

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: P939717

Luminaire Tested: **GALN-SB2B-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8166 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

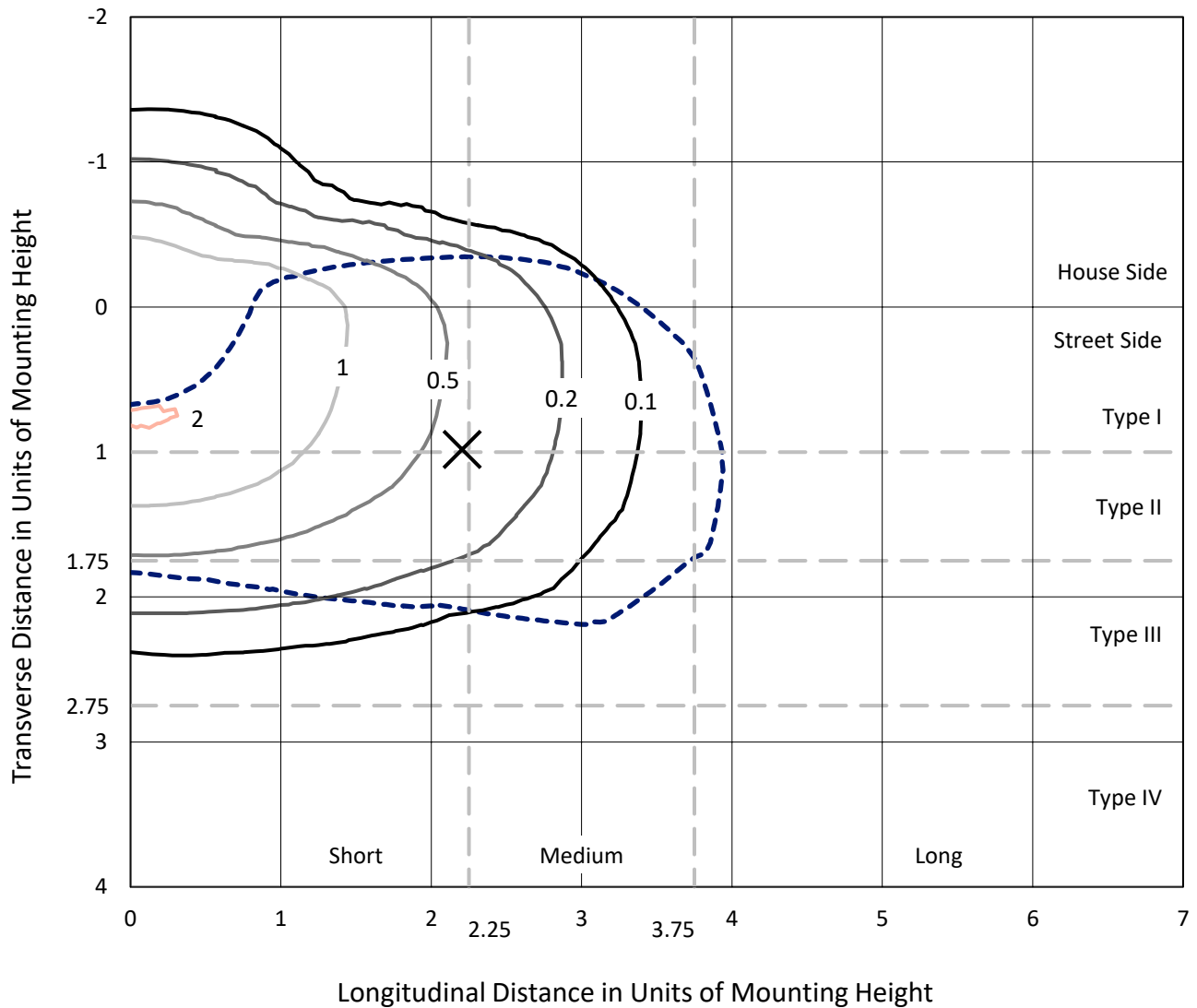
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

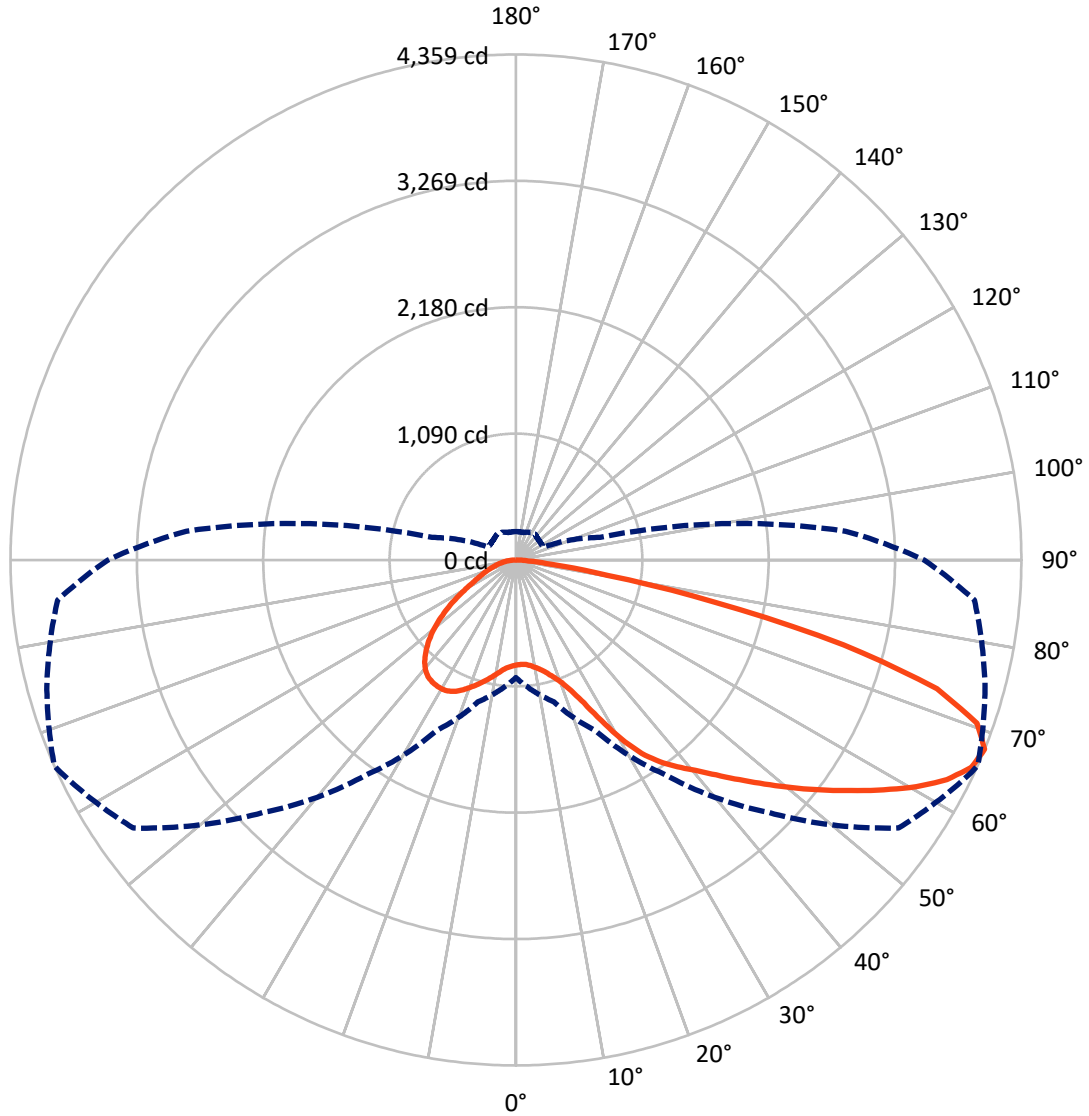
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2030.4	0.0	2030.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6135.6	0.0	6135.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	8166.0	0.0	8166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.1
10°-20°	296.7	3.6
20°-30°	571.8	7.0
30°-40°	1002.6	12.3
40°-50°	1490.6	18.3
50°-60°	1889.5	23.1
60°-70°	1848.8	22.6
70°-80°	881.9	10.8
80°-90°	94.2	1.2
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°	8166.0	100.0
0°-180°	8166.0	100.0

Coefficient of Utilization



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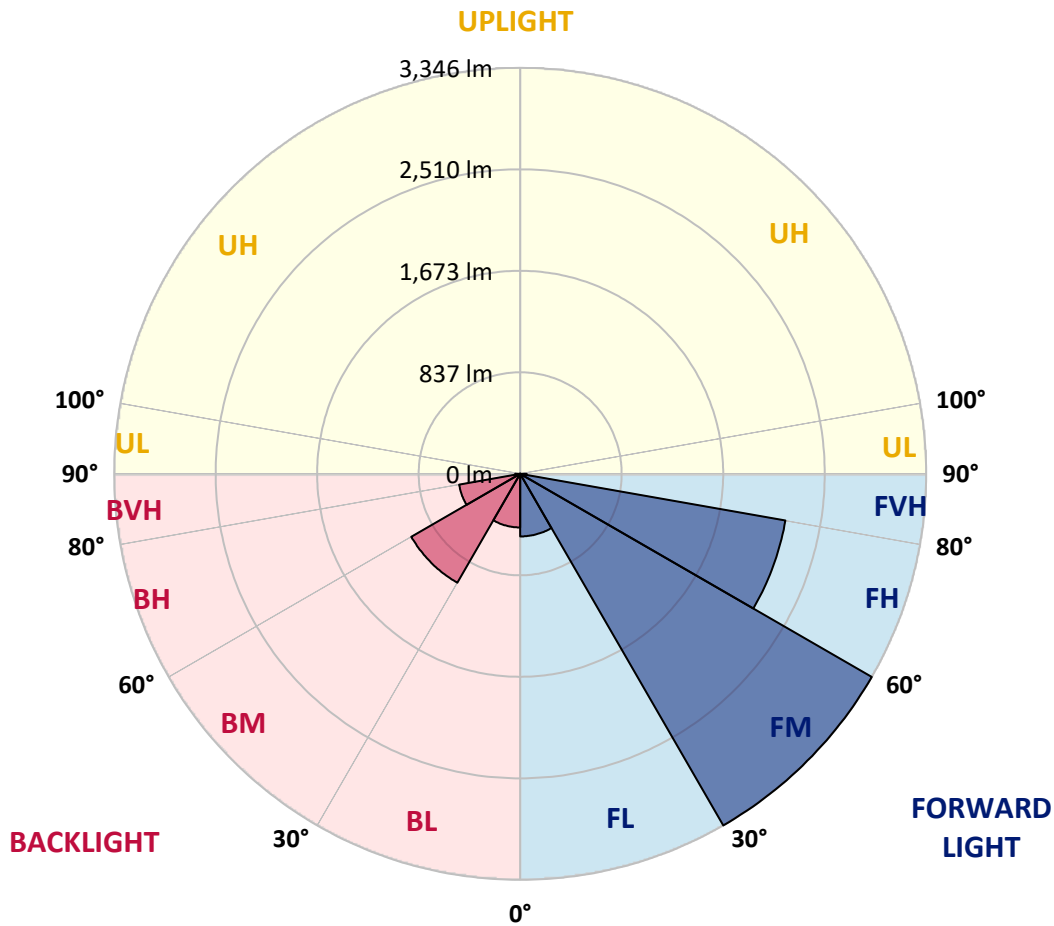
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.0	6.3			
FM (30°-60°)	3346.4	41.0			
FH (60°-80°)	2219.8	27.2			G2/5000
FVH (80°-90°)	53.4	0.7			G1/100
BL (0°-30°)	442.3	5.4	B1/500		
BM (30°-60°)	1036.4	12.7	B2/2500		
BH (60°-80°)	511.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	40.8	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7
2.5°	896.3	901.4	900.1	898.0	897.6	898.4	899.7	901.0	900.6	902.7
5°	893.7	898.9	898.4	898.4	900.1	903.6	905.7	907.9	905.7	908.3
7.5°	895.4	899.3	901.0	902.7	907.0	913.4	918.6	923.3	920.7	923.7
10°	917.3	920.3	922.0	922.0	925.0	932.3	937.5	946.0	943.9	948.6
12.5°	957.2	960.2	960.2	958.5	960.6	965.4	967.1	976.5	972.6	980.4
15°	1006.1	1012.1	1007.4	1004.4	1005.3	1010.0	1009.5	1016.8	1013.0	1019.4
17.5°	1060.2	1067.9	1060.2	1059.7	1058.0	1063.2	1063.6	1070.0	1063.2	1067.9
20°	1124.1	1134.8	1128.4	1130.5	1126.7	1128.8	1131.0	1140.4	1129.7	1133.1
22.5°	1214.2	1227.1	1220.2	1228.4	1225.8	1224.1	1223.6	1240.4	1223.6	1224.9
25°	1345.5	1360.9	1348.9	1360.1	1360.1	1365.7	1372.1	1393.5	1365.7	1357.5
27.5°	1539.4	1554.9	1531.3	1538.1	1536.0	1549.7	1542.9	1596.1	1566.0	1552.7
30°	1772.8	1800.3	1755.7	1753.9	1751.8	1773.7	1783.5	1818.7	1788.3	1775.0
32.5°	2025.1	2053.8	2000.6	1985.2	1977.0	1990.3	1982.2	2010.5	1989.5	1968.9
35°	2292.0	2320.3	2269.7	2239.6	2207.0	2179.1	2150.0	2157.2	2137.5	2106.2
37.5°	2544.2	2596.2	2542.5	2510.4	2450.3	2395.8	2314.3	2280.4	2261.9	2233.2
40°	2801.2	2830.8	2790.1	2762.6	2697.4	2612.0	2481.6	2410.0	2385.1	2357.2
42.5°	2990.5	3018.8	2996.9	2978.0	2927.0	2827.8	2659.2	2569.6	2533.5	2502.2
45°	3140.6	3161.6	3147.9	3154.8	3132.9	3036.8	2843.3	2740.7	2703.4	2665.2
47.5°	3201.1	3223.4	3245.3	3286.1	3323.4	3252.6	3041.1	2926.1	2886.6	2847.6
50°	3194.3	3217.0	3280.5	3367.2	3483.0	3459.4	3249.6	3123.5	3087.0	3042.4
52.5°	3139.3	3165.1	3246.6	3390.8	3575.2	3614.3	3462.0	3327.3	3292.9	3239.7
55°	2995.2	3010.6	3132.9	3337.1	3597.1	3722.4	3670.1	3544.4	3510.0	3435.8
57.5°	2727.9	2750.2	2928.2	3192.5	3542.2	3795.8	3852.8	3772.6	3739.6	3632.7
60°	2379.1	2414.7	2618.5	2949.7	3402.3	3795.3	4018.9	3997.0	3969.5	3826.7
62.5°	1984.3	2025.5	2221.6	2606.5	3157.8	3687.7	4122.7	4184.9	4170.8	4005.6
65°	1524.0	1552.3	1747.5	2162.4	2777.2	3456.4	4134.7	4313.2	4315.8	4141.6
67.5°	1014.7	1096.2	1265.7	1622.7	2267.5	3078.4	4029.2	4334.2	4359.1	4188.4
70°	495.1	602.4	768.4	1054.6	1622.7	2498.8	3753.3	4161.8	4217.1	4051.9
72.5°	205.5	240.3	330.8	520.4	931.5	1686.2	3199.0	3694.1	3796.6	3590.3
75°	138.6	150.2	189.2	266.9	424.3	831.5	2307.0	2754.5	2919.7	2711.6
77.5°	106.8	114.1	137.7	186.6	252.3	314.5	1234.8	1660.0	1745.4	1615.8
80°	84.1	89.7	103.0	136.0	178.9	168.2	420.9	752.1	801.5	672.3
82.5°	72.9	75.1	73.8	92.2	118.8	98.3	138.2	277.6	306.3	222.2
85°	52.8	58.8	61.4	57.1	63.1	49.8	56.6	98.3	108.1	96.5
87.5°	21.5	31.7	39.0	36.9	23.2	14.2	17.6	28.7	33.0	36.0
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°
905.7	0°	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7	905.7
906.1	2.5°	906.6	909.6	911.7	914.3	916.0	918.6	923.7	926.7	927.2	929.3
913.0	5°	914.7	919.0	923.7	930.6	938.3	944.8	954.6	961.5	964.1	966.2
929.7	7.5°	932.3	938.3	946.9	958.9	970.1	978.7	990.7	998.8	1007.0	1010.0
956.3	10°	958.5	967.1	979.5	995.8	1007.8	1019.0	1031.4	1038.3	1046.4	1049.9
988.1	12.5°	991.1	1000.1	1016.4	1039.2	1050.3	1058.0	1062.3	1060.6	1062.3	1065.3
1026.3	15°	1028.4	1038.3	1056.7	1081.2	1088.9	1082.1	1072.6	1064.0	1062.7	1063.6
1072.6	17.5°	1072.6	1079.9	1101.4	1122.0	1116.4	1088.1	1067.5	1053.7	1046.9	1044.7
1131.8	20°	1134.4	1134.4	1152.0	1164.9	1127.5	1079.5	1047.3	1025.0	1010.8	1004.8
1212.5	22.5°	1209.5	1202.6	1213.8	1204.8	1125.4	1055.5	1010.8	972.2	950.8	942.2
1325.3	25°	1304.7	1296.6	1293.6	1237.8	1109.9	1017.3	944.8	898.0	879.1	874.4
1487.9	27.5°	1448.5	1427.9	1388.8	1255.8	1081.6	957.2	867.5	824.2	813.5	813.9
1696.9	30°	1639.8	1598.6	1503.0	1258.8	1035.3	872.3	788.6	757.7	752.5	754.7
1872.4	32.5°	1817.0	1778.0	1619.7	1245.1	964.1	789.0	717.8	697.2	689.5	692.1
2006.2	35°	1956.0	1945.3	1727.8	1225.8	876.5	710.9	654.3	636.7	621.7	618.3
2132.4	37.5°	2087.3	2083.0	1808.9	1198.8	789.9	655.6	603.2	580.1	558.2	546.2
2271.8	40°	2231.5	2227.2	1862.1	1157.1	713.1	607.5	557.3	526.9	499.8	478.0
2429.7	42.5°	2393.7	2368.3	1887.4	1097.5	647.9	566.8	520.0	478.8	443.2	423.0
2608.2	45°	2570.8	2513.8	1886.9	1021.6	592.9	529.4	480.1	421.8	388.7	369.8
2791.4	47.5°	2758.8	2652.8	1863.8	937.5	539.7	488.3	418.3	373.7	351.8	340.2
2990.5	50°	2952.7	2782.8	1824.3	840.9	485.3	441.5	379.7	349.2	332.5	321.8
3187.8	52.5°	3135.0	2900.8	1776.7	731.5	429.9	396.0	362.5	338.9	321.4	309.3
3379.2	55°	3304.5	3002.5	1709.3	619.5	384.9	365.5	354.4	334.7	314.5	300.3
3573.5	57.5°	3455.1	3068.5	1593.0	514.4	352.7	344.5	345.8	327.4	304.2	292.2
3764.9	60°	3580.4	3117.0	1421.0	417.0	326.5	323.9	332.5	313.6	286.6	272.9
3926.6	62.5°	3655.5	3116.2	1209.9	341.5	304.2	305.1	314.9	296.5	269.0	256.1
4011.2	65°	3649.0	3039.8	978.2	292.2	282.7	283.6	296.5	277.6	254.4	246.7
3968.7	67.5°	3519.9	2853.6	750.4	260.0	259.1	263.0	278.0	264.7	245.4	244.6
3715.5	70°	3170.2	2467.0	540.6	234.3	234.7	240.3	260.0	256.6	240.7	242.4
3123.9	72.5°	2542.1	1880.9	363.0	207.2	207.7	216.7	242.8	250.1	236.0	258.7
2216.5	75°	1693.0	1173.0	233.4	178.5	178.9	190.5	227.8	237.7	223.1	257.9
1153.3	77.5°	813.5	527.3	169.0	150.2	150.2	160.9	196.9	212.8	190.1	200.4
370.7	80°	281.0	198.2	133.0	121.0	118.4	125.7	166.0	184.5	163.9	151.0
121.0	82.5°	110.7	103.0	106.8	94.0	85.4	90.1	129.1	152.3	120.6	109.0
68.2	85°	63.5	66.9	75.5	62.2	49.3	55.3	94.8	109.4	91.0	80.2
22.3	87.5°	17.2	23.6	34.8	32.2	22.3	23.6	45.0	60.5	52.3	40.3
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°
905.7
928.9
965.8
1010.4
1051.6
1066.2
1066.6
1047.7
1003.5
940.9
875.3
815.2
762.0
695.5
620.8
546.6
480.1
424.3
369.0
337.7
317.9
304.2
294.8
284.5
266.9
252.3
246.3
245.8
242.0
262.1
260.0
183.6
141.6
108.5
81.9
41.6
0.0

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