

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: P939162

Luminaire Tested: **GALN-SB1C-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

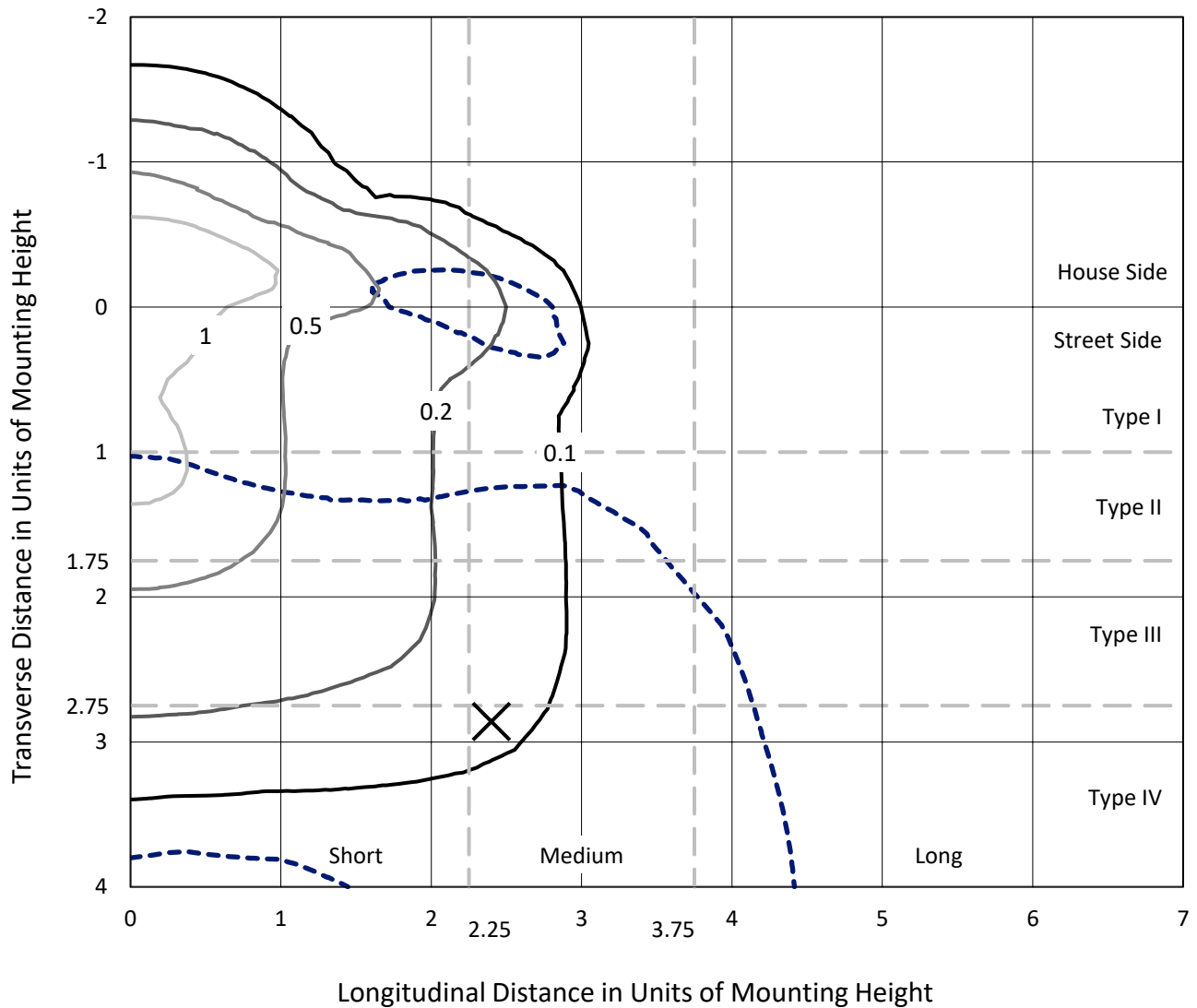
Lumens per Lamp: N/A  
Luminaire Lumens: 7103 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

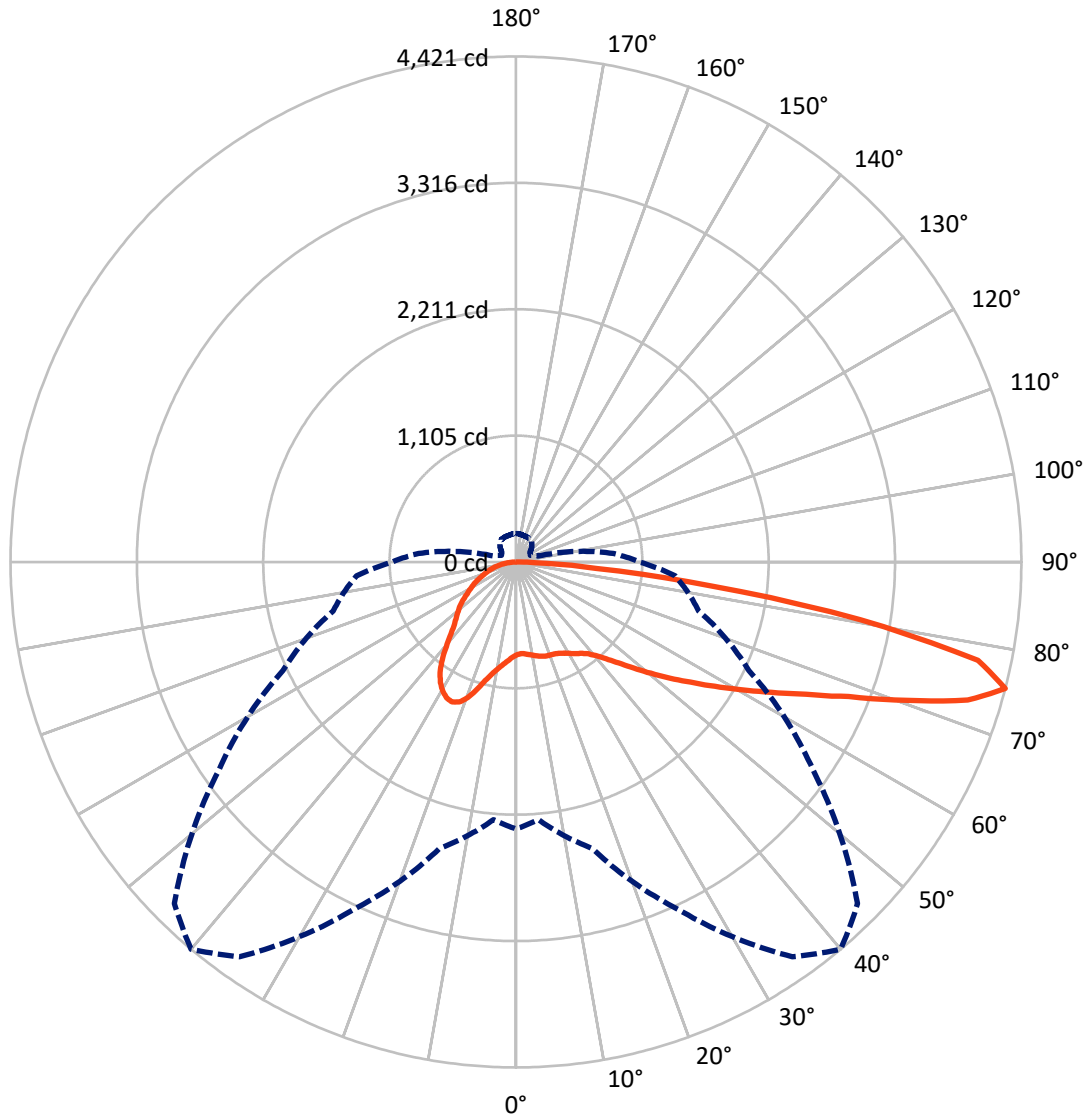
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2200.7	0.0	2200.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	4902.2	0.0	4902.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	7103.0	0.0	7103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.1
10°-20°	272.2	3.8
20°-30°	497.0	7.0
30°-40°	704.9	9.9
40°-50°	951.9	13.4
50°-60°	1280.5	18.0
60°-70°	1625.3	22.9
70°-80°	1475.0	20.8
80°-90°	215.0	3.0
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°	7103.0	100.0
0°-180°	7103.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939162

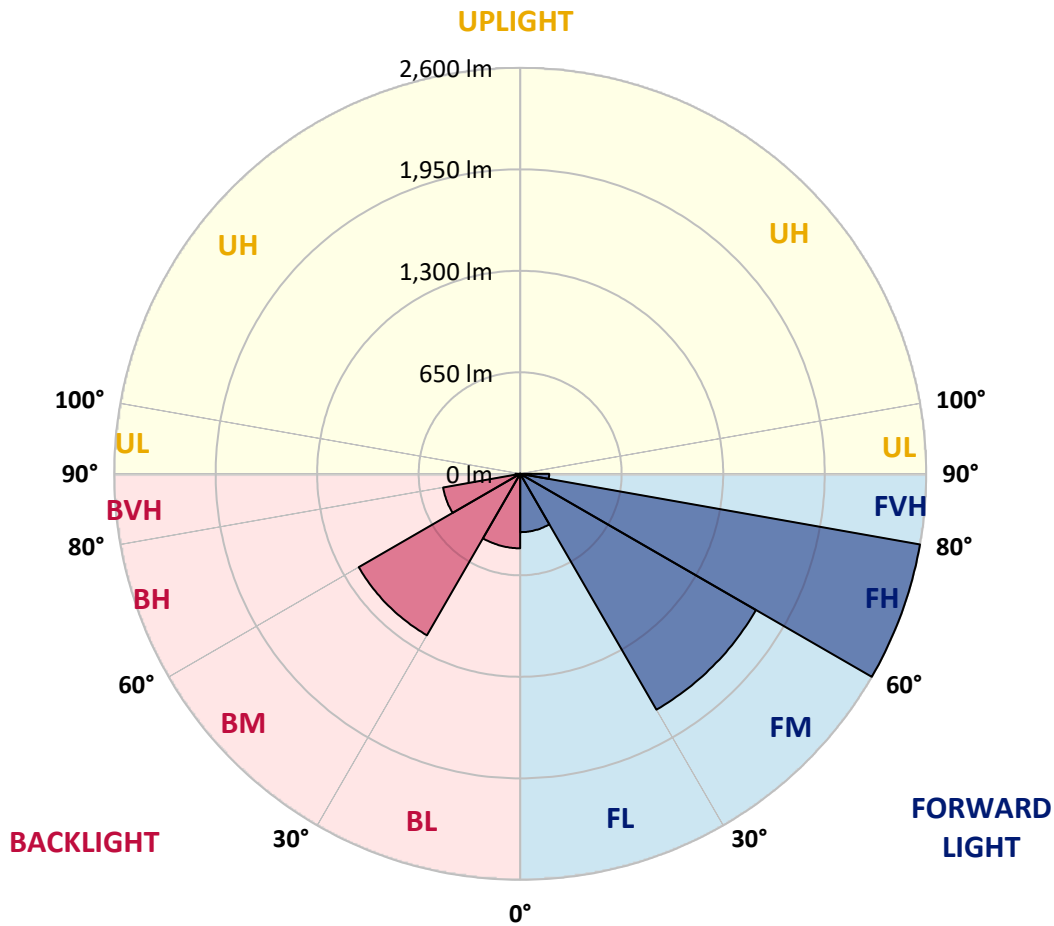
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.6	5.3			
FM (30°-60°)	1743.6	24.5			
FH (60°-80°)	2599.6	36.6			G2/5000
FVH (80°-90°)	185.4	2.6			G2/225
BL (0°-30°)	476.7	6.7	B1/500		
BM (30°-60°)	1193.7	16.8	B2/2500		
BH (60°-80°)	500.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	29.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2
2.5°	799.8	804.3	803.2	801.7	801.7	802.1	801.7	804.3	807.0	809.6
5°	808.1	812.6	810.4	808.5	807.0	806.6	805.5	805.1	806.6	810.0
7.5°	824.3	828.8	825.4	822.0	819.0	817.5	816.0	813.7	812.6	814.5
10°	842.4	846.9	842.8	836.7	831.8	829.9	828.4	826.2	824.7	825.8
12.5°	860.5	865.0	859.3	851.0	844.6	843.5	841.6	840.9	840.5	840.1
15°	877.4	881.2	874.0	864.2	857.4	855.6	853.7	854.8	856.7	859.0
17.5°	890.6	894.4	883.8	871.0	864.6	863.9	862.7	866.5	871.8	877.4
20°	902.7	906.4	892.9	875.5	868.0	868.0	868.4	876.3	883.8	892.1
22.5°	919.6	922.6	906.0	882.3	871.4	872.1	875.2	883.1	892.5	903.8
25°	944.8	947.1	926.8	895.1	882.7	884.9	887.6	891.4	900.4	913.6
27.5°	985.5	987.4	960.7	917.7	898.9	902.7	906.4	903.8	907.9	919.2
30°	1042.8	1043.9	1010.0	953.1	926.4	928.3	929.0	918.1	910.2	919.2
32.5°	1110.6	1110.2	1069.9	996.1	957.7	955.8	949.4	927.9	909.4	917.3
35°	1215.7	1211.6	1159.6	1056.4	993.1	981.4	966.3	938.8	913.2	915.5
37.5°	1389.8	1377.0	1305.0	1155.1	1045.8	1016.1	993.8	956.5	921.5	914.7
40°	1586.0	1569.8	1490.7	1290.3	1124.9	1077.1	1041.3	981.8	935.1	918.1
42.5°	1818.9	1795.9	1710.7	1449.7	1225.1	1155.8	1101.9	1013.8	955.0	929.0
45°	2104.8	2074.3	1953.7	1629.4	1351.3	1259.0	1187.1	1062.4	985.5	950.1
47.5°	2393.8	2401.3	2229.9	1835.1	1502.8	1386.4	1293.7	1135.5	1030.0	984.0
50°	2700.8	2706.1	2504.5	2063.0	1674.6	1530.3	1413.5	1217.2	1091.8	1032.2
52.5°	2940.4	2941.2	2753.9	2301.5	1853.5	1688.5	1542.7	1310.7	1163.4	1096.3
55°	3090.3	3088.5	2928.7	2527.1	2059.2	1854.7	1685.9	1416.9	1250.8	1171.6
57.5°	3199.2	3193.6	3049.3	2721.1	2278.5	2050.9	1847.9	1537.4	1354.0	1261.3
60°	3240.7	3237.3	3131.0	2888.8	2509.0	2267.9	2034.7	1672.3	1471.1	1367.2
62.5°	3256.5	3262.9	3211.3	3051.2	2755.8	2508.3	2240.1	1833.6	1603.0	1487.0
65°	3312.2	3323.9	3313.4	3263.6	3034.6	2789.7	2512.4	2025.3	1746.9	1615.4
67.5°	3422.6	3434.3	3438.8	3517.9	3375.2	3140.5	2852.2	2264.2	1915.3	1748.8
70°	3420.0	3416.6	3496.5	3720.2	3801.6	3626.1	3310.4	2558.0	2116.1	1859.6
72.5°	3112.9	3085.8	3274.6	3718.0	4156.5	4133.1	3869.8	2937.0	2289.4	1873.1
75°	2335.4	2263.0	2596.4	3350.7	4215.6	4421.0	4225.4	3172.1	2248.3	1655.0
77.5°	998.7	926.0	1318.9	2480.4	3773.0	4132.8	3899.2	2767.5	1794.8	1094.4
80°	261.5	261.1	398.6	1124.5	2565.9	3051.9	2677.4	1787.2	1025.5	391.0
82.5°	108.1	105.5	146.5	437.4	1253.8	1712.6	1397.7	797.2	370.3	105.9
85°	40.3	39.9	71.2	151.1	442.3	706.4	511.2	203.8	92.3	51.6
87.5°	11.3	10.9	15.4	52.4	107.7	163.5	87.4	33.5	26.0	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939162  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
812.2	0°	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2	812.2
813.7	2.5°	814.9	816.8	820.1	822.8	826.2	829.9	835.2	838.6	842.0	844.3
815.6	5°	818.3	822.4	831.1	839.7	849.9	859.3	870.3	878.2	884.6	886.5
822.4	7.5°	825.8	832.6	847.3	862.0	878.2	893.6	909.4	923.0	933.9	938.1
834.5	10°	839.0	848.0	868.7	889.5	910.9	934.7	955.0	974.6	990.1	996.5
848.8	12.5°	855.6	866.9	894.0	922.6	952.4	985.2	1011.5	1035.6	1054.9	1063.5
868.7	15°	877.0	891.7	926.4	964.8	1008.5	1054.1	1087.6	1114.4	1135.9	1146.4
889.5	17.5°	900.4	920.0	963.7	1021.7	1084.2	1144.1	1183.3	1202.9	1225.1	1235.3
908.7	20°	923.0	947.1	1009.6	1094.0	1177.3	1241.0	1272.6	1277.9	1279.4	1280.5
926.8	22.5°	946.4	978.8	1067.3	1185.2	1274.5	1318.6	1323.1	1300.5	1268.8	1254.1
944.5	25°	972.0	1014.9	1142.6	1285.8	1358.1	1363.4	1328.7	1273.7	1213.8	1186.3
958.8	27.5°	996.8	1056.7	1233.0	1381.9	1418.4	1372.1	1297.5	1219.5	1147.2	1118.1
969.0	30°	1021.7	1104.6	1332.9	1465.9	1445.9	1350.6	1248.1	1161.1	1088.4	1057.9
978.0	32.5°	1046.9	1160.3	1447.8	1526.5	1441.0	1305.0	1186.7	1095.5	1031.5	999.5
985.9	35°	1075.6	1228.9	1556.7	1559.7	1408.2	1237.9	1105.7	1017.2	961.4	935.8
995.3	37.5°	1112.9	1315.9	1652.7	1568.0	1351.0	1139.6	1005.1	924.5	878.5	866.9
1009.3	40°	1159.2	1420.7	1726.2	1554.8	1266.2	1020.2	895.1	830.7	804.7	807.3
1028.1	42.5°	1219.5	1537.8	1777.8	1520.9	1148.3	897.0	798.7	770.0	782.5	793.0
1056.4	45°	1297.8	1659.5	1809.8	1463.2	1014.9	792.6	741.8	748.6	758.0	759.1
1101.9	47.5°	1398.1	1782.7	1830.9	1376.2	878.9	719.2	705.6	707.1	705.2	697.3
1170.1	50°	1523.1	1902.5	1849.8	1260.9	763.3	673.2	655.1	649.9	623.9	598.3
1260.9	52.5°	1665.5	2012.5	1857.7	1117.8	673.2	634.8	605.4	572.3	523.7	515.7
1375.1	55°	1823.8	2114.2	1837.3	941.8	597.5	585.4	541.0	501.1	495.8	489.0
1525.4	57.5°	2012.9	2223.9	1795.9	745.6	519.9	527.8	484.5	489.0	479.6	469.0
1718.7	60°	2219.7	2337.3	1723.2	566.6	439.6	455.8	469.8	469.4	466.8	458.1
1922.5	62.5°	2405.8	2411.8	1580.0	434.0	369.2	400.1	438.1	437.8	435.5	430.6
2135.3	65°	2516.6	2400.5	1341.2	341.7	311.2	354.1	395.2	398.2	398.6	398.2
2295.4	67.5°	2497.0	2268.3	1013.4	272.0	263.3	307.4	352.6	356.8	359.8	360.5
2315.8	70°	2275.5	1977.9	660.8	217.0	220.8	266.4	312.3	316.5	319.1	322.1
2009.5	72.5°	1773.7	1454.2	378.2	175.6	183.5	230.9	272.4	277.3	278.8	284.4
1398.4	75°	1080.8	855.2	204.2	138.3	150.7	197.4	232.8	238.5	241.1	247.9
686.8	77.5°	513.9	370.3	116.4	107.7	121.3	161.2	196.7	203.1	195.9	199.7
189.5	80°	173.7	137.5	73.5	82.1	92.7	125.8	157.5	163.9	148.8	148.1
62.9	82.5°	60.7	55.8	46.7	54.6	59.9	90.0	119.0	127.3	110.8	110.4
28.3	85°	23.7	22.6	26.0	29.8	35.8	55.4	78.4	82.5	68.2	55.0
8.3	87.5°	4.9	5.3	6.4	6.8	10.9	19.2	28.3	34.7	27.5	23.4
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°  
812.2  
842.8  
887.2  
938.4  
996.8  
1063.5  
1145.6  
1234.9  
1283.5  
1258.3  
1190.5  
1121.5  
1061.3  
1003.6  
941.5  
875.2  
816.4  
802.8  
766.7  
703.4  
601.6  
518.4  
490.1  
467.1  
455.1  
428.7  
398.2  
361.3  
323.6  
286.7  
248.6  
196.7  
146.5  
105.1  
54.2  
21.5  
0.0

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