

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: P945255

Luminaire Tested: **GALN-SB1B-735-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

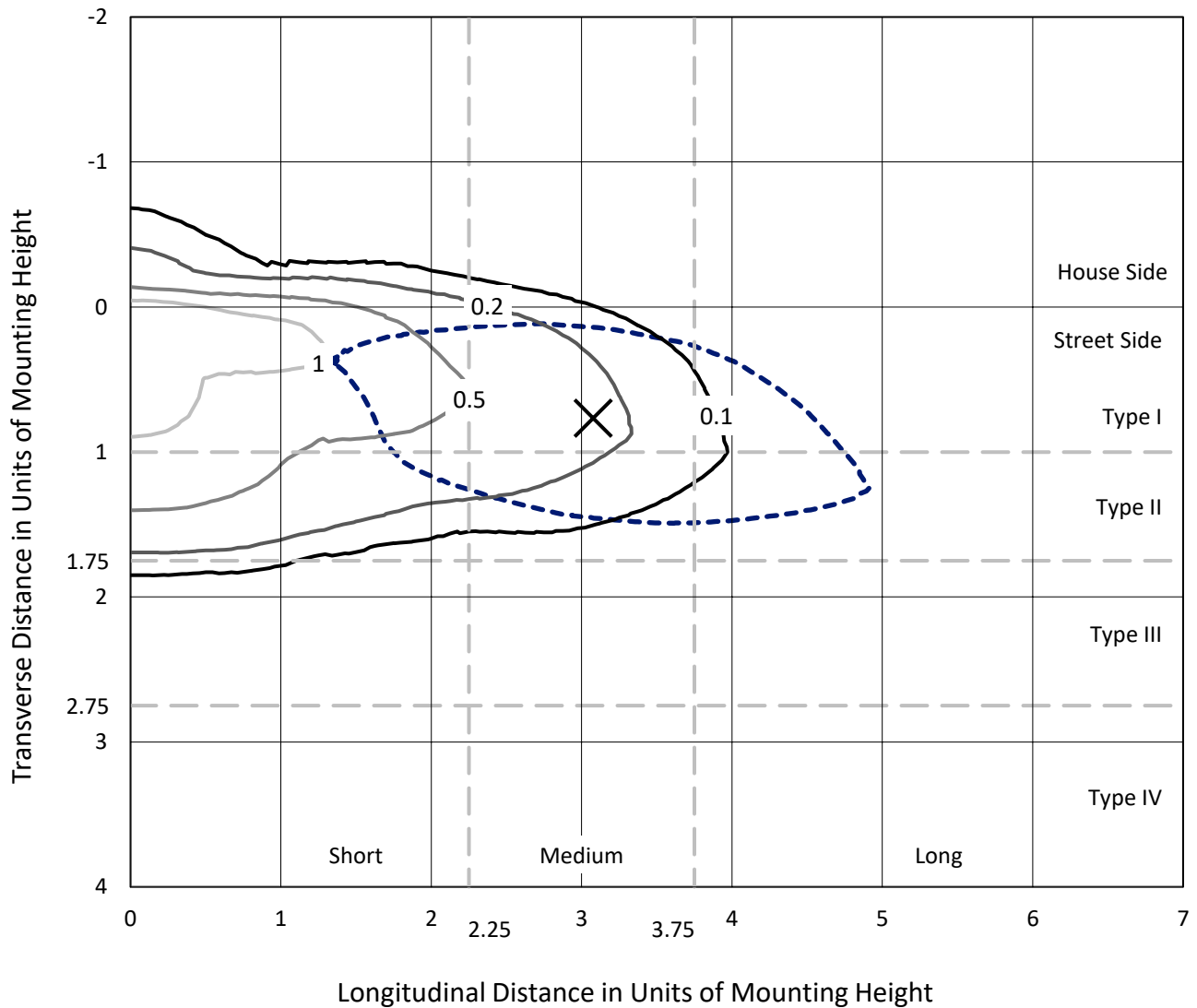
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

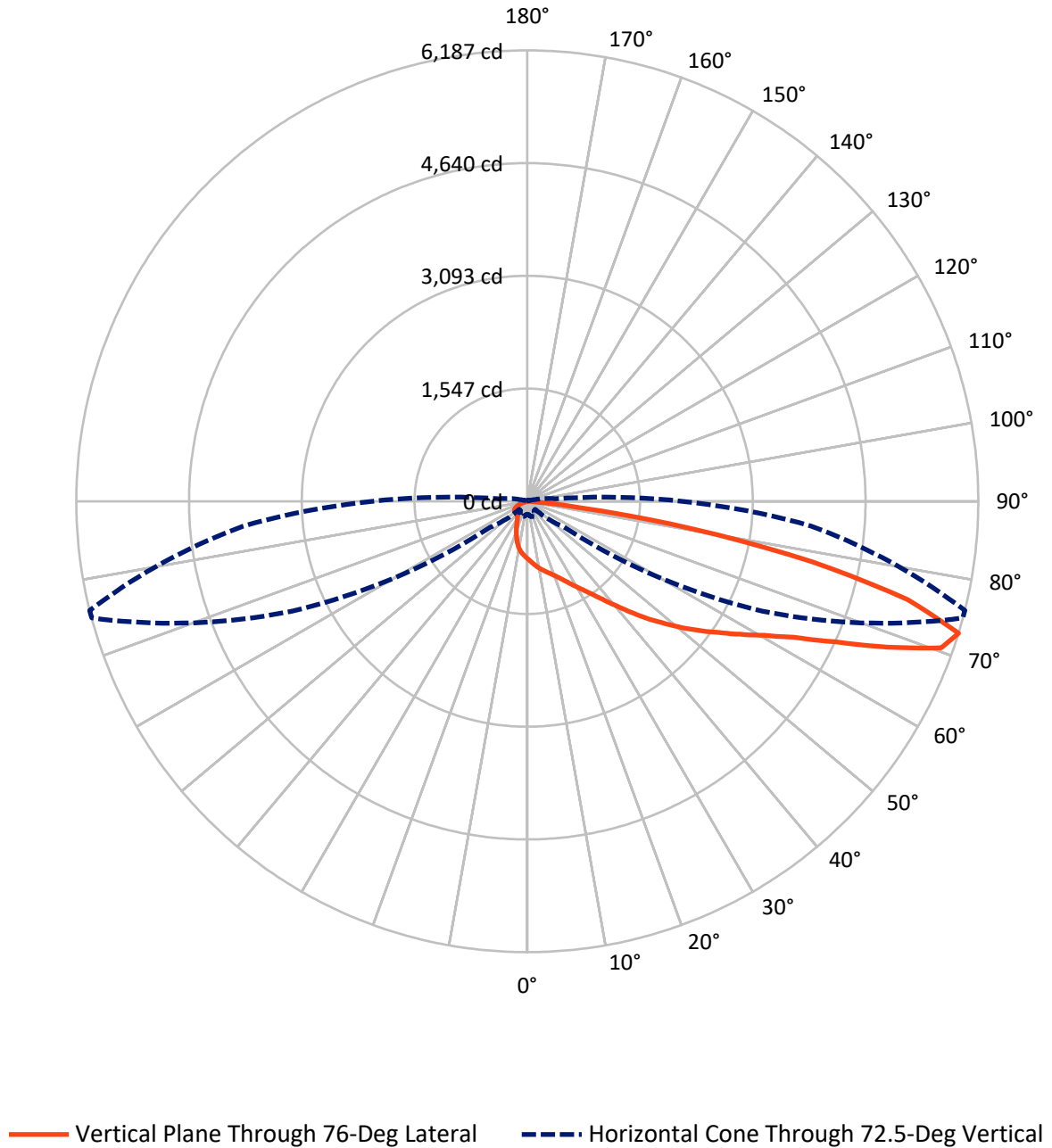
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	467.3	0.0	467.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4098.7	0.0	4098.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	4566.0	0.0	4566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.6
10°-20°	192.4	4.2
20°-30°	304.5	6.7
30°-40°	471.2	10.3
40°-50°	715.6	15.7
50°-60°	986.6	21.6
60°-70°	1042.3	22.8
70°-80°	715.0	15.7
80°-90°	66.6	1.5
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°	4566.0	100.0
0°-180°	4566.0	100.0

Coefficient of Utilization



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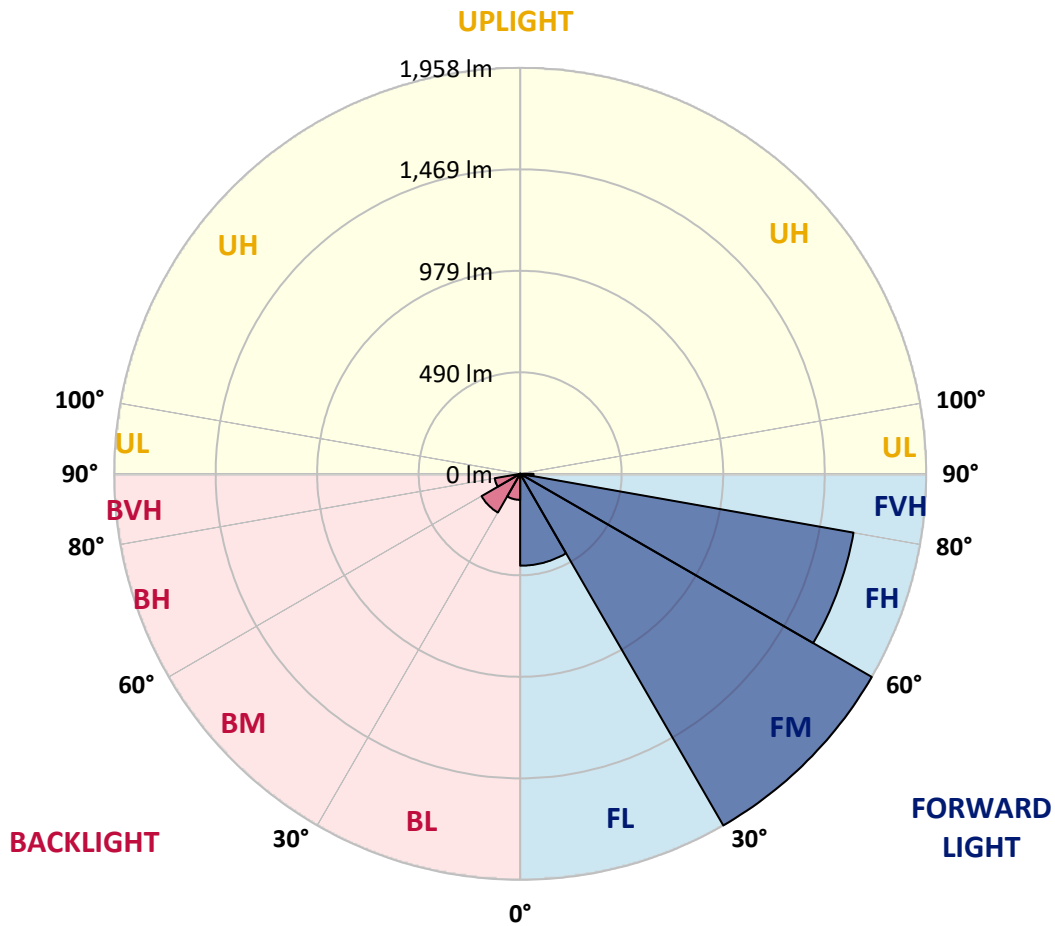
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	9.7			
FM (30°-60°)	1958.3	42.9			
FH (60°-80°)	1632.5	35.8			G1/1800
FVH (80°-90°)	64.8	1.4			G1/100
BL (0°-30°)	125.6	2.8	B1/500		
BM (30°-60°)	215.2	4.7	B0/220		
BH (60°-80°)	124.8	2.7	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0
2.5°	917.3	905.2	907.5	895.4	889.7	876.1	861.9	843.2	822.5	822.5
5°	1013.9	1006.2	1006.2	991.9	981.0	959.6	934.2	901.3	862.2	858.4
7.5°	1073.1	1068.3	1071.3	1063.0	1054.1	1031.9	1001.7	958.8	903.4	898.6
10°	1084.6	1084.3	1092.6	1095.0	1100.9	1089.7	1062.7	1013.3	944.0	937.1
12.5°	1039.9	1034.3	1054.7	1078.7	1112.5	1127.6	1113.7	1063.0	981.0	971.5
15°	966.5	967.6	987.2	1024.2	1080.5	1134.4	1152.5	1111.6	1018.6	1007.3
17.5°	924.4	920.0	936.8	970.0	1032.2	1108.3	1170.5	1156.9	1058.6	1045.8
20°	919.4	919.1	922.9	938.0	985.4	1071.0	1168.5	1201.0	1105.7	1090.9
22.5°	954.3	953.7	950.5	947.5	960.5	1034.6	1159.6	1243.1	1161.9	1146.0
25°	1007.9	1007.0	1002.0	983.9	971.2	1015.0	1151.3	1282.2	1228.6	1210.8
27.5°	1073.4	1072.8	1063.6	1036.4	1003.5	1016.8	1147.1	1322.5	1305.6	1288.1
30°	1153.7	1152.5	1133.5	1095.0	1052.1	1045.0	1152.8	1367.8	1385.9	1372.5
32.5°	1254.4	1251.1	1226.2	1168.2	1108.0	1082.6	1163.4	1414.3	1480.9	1468.5
35°	1332.3	1327.2	1312.7	1261.5	1172.9	1128.8	1188.3	1469.4	1595.3	1584.3
37.5°	1399.2	1394.2	1382.3	1340.3	1265.9	1187.7	1228.3	1542.8	1730.3	1725.0
40°	1471.5	1463.2	1457.5	1412.5	1345.3	1272.7	1285.5	1628.7	1885.8	1886.4
42.5°	1527.1	1523.9	1524.5	1489.8	1422.0	1373.4	1361.3	1725.6	2072.1	2077.8
45°	1574.8	1572.2	1583.1	1558.8	1499.3	1439.5	1450.1	1835.2	2275.9	2287.5
47.5°	1611.6	1614.5	1630.2	1614.5	1579.6	1486.0	1528.9	1953.4	2490.1	2491.5
50°	1648.3	1649.5	1675.5	1667.8	1653.6	1544.9	1601.5	2085.5	2715.7	2718.4
52.5°	1659.8	1658.1	1699.5	1718.5	1719.1	1617.8	1695.4	2229.4	2937.0	2945.6
55°	1600.6	1605.6	1672.6	1749.6	1780.1	1718.5	1822.1	2411.6	3172.8	3176.3
57.5°	1310.9	1338.8	1486.9	1665.5	1819.5	1862.7	2004.3	2624.5	3445.0	3441.7
60°	795.6	828.7	1005.9	1396.8	1690.9	2007.6	2272.6	2954.5	3742.3	3733.2
62.5°	444.9	454.9	511.5	836.1	1286.0	1915.4	2534.8	3378.3	4141.6	4110.5
65°	327.9	331.1	344.5	409.6	632.1	1473.2	2477.3	3885.1	4702.6	4647.2
67.5°	284.9	288.2	301.2	310.1	282.3	773.9	2041.0	4166.2	5414.9	5342.3
70°	239.9	241.7	262.7	268.6	202.0	294.4	1311.2	4079.4	6074.2	6022.4
72.5°	178.9	186.0	216.5	230.7	162.0	156.4	617.3	3566.7	6185.9	6186.5
75°	121.4	128.0	162.9	189.9	125.0	109.6	249.1	2663.3	5386.5	5386.5
77.5°	82.9	88.3	113.4	149.0	94.8	75.2	129.1	1690.3	3864.4	4000.3
80°	36.7	40.0	73.2	108.1	72.0	48.6	73.2	925.6	2336.9	2308.2
82.5°	18.1	20.7	46.8	67.5	46.5	29.9	38.5	440.1	757.4	719.7
85°	3.6	4.7	25.2	28.7	21.6	13.3	14.5	135.4	91.2	104.3
87.5°	0.0	0.0	7.7	5.3	2.4	3.0	3.0	12.1	7.1	8.3
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°
789.0	0°	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0
802.4	2.5°	791.7	780.8	756.8	733.1	708.8	686.6	671.2	655.8	646.3	642.1
820.1	5°	797.9	775.7	725.4	672.6	620.5	569.6	531.4	495.5	484.3	465.6
841.2	7.5°	807.7	771.6	692.2	603.3	518.6	444.0	390.1	347.1	330.0	313.4
859.2	10°	814.2	763.9	648.4	529.6	415.0	331.1	279.6	248.5	237.2	227.2
876.1	12.5°	816.9	749.7	598.0	446.9	322.8	252.4	221.5	207.0	203.2	199.6
892.1	15°	819.3	735.7	541.7	367.3	255.0	211.2	199.0	194.3	191.6	189.3
908.4	17.5°	821.3	718.0	477.5	298.6	215.3	194.6	188.7	183.6	181.6	178.9
931.8	20°	828.4	700.8	420.0	246.4	193.7	182.7	176.2	170.9	169.1	167.3
965.0	22.5°	841.8	686.9	364.3	211.2	180.7	170.6	162.3	156.4	155.2	154.0
1005.3	25°	857.8	669.7	311.9	188.4	167.9	156.7	147.5	142.5	141.3	141.6
1051.8	27.5°	878.2	650.7	266.9	173.9	156.7	143.7	133.3	129.4	130.0	131.2
1105.4	30°	900.7	633.2	231.6	163.8	146.6	132.1	121.7	119.1	121.1	122.9
1177.1	32.5°	934.2	617.8	207.0	155.8	137.7	122.6	114.3	111.1	113.4	115.8
1268.6	35°	979.8	610.1	193.1	149.0	130.0	115.2	106.9	104.6	106.9	107.5
1380.2	37.5°	1035.8	609.6	187.2	143.4	122.9	109.0	99.8	98.9	100.7	101.0
1514.4	40°	1108.0	613.4	182.7	139.2	115.5	101.9	93.3	92.4	93.0	95.1
1675.8	42.5°	1199.6	629.4	176.5	133.9	107.5	94.8	88.0	85.9	85.6	88.0
1856.5	45°	1314.5	664.6	168.2	125.3	100.4	88.9	82.0	79.7	78.8	79.4
2043.1	47.5°	1439.8	707.9	159.9	117.3	95.4	84.1	77.3	74.3	72.9	72.9
2217.6	50°	1561.2	756.8	154.3	109.0	91.8	79.7	72.3	69.3	66.9	66.3
2397.0	52.5°	1681.5	804.7	149.9	100.7	87.7	74.0	67.5	64.3	61.6	60.4
2574.8	55°	1791.0	850.4	142.2	92.7	82.3	68.1	62.8	59.5	56.3	54.2
2754.8	57.5°	1896.2	888.3	128.0	84.4	74.0	62.5	57.8	54.2	50.4	47.7
2937.0	60°	1991.9	907.8	110.2	75.5	65.8	56.6	52.1	48.9	43.8	39.4
3116.2	62.5°	2064.7	900.1	90.9	65.5	57.2	51.2	45.6	42.4	36.4	31.1
3330.9	65°	2139.4	858.1	72.6	54.8	50.1	44.1	38.2	35.0	28.1	22.5
3621.5	67.5°	2236.2	768.3	57.2	45.6	43.2	35.0	29.9	27.8	23.1	17.8
3933.4	70°	2298.4	596.8	44.4	37.0	35.5	25.5	23.1	22.8	18.4	13.6
3912.3	72.5°	2127.8	391.3	34.1	28.1	25.5	16.6	17.8	17.8	13.3	9.2
3429.6	75°	1776.2	229.0	24.6	20.1	14.5	10.7	12.1	12.1	8.3	4.4
2444.4	77.5°	1268.6	122.0	16.3	12.4	7.4	4.7	6.5	6.2	2.7	0.3
958.2	80°	485.2	42.1	7.7	5.0	2.1	0.9	0.6	0.3	0.3	0.0
149.6	82.5°	74.0	11.0	1.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
31.7	85°	13.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	3.0	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>
789.0
642.7
466.8
313.1
226.9
199.6
189.3
178.9
167.6
153.1
141.0
130.6
122.3
115.2
107.2
100.4
94.8
87.7
80.3
72.9
66.0
59.8
53.3
46.5
38.2
29.0
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