3704.4	306.7	43.2	35.7	32.0	26.1	36.5	44.7	38.7	26.8
4978.6	75°	2396.6	156.3	29.8	23.1	17.1	15.6	26.8	33.5	26.8	16.4
2209.1	77.5°	917.0	65.5	16.4	10.4	8.9	7.4	14.9	20.1	11.2	3.7
428.0	80°	176.4	27.5	8.2	5.2	4.5	3.0	2.2	1.5	0.0	0.0
75.9	82.5°	30.5	8.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
14.9	85°	10.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	3.7	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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180°
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1382.2
838.8
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