

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: P945515

Luminaire Tested: **GALN-SB1B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945515
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-SB1B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA 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: 3456 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

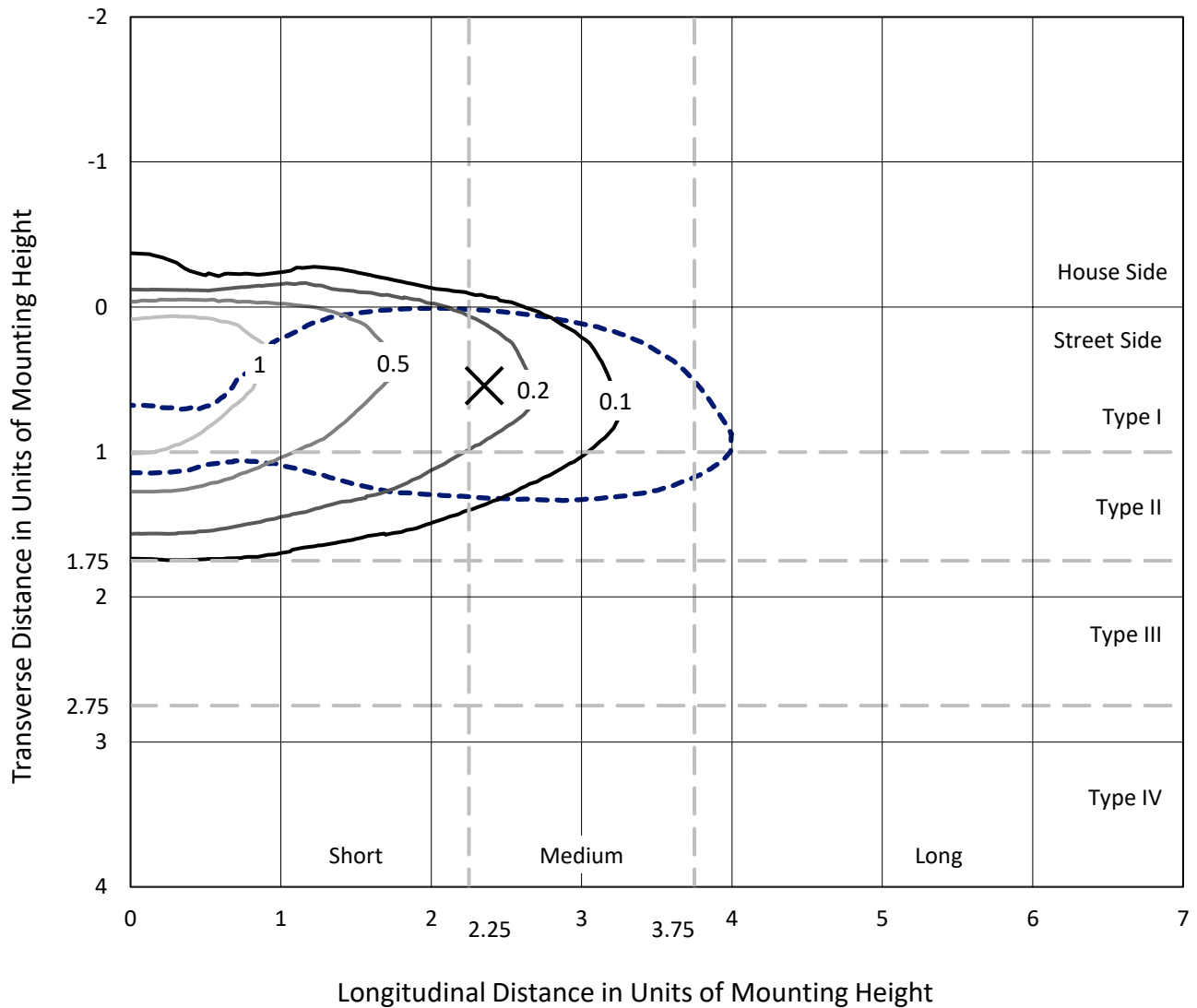
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

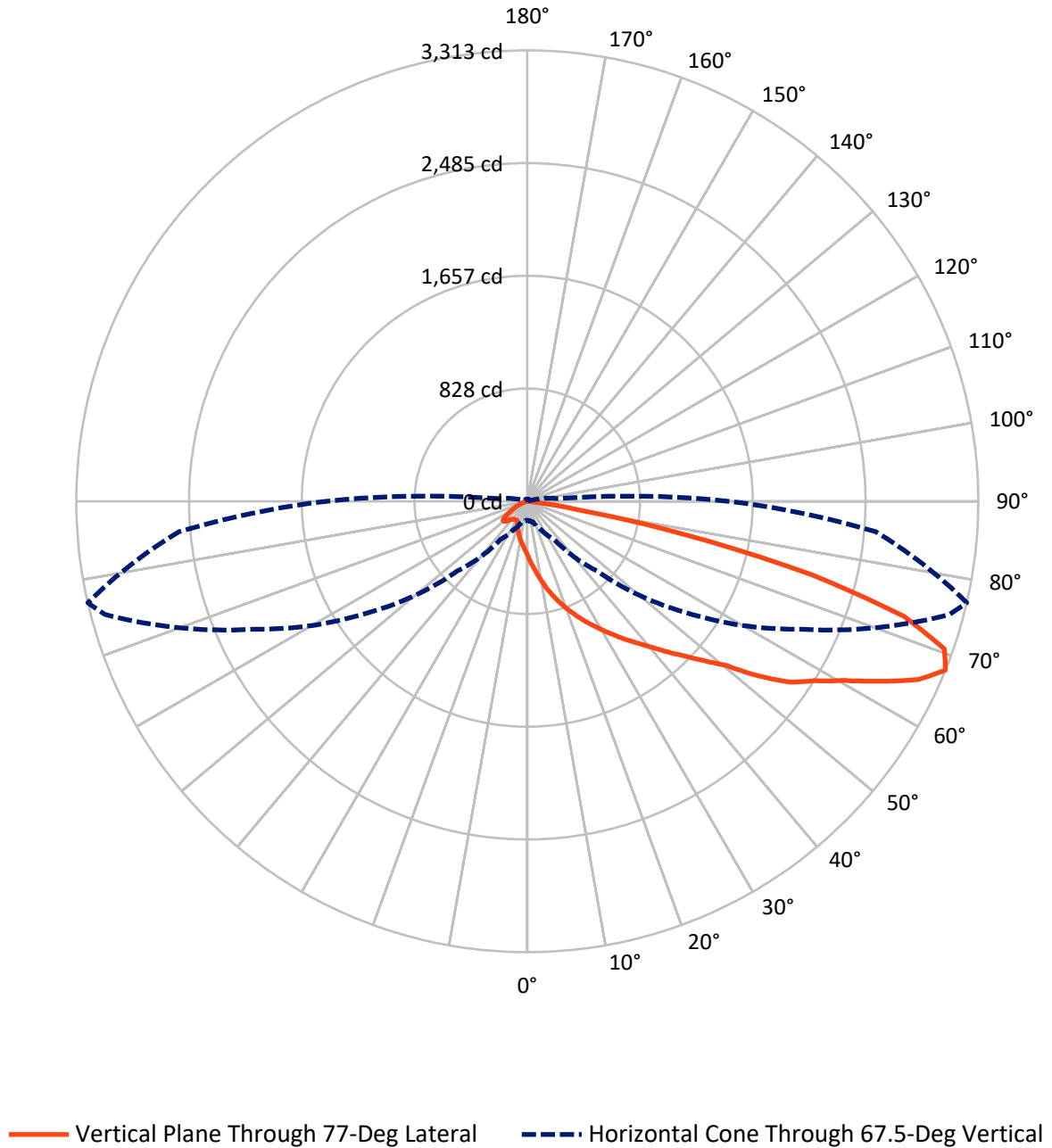
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	254.3	0.0	254.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3201.7	0.0	3201.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	3456.0	0.0	3456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	1.2
10°-20°	142.4	4.1
20°-30°	274.9	8.0
30°-40°	477.2	13.8
40°-50°	692.9	20.0
50°-60°	795.7	23.0
60°-70°	690.8	20.0
70°-80°	325.4	9.4
80°-90°	16.1	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°	3456.0	100.0
0°-180°	3456.0	100.0

Coefficient of Utilization



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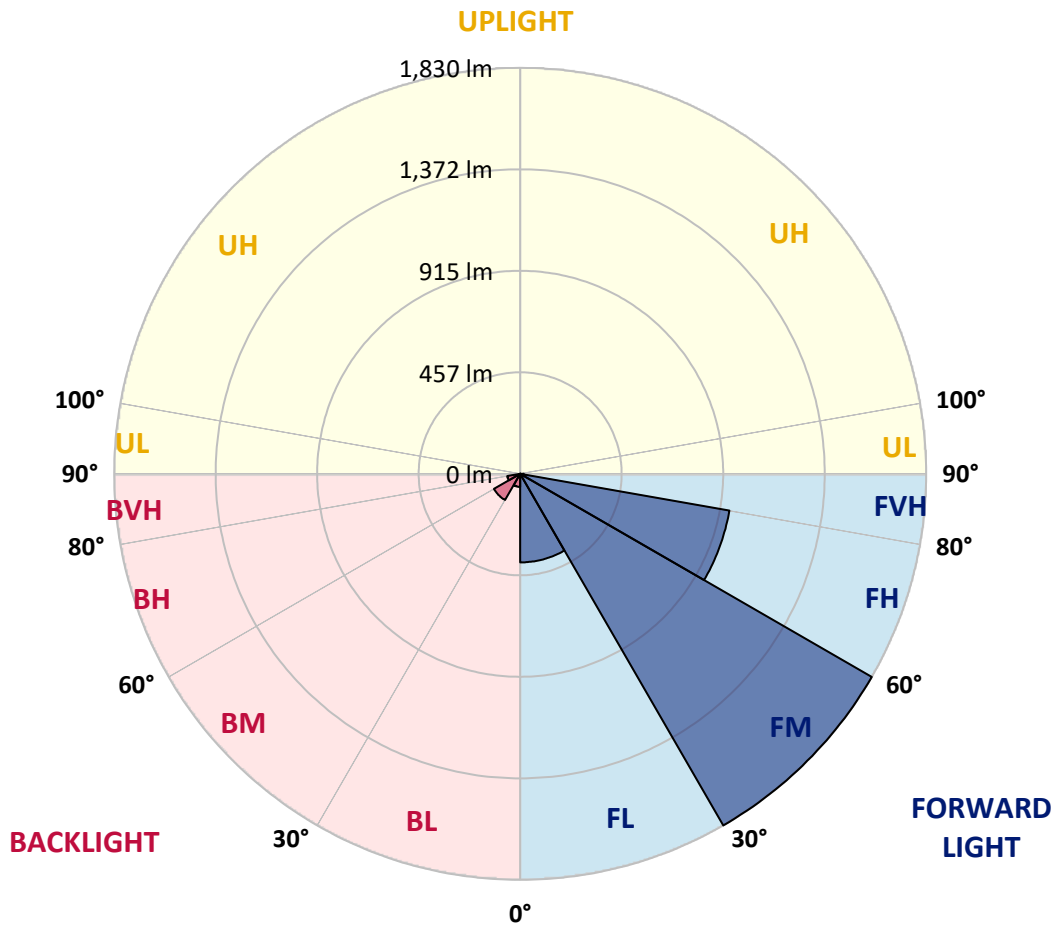
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.1	11.5			
FM (30°-60°)	1829.5	52.9			
FH (60°-80°)	957.3	27.7			G1/1800
FVH (80°-90°)	15.8	0.5			G1/100
BL (0°-30°)	58.9	1.7	B0/110		
BM (30°-60°)	136.2	3.9	B0/220		
BH (60°-80°)	58.9	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	551.8	555.2	550.3	540.8	526.6	517.4	494.9	473.6	450.0	442.5
5°	672.6	675.6	670.0	659.7	640.8	622.8	593.2	548.8	502.6	487.8
7.5°	762.1	763.8	761.6	752.2	734.2	713.8	680.7	628.2	559.7	543.4
10°	826.5	832.0	831.4	827.7	815.7	799.2	764.0	704.1	623.7	602.6
12.5°	869.2	875.4	879.0	887.2	886.5	876.0	845.1	781.8	687.4	662.7
15°	881.6	888.3	902.2	921.1	937.8	943.2	921.5	858.0	757.6	726.0
17.5°	874.5	884.8	901.6	931.4	968.1	992.3	990.0	931.6	821.3	785.3
20°	890.2	900.1	913.2	938.3	981.0	1025.0	1042.6	1002.0	884.6	846.8
22.5°	976.9	975.2	976.5	980.5	1006.1	1049.6	1085.9	1066.0	947.3	908.7
25°	1114.2	1106.5	1093.4	1071.3	1064.9	1085.9	1123.7	1122.6	1013.4	972.0
27.5°	1271.8	1270.5	1239.8	1186.6	1156.5	1148.4	1166.4	1177.8	1078.8	1034.6
30°	1422.6	1426.1	1384.7	1325.4	1270.3	1238.3	1222.0	1230.1	1145.4	1102.2
32.5°	1554.0	1557.6	1512.6	1443.2	1375.0	1336.4	1302.0	1281.9	1217.9	1170.9
35°	1664.9	1668.6	1616.9	1540.2	1467.5	1432.5	1393.7	1338.5	1290.9	1247.1
37.5°	1764.1	1763.0	1693.7	1616.4	1545.0	1517.3	1496.9	1408.3	1366.0	1323.7
40°	1822.7	1827.2	1767.9	1682.7	1613.4	1593.3	1592.0	1494.7	1452.7	1411.7
42.5°	1839.8	1847.8	1804.9	1734.9	1672.0	1650.1	1683.8	1588.3	1553.5	1513.6
45°	1808.9	1816.7	1797.1	1748.6	1711.9	1697.8	1762.8	1685.3	1661.3	1621.8
47.5°	1718.8	1728.5	1733.2	1722.9	1722.4	1736.8	1833.6	1787.5	1789.2	1748.8
50°	1544.3	1560.6	1604.0	1640.5	1696.9	1767.7	1902.5	1898.2	1933.4	1898.6
52.5°	1227.1	1250.3	1399.7	1499.5	1626.3	1761.9	1978.3	2075.9	2186.4	2135.6
55°	986.1	986.1	1107.6	1294.3	1488.5	1723.7	2011.3	2191.4	2358.8	2346.7
57.5°	803.9	813.6	891.1	1056.1	1289.2	1632.7	2031.7	2263.9	2497.6	2488.8
60°	496.2	517.0	663.4	826.2	1062.3	1470.7	2018.8	2337.3	2666.1	2673.2
62.5°	279.4	287.1	352.4	594.5	826.0	1252.9	1920.3	2378.3	2881.5	2911.6
65°	192.9	196.8	221.9	370.0	572.6	997.5	1727.8	2352.8	3097.4	3158.2
67.5°	140.1	142.1	157.7	226.0	339.7	723.2	1426.1	2224.0	3211.8	3313.3
70°	107.7	109.0	120.4	148.5	200.7	446.4	1035.7	1968.0	3129.0	3250.2
72.5°	87.6	88.8	97.6	109.9	133.1	264.0	627.7	1598.2	2763.3	2894.2
75°	73.8	75.5	83.5	91.4	104.3	169.5	294.4	1113.0	2078.1	2163.9
77.5°	41.0	37.8	67.8	75.8	88.0	107.3	137.8	655.0	1163.8	1187.6
80°	25.5	26.4	53.9	60.9	67.6	54.1	63.1	252.2	403.5	383.3
82.5°	1.5	3.4	41.4	44.0	46.4	23.2	23.8	85.6	97.2	89.3
85°	0.0	0.0	18.9	15.2	16.1	6.7	6.9	20.0	13.1	14.2
87.5°	0.0	0.0	0.0	0.4	0.0	0.6	1.3	1.7	0.6	0.9
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°
398.5	0°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
418.9	2.5°	403.9	388.9	358.4	328.6	304.3	281.8	265.7	250.4	242.7	242.3
446.0	5°	416.1	384.6	323.6	269.8	226.4	191.6	169.1	153.0	144.9	142.1
479.2	7.5°	433.3	385.9	293.2	218.3	167.2	137.3	124.5	119.3	117.6	115.7
516.8	10°	455.0	388.9	265.9	175.8	131.8	116.7	111.6	109.5	108.2	106.9
559.1	12.5°	479.2	391.7	238.9	145.9	115.9	108.2	104.5	101.9	100.2	98.7
602.4	15°	502.8	393.4	210.7	125.1	107.7	101.5	97.6	94.9	92.5	90.8
644.9	17.5°	526.2	395.7	184.3	112.7	101.1	94.9	91.0	87.6	85.6	83.7
689.5	20°	552.2	395.3	159.5	103.9	94.4	88.2	84.1	80.9	79.0	76.8
736.8	22.5°	576.2	393.2	137.6	96.4	87.6	81.6	77.0	73.8	71.9	70.2
785.0	25°	603.9	391.4	119.3	89.5	81.1	75.1	70.2	67.2	65.0	63.5
833.5	27.5°	630.5	388.9	106.0	83.3	74.9	69.1	64.4	60.9	59.0	57.9
883.5	30°	656.7	388.2	101.1	77.3	69.3	63.5	58.8	55.6	54.1	53.7
938.5	32.5°	688.2	389.9	103.2	75.1	64.2	58.4	53.9	51.5	50.0	50.0
999.6	35°	721.9	389.5	106.4	77.0	60.7	53.2	49.8	48.3	46.8	46.8
1067.5	37.5°	764.2	390.2	109.0	80.3	59.4	48.9	47.0	45.1	44.2	44.2
1141.7	40°	827.3	411.4	107.7	83.1	59.0	45.9	42.1	41.4	40.8	40.8
1225.6	42.5°	904.6	457.5	109.5	83.3	58.8	43.8	38.6	39.9	38.4	38.2
1320.3	45°	989.1	508.0	120.4	78.8	58.6	42.7	36.9	38.4	36.1	36.1
1429.9	47.5°	1073.0	558.0	131.6	72.3	57.9	42.5	35.4	34.6	33.9	34.1
1572.9	50°	1188.7	598.8	135.8	63.5	56.4	42.1	32.6	32.8	32.4	32.8
1774.4	52.5°	1314.7	607.3	130.7	53.7	52.1	40.8	30.7	31.5	31.3	31.8
1916.2	55°	1393.2	598.1	107.9	44.6	45.5	35.6	28.8	30.5	30.5	30.5
2054.9	57.5°	1474.4	558.8	76.6	36.3	37.8	29.2	27.0	29.4	29.2	29.0
2221.8	60°	1532.7	495.3	50.4	29.8	30.0	24.0	25.1	27.7	27.5	26.4
2394.0	62.5°	1576.3	425.1	32.4	25.3	23.0	21.7	23.0	25.1	24.3	21.9
2539.9	65°	1571.4	327.9	24.9	21.7	18.9	18.9	20.0	21.9	19.3	15.5
2567.8	67.5°	1479.7	221.9	20.6	18.2	15.9	15.7	16.5	18.2	16.5	13.1
2424.9	70°	1316.0	145.1	16.5	14.2	12.7	11.6	13.3	15.7	13.9	10.5
2064.3	72.5°	1068.1	88.4	12.4	10.3	9.2	7.5	10.5	12.9	11.2	7.7
1435.5	75°	691.0	45.1	8.6	6.7	4.9	4.5	7.7	9.7	7.7	4.7
637.0	77.5°	264.4	18.9	4.7	3.0	2.6	2.1	4.3	5.8	3.2	1.1
123.4	80°	50.9	7.9	2.4	1.5	1.3	0.9	0.6	0.4	0.0	0.0
21.9	82.5°	8.8	2.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.3	85°	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	87.5°	1.1	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°
398.5
241.9
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36.1
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