

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: P945024

Luminaire Tested: **GALN-SB1A-835-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945024
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-SB1A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA 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: 3373 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

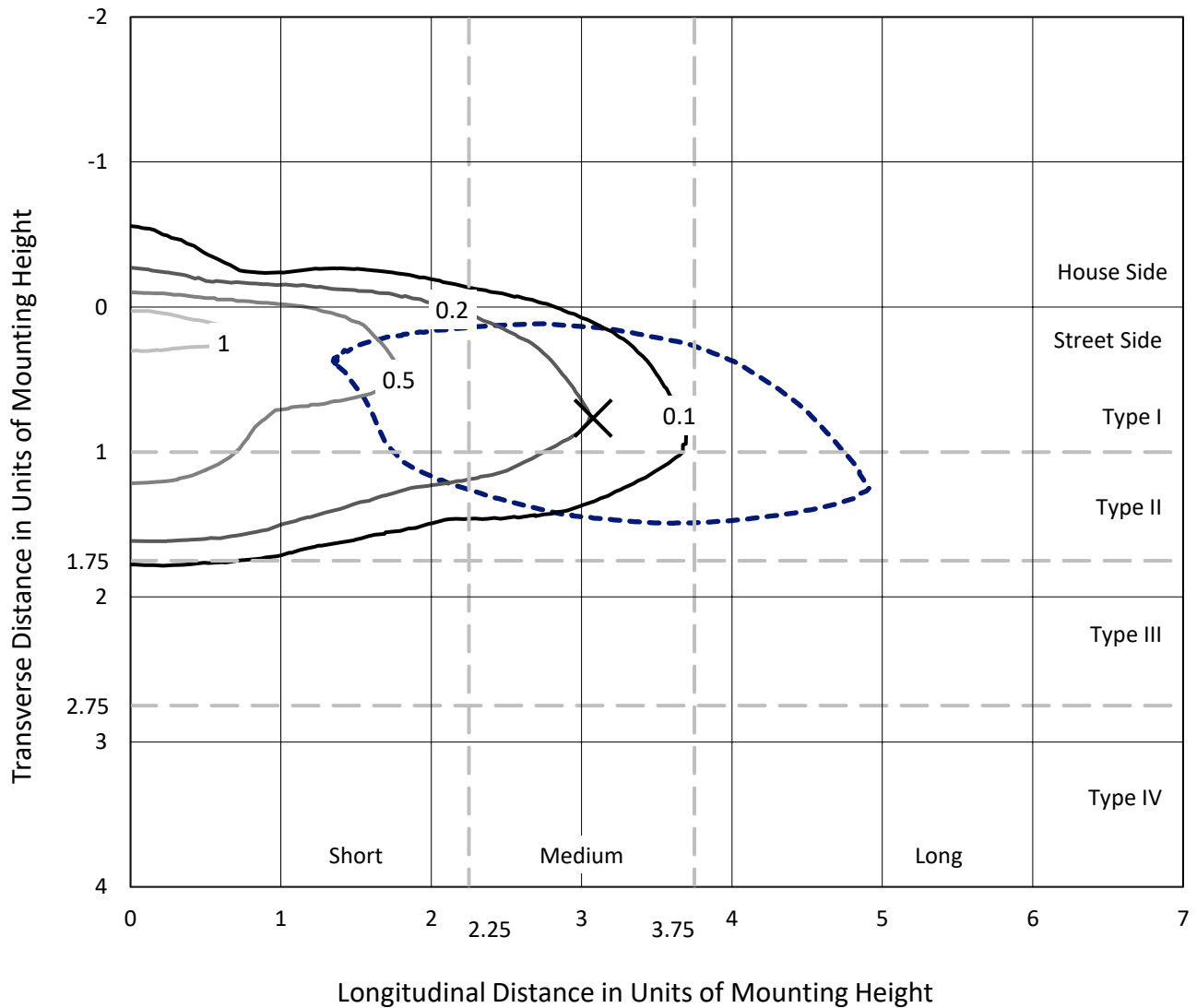
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

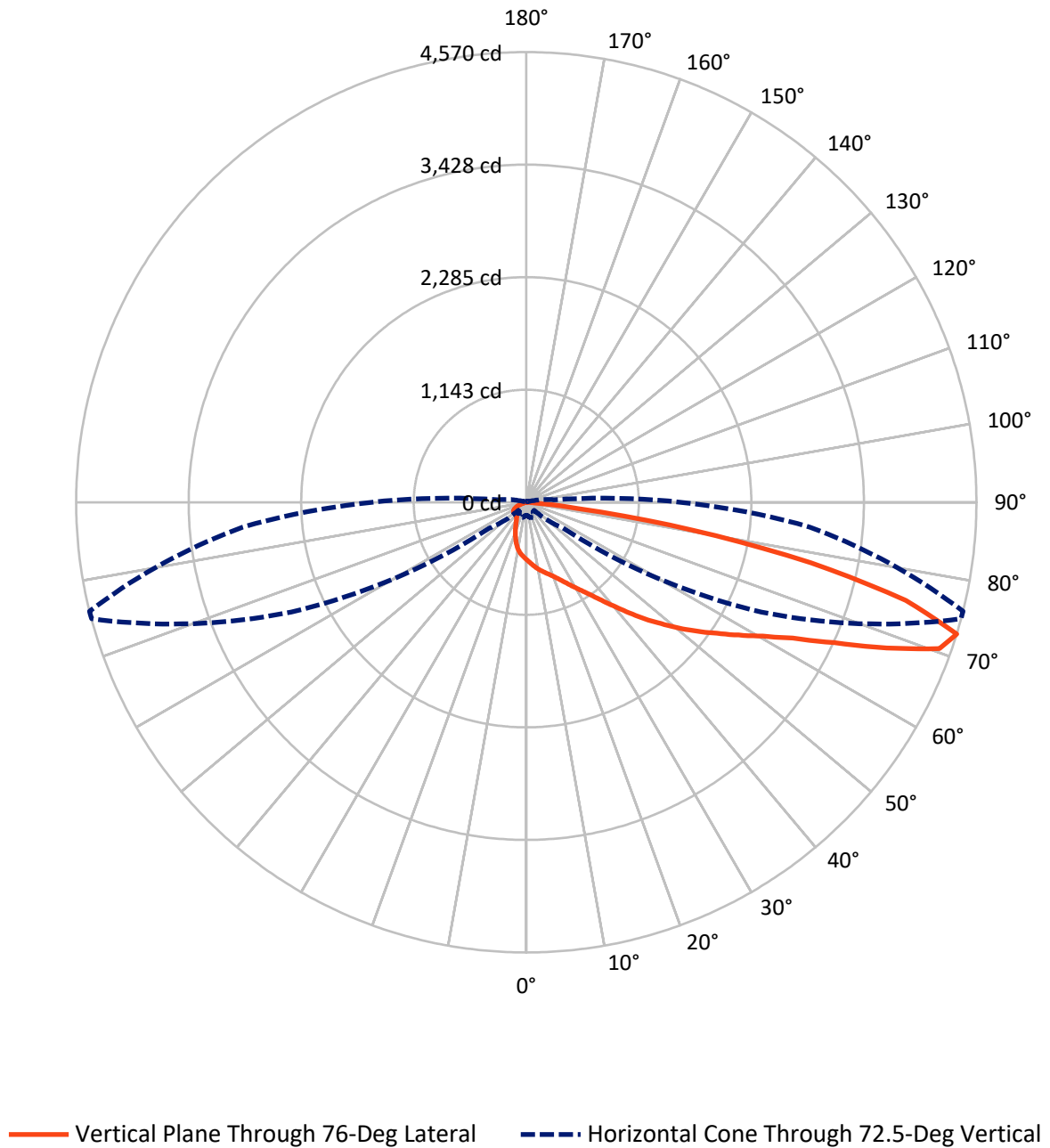
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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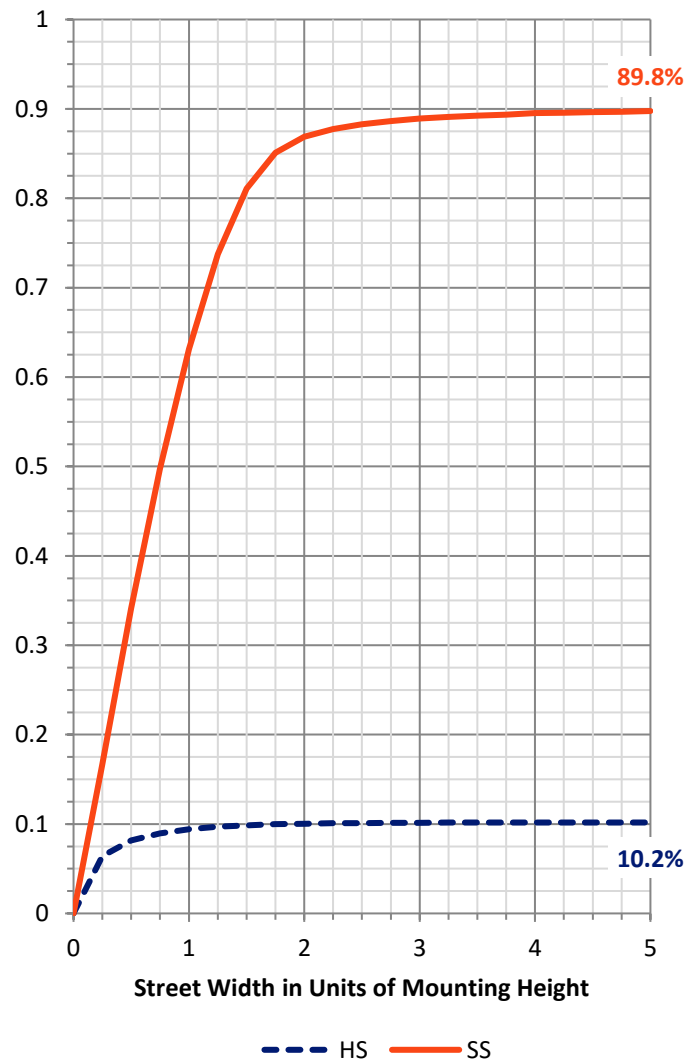
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	345.2	0.0	345.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3027.8	0.0	3027.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	3373.0	0.0	3373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.6
10°-20°	142.1	4.2
20°-30°	225.0	6.7
30°-40°	348.1	10.3
40°-50°	528.7	15.7
50°-60°	728.8	21.6
60°-70°	770.0	22.8
70°-80°	528.2	15.7
80°-90°	49.2	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°	3373.0	100.0
0°-180°	3373.0	100.0

Coefficient of Utilization



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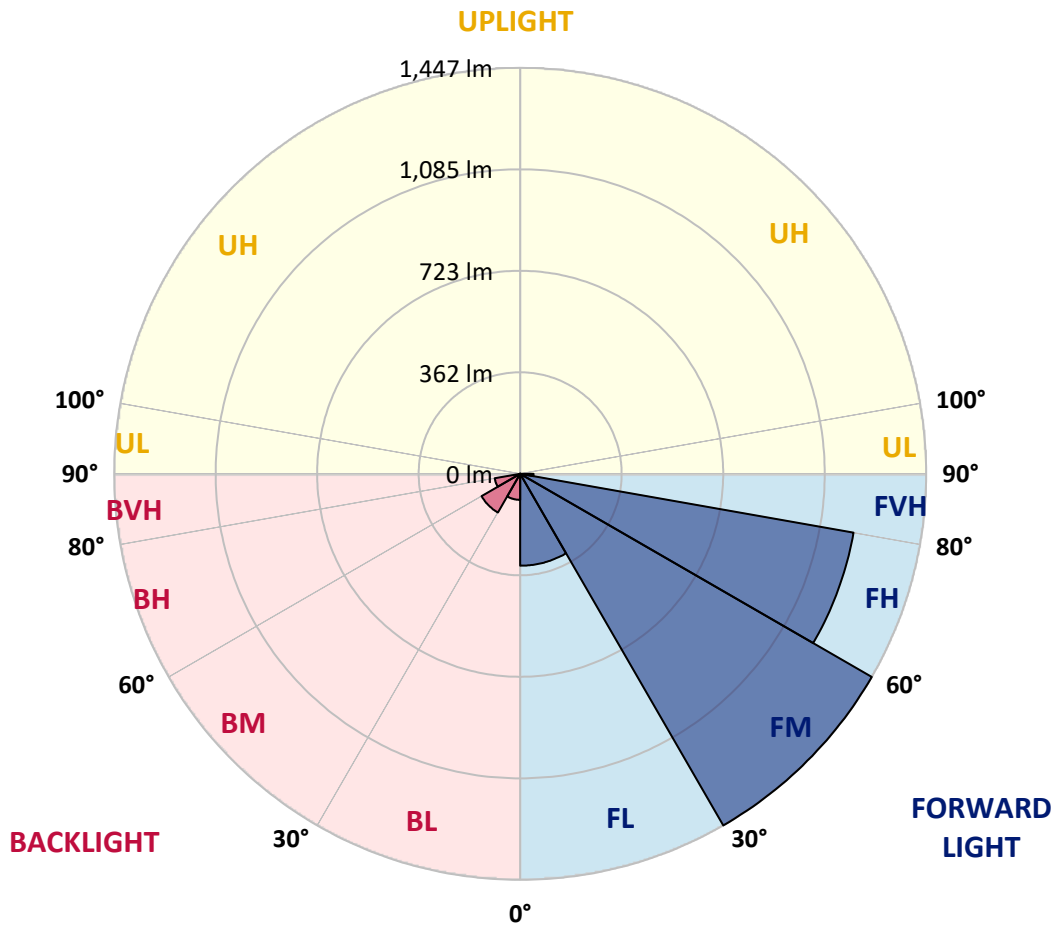
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.3	9.7			
FM (30°-60°)	1446.6	42.9			
FH (60°-80°)	1206.0	35.8			G1/1800
FVH (80°-90°)	47.8	1.4			G1/100
BL (0°-30°)	92.8	2.8	B0/110		
BM (30°-60°)	158.9	4.7	B0/220		
BH (60°-80°)	92.2	2.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	677.6	668.7	670.4	661.4	657.3	647.2	636.7	622.9	607.6	607.6
5°	749.0	743.3	743.3	732.8	724.7	708.9	690.1	665.8	636.9	634.1
7.5°	792.7	789.2	791.4	785.3	778.7	762.3	740.0	708.3	667.3	663.8
10°	801.2	801.0	807.2	808.9	813.3	805.0	785.1	748.5	697.3	692.3
12.5°	768.2	764.1	779.1	796.9	821.8	833.0	822.7	785.3	724.7	717.7
15°	713.9	714.8	729.3	756.6	798.2	838.0	851.4	821.2	752.5	744.1
17.5°	682.9	679.6	692.1	716.6	762.5	818.8	864.7	854.6	782.0	772.6
20°	679.2	678.9	681.8	692.9	727.9	791.2	863.2	887.2	816.8	805.8
22.5°	705.0	704.5	702.1	699.9	709.6	764.3	856.6	918.3	858.4	846.5
25°	744.6	743.9	740.2	726.9	717.4	749.8	850.5	947.2	907.6	894.5
27.5°	792.9	792.5	785.7	765.6	741.3	751.1	847.4	976.9	964.5	951.6
30°	852.2	851.4	837.3	808.9	777.2	771.9	851.6	1010.4	1023.8	1013.9
32.5°	926.6	924.2	905.8	862.9	818.5	799.7	859.4	1044.8	1094.0	1084.8
35°	984.2	980.4	969.7	931.9	866.4	833.8	877.8	1085.5	1178.5	1170.4
37.5°	1033.6	1029.9	1021.1	990.1	935.2	877.4	907.4	1139.7	1278.2	1274.3
40°	1087.0	1080.9	1076.7	1043.5	993.8	940.2	949.6	1203.2	1393.1	1393.5
42.5°	1128.1	1125.7	1126.2	1100.6	1050.5	1014.6	1005.6	1274.7	1530.7	1534.9
45°	1163.4	1161.4	1169.5	1151.5	1107.6	1063.4	1071.2	1355.7	1681.3	1689.8
47.5°	1190.5	1192.7	1204.3	1192.7	1166.9	1097.7	1129.4	1443.0	1839.5	1840.5
50°	1217.6	1218.5	1237.8	1232.1	1221.6	1141.3	1183.1	1540.6	2006.2	2008.1
52.5°	1226.2	1224.8	1255.5	1269.5	1269.9	1195.1	1252.4	1646.9	2169.6	2176.0
55°	1182.4	1186.1	1235.6	1292.5	1315.0	1269.5	1346.1	1781.5	2343.8	2346.4
57.5°	968.4	989.0	1098.4	1230.3	1344.1	1376.0	1480.6	1938.8	2544.9	2542.5
60°	587.7	612.2	743.0	1031.9	1249.1	1483.0	1678.9	2182.5	2764.5	2757.8
62.5°	328.6	336.1	377.9	617.7	950.0	1415.0	1872.5	2495.6	3059.5	3036.5
65°	242.2	244.6	254.5	302.6	466.9	1088.3	1830.0	2870.0	3473.9	3433.0
67.5°	210.5	212.9	222.5	229.1	208.5	571.7	1507.8	3077.6	4000.1	3946.5
70°	177.2	178.5	194.1	198.5	149.2	217.5	968.6	3013.5	4487.2	4448.9
72.5°	132.2	137.4	159.9	170.4	119.7	115.5	456.0	2634.8	4569.6	4570.1
75°	89.7	94.5	120.3	140.3	92.3	81.0	184.0	1967.5	3979.1	3979.1
77.5°	61.3	65.2	83.8	110.1	70.0	55.6	95.4	1248.7	2854.7	2955.1
80°	27.1	29.5	54.0	79.9	53.2	35.9	54.0	683.8	1726.3	1705.1
82.5°	13.3	15.3	34.6	49.9	34.4	22.1	28.4	325.1	559.5	531.7
85°	2.6	3.5	18.6	21.2	16.0	9.8	10.7	100.0	67.4	77.0
87.5°	0.0	0.0	5.7	3.9	1.8	2.2	2.2	9.0	5.3	6.1
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°
582.9	0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
592.7	2.5°	584.9	576.8	559.0	541.5	523.6	507.2	495.8	484.4	477.4	474.4
605.9	5°	589.4	573.0	535.8	496.9	458.4	420.8	392.5	366.1	357.7	344.0
621.4	7.5°	596.7	570.0	511.3	445.7	383.1	328.0	288.2	256.4	243.7	231.5
634.7	10°	601.5	564.3	479.0	391.2	306.5	244.6	206.5	183.6	175.3	167.8
647.2	12.5°	603.5	553.8	441.8	330.2	238.5	186.4	163.7	152.9	150.1	147.5
659.0	15°	605.2	543.5	400.2	271.3	188.4	156.0	147.0	143.5	141.6	139.8
671.1	17.5°	606.7	530.4	352.7	220.6	159.1	143.8	139.4	135.7	134.1	132.2
688.3	20°	612.0	517.7	310.3	182.0	143.1	135.0	130.2	126.2	124.9	123.6
712.9	22.5°	621.8	507.4	269.1	156.0	133.5	126.0	119.9	115.5	114.7	113.8
742.6	25°	633.6	494.7	230.4	139.2	124.1	115.7	109.0	105.2	104.4	104.6
777.0	27.5°	648.7	480.7	197.1	128.4	115.7	106.1	98.5	95.6	96.1	96.9
816.6	30°	665.4	467.8	171.1	121.0	108.3	97.6	89.9	88.0	89.5	90.8
869.5	32.5°	690.1	456.4	152.9	115.1	101.7	90.6	84.5	82.1	83.8	85.6
937.1	35°	723.8	450.7	142.7	110.1	96.1	85.1	79.0	77.2	79.0	79.4
1019.6	37.5°	765.1	450.3	138.3	105.9	90.8	80.5	73.7	73.1	74.4	74.6
1118.7	40°	818.5	453.1	135.0	102.8	85.3	75.3	68.9	68.3	68.7	70.2
1238.0	42.5°	886.1	465.0	130.4	98.9	79.4	70.0	65.0	63.5	63.2	65.0
1371.4	45°	971.0	491.0	124.3	92.6	74.2	65.6	60.6	58.9	58.2	58.6
1509.3	47.5°	1063.6	522.9	118.2	86.6	70.5	62.1	57.1	54.9	53.8	53.8
1638.2	50°	1153.3	559.0	114.0	80.5	67.8	58.9	53.4	51.2	49.4	49.0
1770.8	52.5°	1242.1	594.5	110.7	74.4	64.8	54.7	49.9	47.5	45.5	44.6
1902.0	55°	1323.1	628.2	105.0	68.5	60.8	50.3	46.4	44.0	41.6	40.0
2035.1	57.5°	1400.8	656.2	94.5	62.4	54.7	46.2	42.7	40.0	37.2	35.2
2169.6	60°	1471.4	670.6	81.4	55.8	48.6	41.8	38.5	36.1	32.4	29.1
2302.0	62.5°	1525.3	664.9	67.2	48.4	42.2	37.9	33.7	31.3	26.9	23.0
2460.6	65°	1580.4	633.9	53.6	40.5	37.0	32.6	28.2	25.8	20.8	16.6
2675.3	67.5°	1651.9	567.6	42.2	33.7	31.9	25.8	22.1	20.6	17.1	13.1
2905.7	70°	1697.9	440.9	32.8	27.4	26.3	18.8	17.1	16.8	13.6	10.1
2890.1	72.5°	1571.9	289.0	25.2	20.8	18.8	12.3	13.1	13.1	9.8	6.8
2533.5	75°	1312.1	169.1	18.2	14.9	10.7	7.9	9.0	9.0	6.1	3.3
1805.8	77.5°	937.1	90.1	12.0	9.2	5.5	3.5	4.8	4.6	2.0	0.2
707.8	80°	358.4	31.1	5.7	3.7	1.5	0.7	0.4	0.2	0.2	0.0
110.5	82.5°	54.7	8.1	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
23.4	85°	9.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.1	87.5°	2.2	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>
582.9
474.8
344.8
231.3
167.6
147.5
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123.8
113.1
104.1
96.5
90.4
85.1
79.2
74.2
70.0
64.8
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48.8
44.2
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