

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: P939135

Luminaire Tested: **GALN-SB1C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

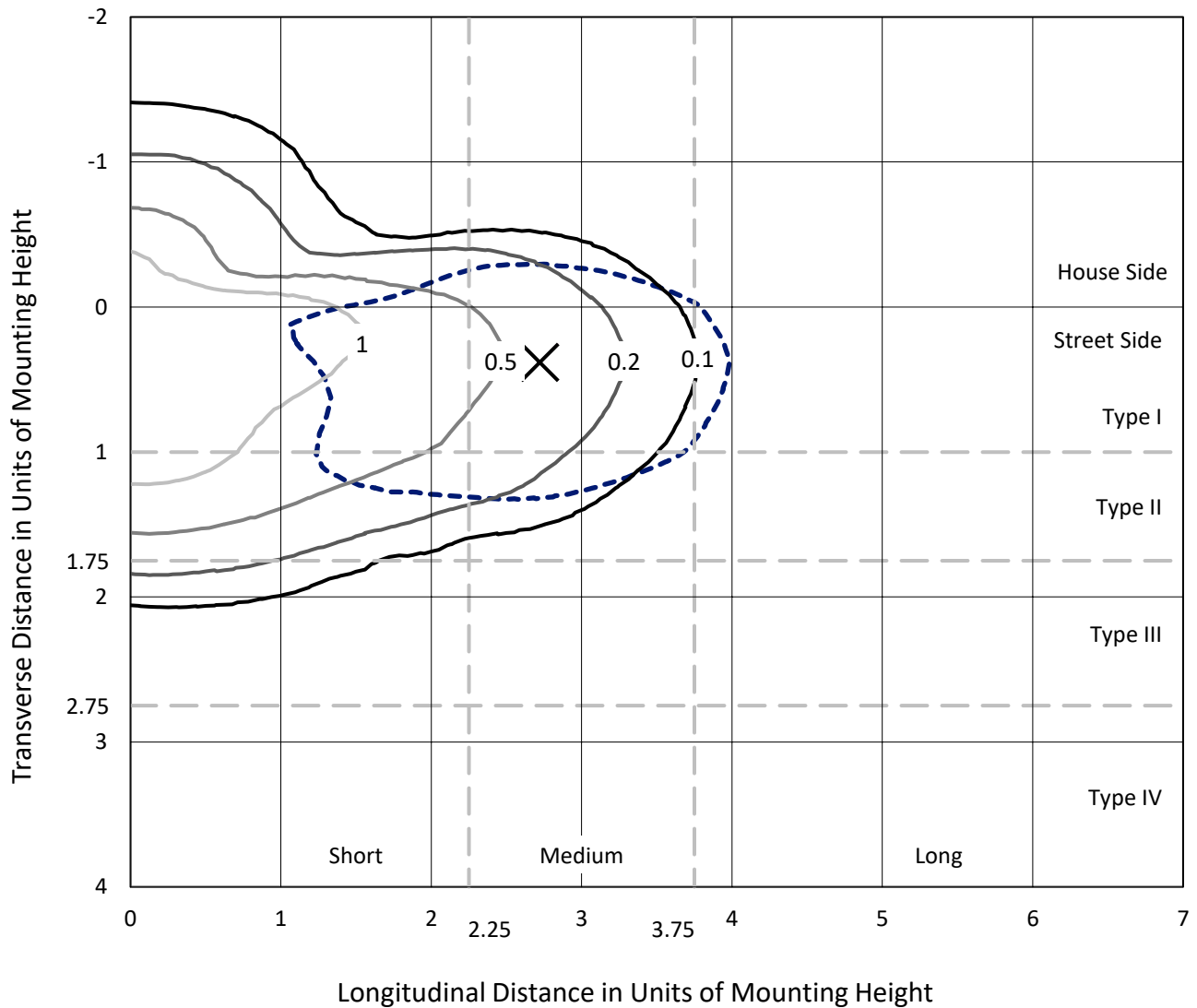
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939135
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Iso-Footcandle Lines of Horizontal Illumination

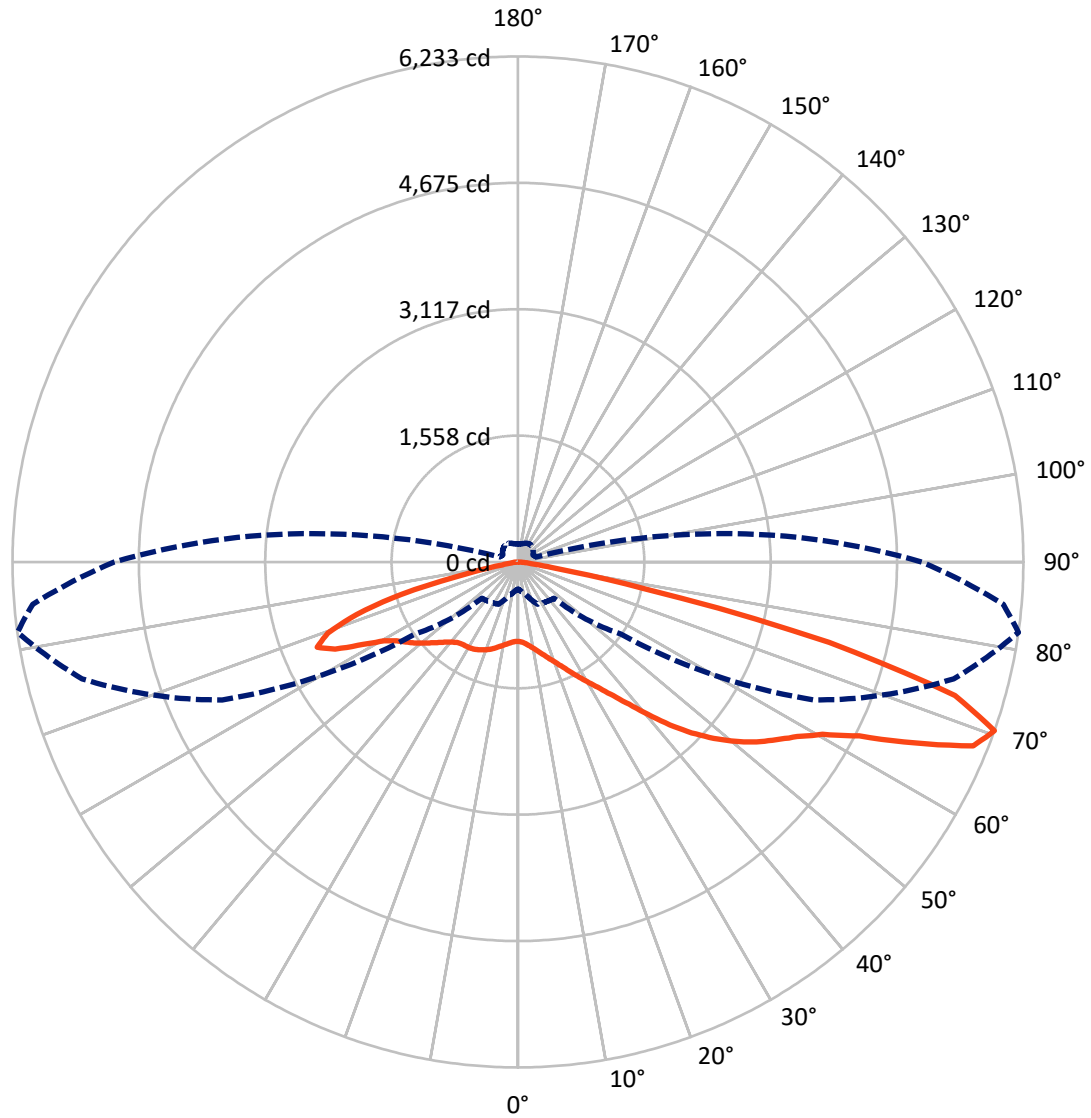
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.3	0.0	1644.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5025.7	0.0	5025.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	6670.0	0.0	6670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.4
10°-20°	265.3	4.0
20°-30°	443.8	6.7
30°-40°	693.3	10.4
40°-50°	1104.2	16.6
50°-60°	1536.6	23.0
60°-70°	1607.3	24.1
70°-80°	840.1	12.6
80°-90°	87.2	1.3
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°	6670.0	100.0
0°-180°	6670.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939135

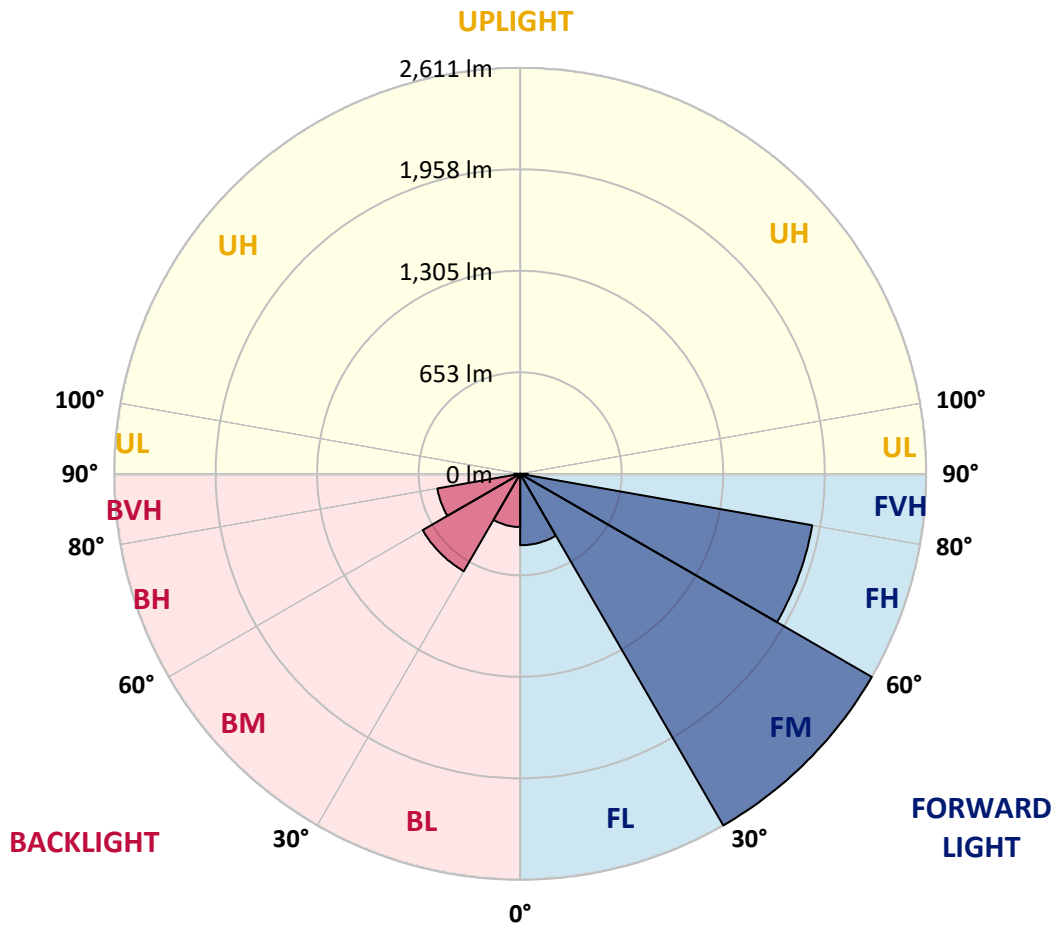
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.3	6.9			
FM (30°-60°)	2610.6	39.1			
FH (60°-80°)	1907.0	28.6			G2/5000
FVH (80°-90°)	48.8	0.7			G1/100
BL (0°-30°)	342.1	5.1	B1/500		
BM (30°-60°)	723.4	10.8	B1/1000		
BH (60°-80°)	540.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	38.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9
2.5°	1001.3	1006.9	1005.2	1003.4	1003.4	1000.9	1000.6	997.0	994.2	989.6
5°	1014.0	1020.0	1019.3	1020.7	1025.3	1026.4	1027.5	1025.3	1019.7	1014.0
7.5°	1002.7	1009.4	1011.5	1020.0	1034.2	1046.9	1056.5	1060.4	1055.1	1046.9
10°	964.5	971.9	979.3	999.5	1024.6	1054.7	1080.2	1095.4	1094.3	1086.6
12.5°	886.9	894.7	910.7	949.9	996.0	1049.0	1096.5	1128.3	1139.3	1133.6
15°	825.0	831.7	843.8	884.1	943.9	1024.6	1102.5	1164.4	1192.4	1189.2
17.5°	823.2	826.1	833.5	852.6	898.6	986.4	1096.1	1199.8	1253.3	1252.9
20°	854.4	855.4	859.7	863.6	889.8	957.4	1079.8	1229.2	1321.6	1321.6
22.5°	897.6	896.9	901.1	897.6	910.3	954.9	1069.6	1255.0	1397.7	1403.3
25°	962.3	958.8	957.7	949.6	952.1	977.9	1080.9	1284.4	1487.9	1499.6
27.5°	1048.7	1043.0	1039.1	1020.4	1014.0	1025.3	1115.6	1319.8	1588.4	1608.6
30°	1161.2	1151.0	1145.3	1112.8	1089.7	1091.5	1168.0	1366.9	1693.5	1726.1
32.5°	1314.8	1298.9	1283.7	1230.3	1188.1	1174.3	1235.6	1432.0	1807.5	1859.5
35°	1486.9	1474.1	1457.8	1375.4	1310.6	1278.7	1326.9	1523.0	1940.9	2023.4
37.5°	1652.5	1641.5	1649.3	1538.2	1454.6	1408.3	1446.5	1645.1	2105.5	2227.3
40°	1823.8	1815.3	1816.4	1710.2	1612.9	1560.8	1591.6	1798.3	2294.2	2469.7
42.5°	2010.0	2003.6	1982.4	1888.2	1778.8	1730.4	1758.7	1975.3	2496.6	2745.8
45°	2218.4	2214.5	2194.7	2086.8	1961.5	1907.0	1945.2	2170.6	2700.1	3005.6
47.5°	2398.6	2401.8	2399.3	2308.3	2178.4	2098.4	2144.1	2374.5	2889.5	3249.8
50°	2485.3	2501.9	2526.3	2498.0	2417.3	2335.9	2344.8	2571.3	3070.0	3478.8
52.5°	2440.0	2471.5	2538.0	2583.3	2614.5	2597.5	2573.8	2766.7	3239.9	3685.5
55°	2271.2	2315.4	2425.8	2535.2	2694.1	2817.6	2848.8	2983.3	3405.5	3867.4
57.5°	1963.6	2035.4	2134.5	2355.8	2623.3	2924.2	3169.4	3283.8	3581.1	4061.7
60°	1436.2	1532.5	1655.7	1984.8	2375.6	2867.2	3442.3	3745.3	3830.6	4313.3
62.5°	919.2	978.6	1091.9	1401.9	1851.0	2575.2	3525.8	4322.2	4253.5	4726.0
65°	629.3	667.5	771.2	945.3	1196.6	1916.9	3302.2	4754.7	4925.3	5380.1
67.5°	457.3	486.3	574.8	727.3	779.7	1134.3	2562.4	4734.9	5578.3	6054.0
70°	333.4	353.9	428.3	574.8	599.9	631.1	1552.3	4024.9	5564.1	6233.0
72.5°	247.0	261.2	311.1	446.0	485.6	426.1	768.4	2925.2	4781.2	5637.7
75°	178.7	189.4	226.2	341.2	388.6	324.6	383.3	1709.5	3335.1	3965.8
77.5°	136.6	144.8	168.8	249.9	311.1	243.5	237.8	786.4	1581.4	1589.1
80°	109.7	115.0	128.1	175.9	238.5	182.3	155.0	317.5	499.7	422.9
82.5°	80.7	89.5	108.3	123.5	170.6	125.6	94.5	160.3	190.1	163.5
85°	46.0	52.0	65.5	88.5	109.0	76.8	54.2	71.1	88.5	72.6
87.5°	16.3	21.2	23.0	34.7	47.4	31.9	20.9	20.5	29.0	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939135
 CATALOG NUMBER: GALN-SB1C-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
977.9	0°	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9	977.9
988.5	2.5°	985.0	983.2	976.1	966.6	956.7	947.1	943.9	937.2	932.6	930.1
1011.5	5°	1004.8	999.1	982.5	961.3	939.0	914.9	897.9	882.3	871.0	860.4
1043.0	7.5°	1033.1	1023.2	994.5	957.4	917.7	877.7	848.0	825.4	810.1	800.2
1079.8	10°	1066.0	1050.8	1006.9	951.4	890.1	832.8	797.8	778.3	768.7	763.4
1122.0	12.5°	1103.9	1082.3	1019.7	937.6	848.0	782.5	758.5	752.8	753.2	753.5
1175.0	15°	1150.6	1120.5	1029.9	907.5	793.2	744.0	739.7	748.9	758.5	763.1
1235.2	17.5°	1203.4	1160.9	1031.7	857.9	739.4	719.2	732.6	752.5	767.0	773.3
1302.5	20°	1260.0	1201.9	1019.0	787.8	695.1	699.0	723.1	748.6	764.5	772.6
1379.3	22.5°	1324.8	1245.8	988.5	714.2	659.0	677.1	705.4	730.2	746.8	754.9
1469.5	25°	1398.7	1295.0	940.7	652.3	627.9	652.3	680.6	701.1	714.6	722.0
1570.4	27.5°	1480.8	1346.3	877.0	603.1	600.6	626.8	650.2	666.1	673.2	678.8
1677.6	30°	1563.3	1393.1	799.9	565.9	576.9	601.7	618.3	625.4	627.5	628.6
1797.3	32.5°	1652.5	1433.4	718.8	535.1	554.3	577.3	587.2	590.4	580.4	573.7
1942.4	35°	1760.4	1476.6	639.5	510.7	532.0	551.8	555.0	552.1	540.4	526.6
2124.3	37.5°	1893.9	1530.4	576.2	493.4	511.1	524.2	520.3	519.6	520.6	504.3
2343.0	40°	2057.4	1600.5	529.8	479.9	494.1	496.9	485.9	492.0	497.3	472.5
2583.0	42.5°	2239.0	1685.1	500.5	470.7	479.9	473.2	456.2	462.9	462.2	429.7
2824.0	45°	2424.1	1777.1	490.2	464.0	466.8	453.4	434.6	436.4	421.5	392.2
3055.1	47.5°	2608.1	1875.8	496.6	458.3	450.6	435.3	420.8	413.0	391.1	369.1
3276.7	50°	2788.6	1979.5	519.9	447.0	428.3	419.4	408.8	395.0	371.6	352.9
3486.2	52.5°	2956.0	2083.9	546.1	428.3	400.3	405.6	398.9	383.0	359.9	340.8
3684.4	55°	3114.6	2188.3	556.4	402.4	374.1	393.6	389.7	360.3	332.7	317.1
3891.8	57.5°	3287.3	2314.0	545.1	369.5	352.9	379.8	364.9	332.3	316.4	304.7
4161.8	60°	3526.5	2511.1	520.6	328.8	332.7	359.2	333.8	320.3	303.0	289.9
4566.7	62.5°	3924.0	2878.9	481.3	288.5	309.0	328.8	318.9	305.4	287.7	275.0
5259.0	65°	4511.5	3389.9	407.4	257.0	282.4	299.1	303.0	289.5	271.1	257.7
5865.7	67.5°	5007.0	3710.6	308.3	230.8	255.2	275.0	286.0	272.9	253.4	240.3
6007.6	70°	4979.8	3477.7	235.4	204.9	231.1	251.3	265.4	255.2	234.3	221.9
5456.9	72.5°	4423.0	2909.3	190.4	178.7	206.7	226.5	243.5	235.7	214.5	202.4
3997.6	75°	3249.4	2065.2	152.2	152.2	176.3	200.7	219.4	214.5	195.0	186.5
1678.3	77.5°	1369.7	866.4	119.3	126.4	146.5	172.4	195.7	197.5	180.5	191.1
443.8	80°	364.2	238.9	91.0	99.5	115.0	142.3	170.2	169.5	151.1	141.2
164.9	82.5°	138.7	94.1	64.8	70.1	83.2	109.0	134.8	139.1	120.7	104.4
64.8	85°	53.4	40.3	40.0	42.1	48.5	72.2	101.9	105.5	91.0	77.2
18.1	87.5°	13.8	12.0	14.9	14.2	22.3	38.6	58.4	60.5	55.6	32.2
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>
977.9
933.0
864.6
802.4
764.8
754.2
762.7
774.8
774.8
757.1
724.1
681.0
631.1
575.8
527.4
505.4
473.2
429.3
393.2
369.1
351.5
341.2
315.7
303.7
289.2
275.0
258.4
240.7
223.0
202.4
184.0
173.4
131.3
104.4
79.6
46.0
0.0

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