

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: P945404

Luminaire Tested: **GALN-SB1B-840-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

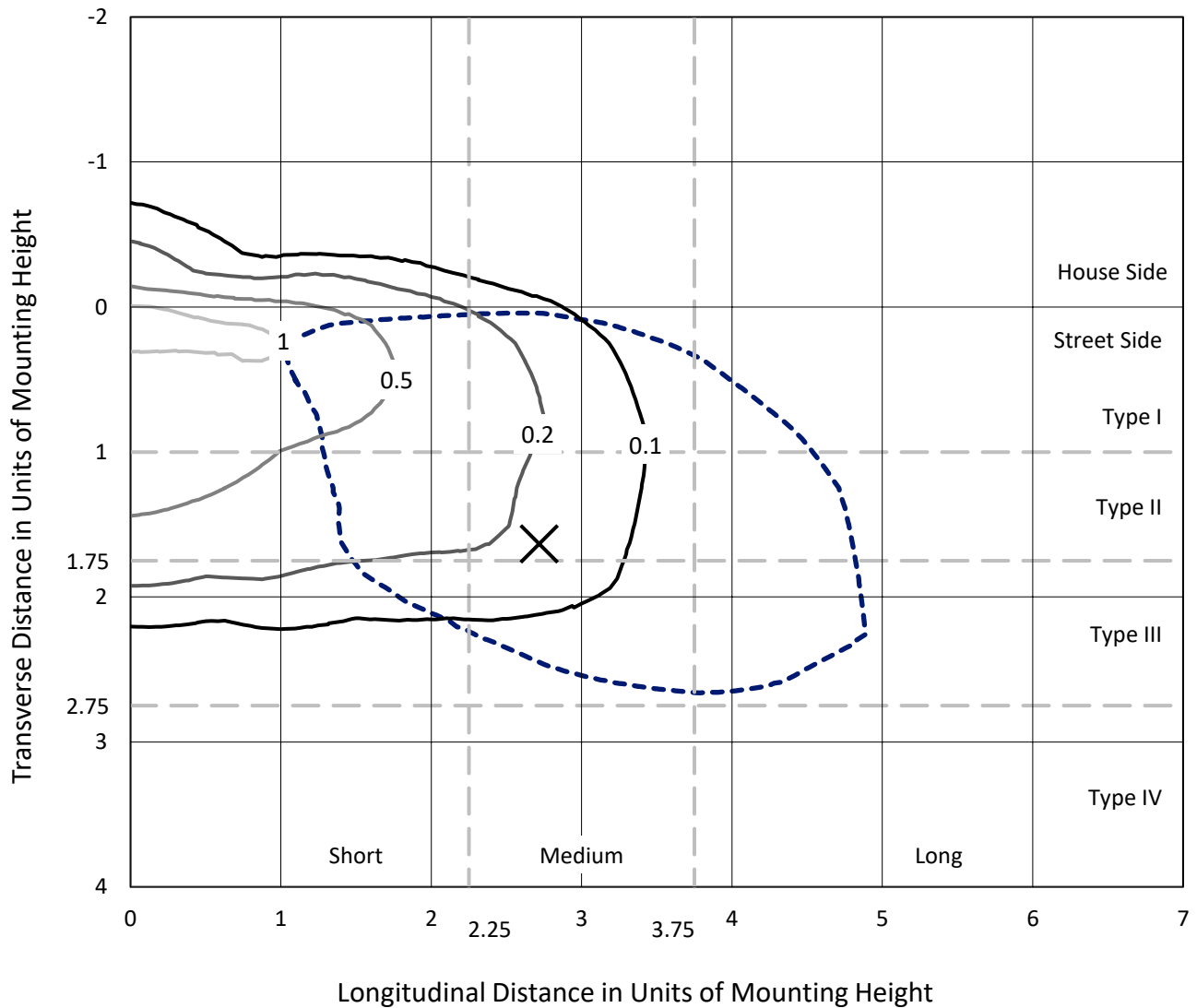
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

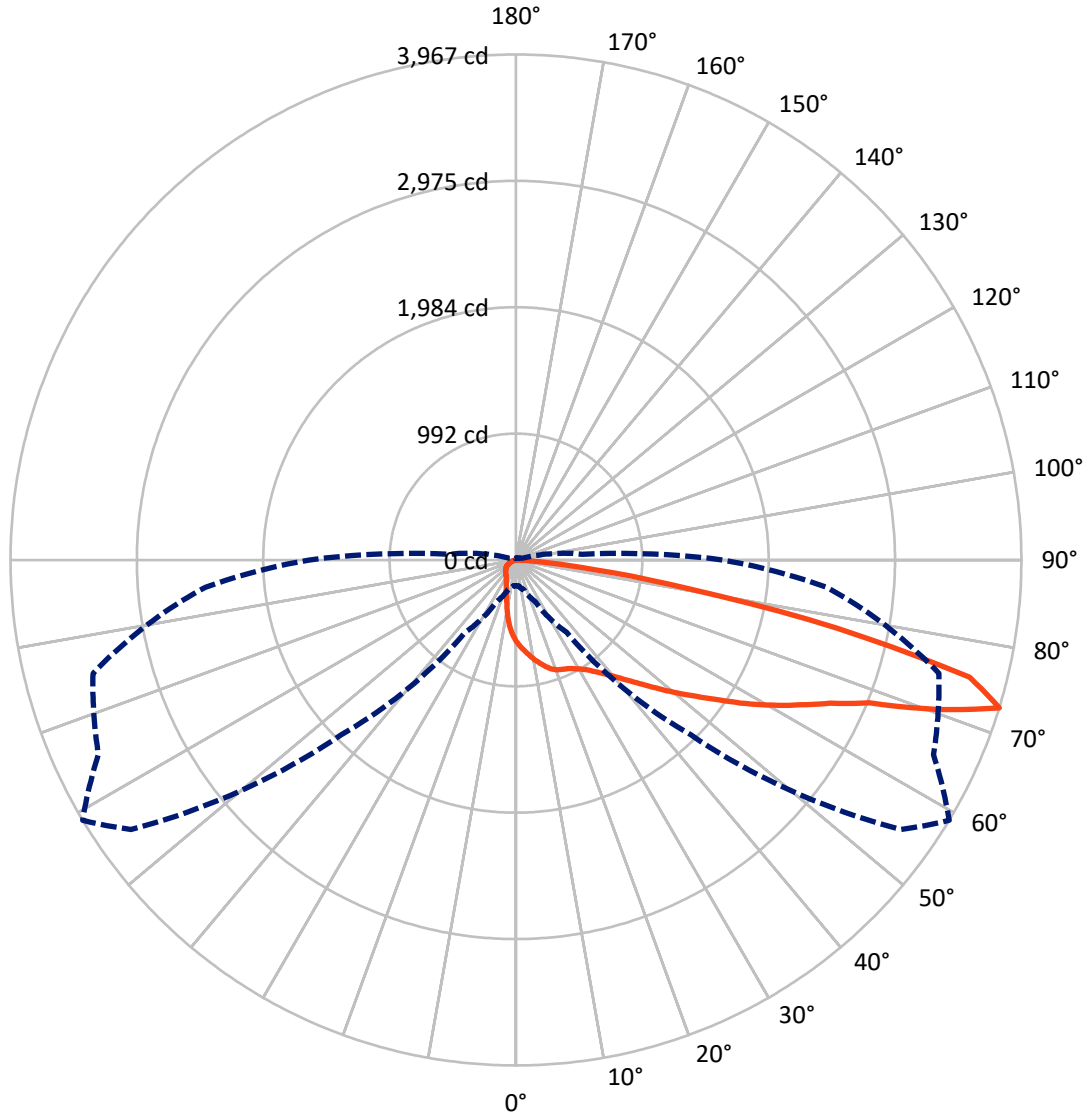
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	458.3	0.0	458.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3880.7	0.0	3880.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	4339.0	0.0	4339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.3
10°-20°	154.2	3.6
20°-30°	244.4	5.6
30°-40°	392.2	9.0
40°-50°	626.4	14.4
50°-60°	906.9	20.9
60°-70°	1076.3	24.8
70°-80°	799.0	18.4
80°-90°	81.7	1.9
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°	4339.0	100.0
0°-180°	4339.0	100.0

Coefficient of Utilization



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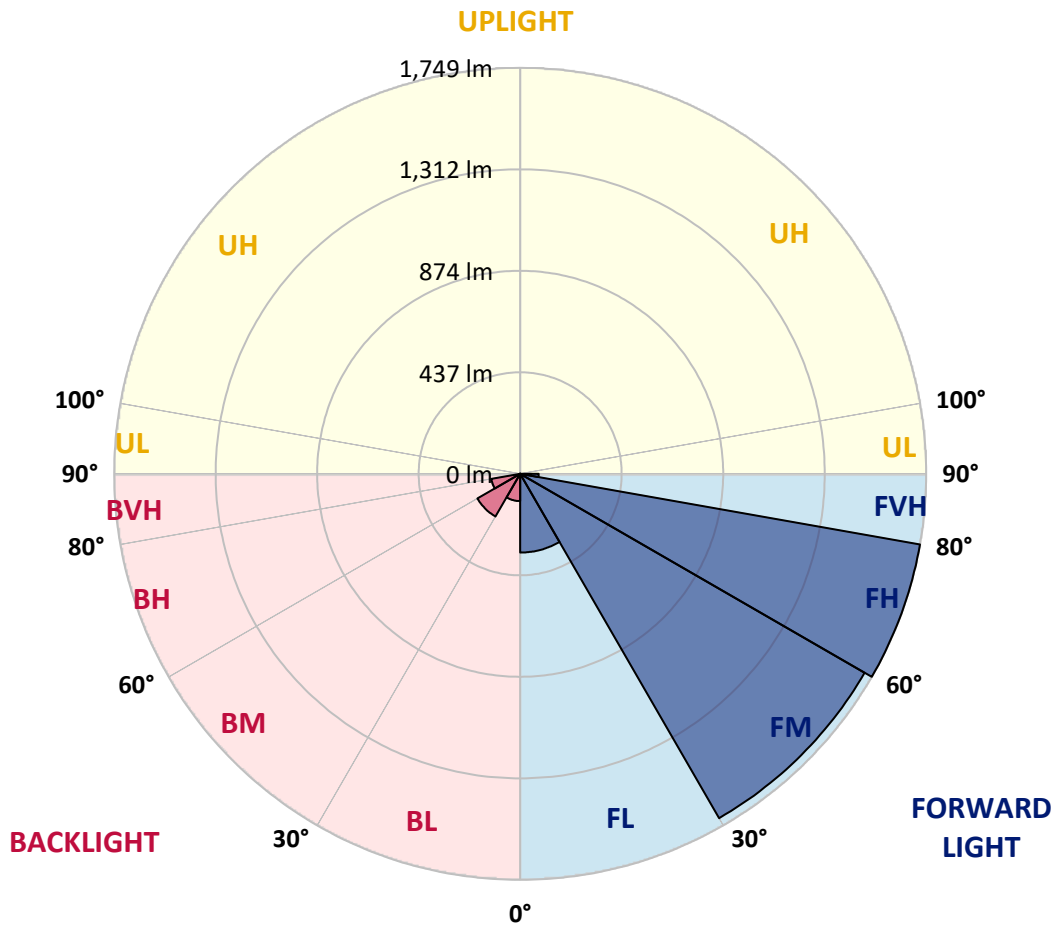
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.2	7.8			
FM (30°-60°)	1713.0	39.5			
FH (60°-80°)	1748.9	40.3			G1/1800
FVH (80°-90°)	79.7	1.8			G1/100
BL (0°-30°)	117.4	2.7	B1/500		
BM (30°-60°)	212.5	4.9	B0/220		
BH (60°-80°)	126.4	2.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
2.5°	711.9	707.9	708.5	701.7	696.9	691.8	681.9	680.4	673.4	660.9
5°	773.9	771.4	769.1	761.5	751.5	739.1	722.4	716.4	703.4	681.9
7.5°	819.3	816.1	817.3	809.6	801.7	787.8	764.9	753.8	736.5	703.7
10°	828.0	826.3	833.7	836.5	836.5	827.8	805.4	794.3	769.1	727.2
12.5°	778.7	779.0	797.4	819.5	848.4	856.6	841.6	829.7	804.8	752.1
15°	721.2	721.5	739.4	767.7	815.0	862.3	874.2	866.6	840.8	779.0
17.5°	686.7	685.3	697.2	720.4	770.0	836.5	894.0	899.1	878.2	808.8
20°	681.9	679.3	685.5	697.2	732.6	804.2	896.3	920.4	916.7	842.5
22.5°	711.3	707.4	704.0	704.5	719.5	777.3	890.6	932.3	956.4	883.0
25°	769.7	763.4	752.4	738.2	735.1	771.7	886.7	945.3	993.2	934.8
27.5°	841.1	832.3	811.0	789.8	771.7	787.5	894.9	966.0	1034.8	995.2
30°	919.5	908.8	887.5	847.3	818.4	822.9	914.4	993.2	1088.1	1063.4
32.5°	1034.8	1009.9	972.8	911.3	873.1	861.2	943.9	1027.7	1154.1	1154.4
35°	1133.7	1119.8	1082.4	1005.9	927.5	911.9	982.7	1076.5	1245.6	1274.8
37.5°	1198.6	1179.6	1146.7	1089.2	1011.9	964.0	1034.5	1136.2	1342.5	1411.9
40°	1271.1	1252.4	1208.8	1154.7	1109.9	1053.5	1100.0	1205.1	1448.7	1552.7
42.5°	1358.6	1334.3	1282.7	1224.3	1177.6	1171.4	1185.5	1290.9	1557.8	1705.6
45°	1461.5	1438.5	1379.3	1305.6	1264.6	1253.5	1293.2	1390.9	1679.3	1873.3
47.5°	1557.8	1531.1	1467.4	1400.3	1354.7	1319.8	1407.6	1509.0	1817.0	2048.7
50°	1639.6	1612.4	1554.1	1482.4	1451.5	1405.9	1520.1	1640.8	1953.5	2226.9
52.5°	1695.7	1671.6	1603.1	1554.4	1533.4	1510.5	1651.8	1780.4	2089.5	2390.1
55°	1683.0	1661.5	1601.1	1597.7	1596.3	1620.4	1809.3	1938.8	2228.0	2544.4
57.5°	1642.5	1618.1	1542.8	1594.6	1644.7	1718.4	1979.9	2126.0	2379.9	2690.1
60°	1523.2	1514.7	1468.8	1588.6	1665.1	1814.4	2174.8	2314.1	2544.2	2818.1
62.5°	1270.8	1278.2	1277.9	1601.1	1702.0	1923.8	2351.8	2504.5	2704.8	2941.3
65°	951.5	977.0	1009.6	1488.9	1751.3	2119.0	2563.4	2711.0	2868.0	3084.7
67.5°	639.4	659.8	681.9	1221.5	1604.5	2324.0	2915.0	2994.0	3063.4	3243.6
70°	366.0	372.5	403.4	762.9	1236.8	2267.4	3487.5	3516.1	3354.9	3439.3
72.5°	205.1	202.8	243.6	362.0	691.2	1941.6	3688.1	3967.1	3615.8	3436.2
75°	137.1	137.4	167.7	228.3	269.4	1359.2	3178.1	3678.4	3459.4	3047.0
77.5°	93.5	96.6	123.2	176.5	124.6	663.2	2102.5	2576.7	2800.8	2352.9
80°	40.5	40.8	81.3	126.6	84.1	211.0	1090.1	1380.4	1756.6	1321.2
82.5°	21.0	23.8	51.8	81.9	53.0	73.9	515.0	603.1	737.1	387.8
85°	7.4	8.8	32.0	40.2	26.6	26.3	179.3	182.7	156.1	58.4
87.5°	0.0	1.4	12.5	9.9	3.4	3.1	21.2	17.8	14.2	8.2
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°
641.6	0°	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
648.2	2.5°	642.2	634.6	622.1	606.8	588.9	579.3	565.4	556.9	549.3	549.6
656.9	5°	643.1	630.3	598.6	564.9	527.5	500.0	469.4	447.9	431.4	427.5
666.0	7.5°	645.6	624.1	572.2	516.1	453.8	407.6	365.4	338.8	323.8	319.8
675.3	10°	649.0	617.3	542.5	456.7	379.3	323.8	288.7	271.7	264.9	259.8
687.2	12.5°	651.8	610.2	505.1	395.2	313.0	269.7	243.1	228.9	222.9	219.3
701.1	15°	656.6	600.8	464.6	338.0	268.3	232.9	207.6	197.2	195.5	196.0
716.4	17.5°	661.5	591.8	419.3	293.2	235.4	200.6	185.3	183.6	185.8	188.1
734.0	20°	666.8	578.7	373.4	259.5	205.1	178.2	174.2	175.4	176.5	180.5
758.1	22.5°	674.8	562.3	333.1	230.9	179.9	167.4	165.4	166.3	167.1	171.1
789.8	25°	686.1	544.8	300.6	204.5	164.0	158.6	156.7	156.7	157.8	161.5
826.6	27.5°	698.0	519.8	274.2	180.2	154.7	149.0	145.6	145.6	147.0	151.3
872.8	30°	711.3	497.2	253.5	162.0	146.7	139.4	134.8	133.7	135.4	140.8
939.6	32.5°	735.4	482.4	238.8	153.5	139.7	130.6	124.4	121.2	122.9	129.2
1033.1	35°	771.9	479.0	228.6	149.3	132.9	122.7	113.9	109.1	110.5	117.0
1148.4	37.5°	814.7	486.1	218.7	143.6	126.3	115.0	103.4	97.2	99.4	105.4
1280.2	40°	876.2	515.6	211.0	139.4	119.8	105.9	92.9	86.7	90.4	95.5
1417.3	42.5°	950.4	568.0	209.1	135.4	111.9	96.3	83.3	78.8	81.6	86.4
1555.8	45°	1042.5	634.8	218.1	130.3	103.1	87.0	75.6	73.1	73.9	78.8
1686.7	47.5°	1141.3	703.4	243.1	125.8	95.5	79.3	69.7	67.4	66.9	71.4
1806.2	50°	1241.3	764.3	272.5	122.4	90.1	73.1	65.2	62.3	60.9	63.7
1924.3	52.5°	1340.2	812.7	291.8	116.7	84.7	66.9	61.2	56.9	54.4	55.8
2041.9	55°	1440.5	855.2	292.9	108.2	79.6	62.9	57.2	52.4	49.3	49.3
2155.2	57.5°	1534.3	892.6	276.2	96.9	72.5	59.2	51.8	47.9	44.5	43.3
2255.8	60°	1617.3	920.4	248.4	84.1	66.3	54.4	46.5	43.3	39.1	36.8
2345.3	62.5°	1691.2	934.0	210.5	71.1	58.6	48.7	41.4	38.0	32.3	29.5
2436.2	65°	1753.8	920.1	170.8	58.9	52.1	42.5	35.4	32.0	25.8	22.4
2538.5	67.5°	1815.8	856.6	129.2	49.6	45.3	35.7	29.2	26.1	21.5	18.7
2613.0	70°	1823.8	723.2	90.4	41.6	37.7	27.5	23.5	21.5	17.6	15.0
2446.7	72.5°	1623.5	520.4	55.0	34.0	29.5	19.5	18.7	17.0	13.0	11.3
1999.1	75°	1297.7	319.0	32.3	25.5	19.5	13.9	13.9	12.2	8.8	7.4
1380.2	77.5°	896.9	166.9	19.0	16.4	11.6	8.2	9.1	7.4	4.2	3.4
546.7	80°	359.2	63.5	10.2	7.6	5.4	3.7	3.1	1.7	0.8	0.6
112.2	82.5°	71.7	16.7	3.4	2.0	2.0	0.8	0.0	0.0	0.0	0.0
30.9	85°	18.4	3.7	0.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	5.7	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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<u>180°</u>
641.6
555.8
433.4
323.8
262.9
221.2
196.9
188.9
181.6
172.2
162.9
153.0
142.2
130.9
119.0
107.1
96.3
87.3
81.0
74.2
64.9
56.9
49.9
43.6
36.3
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