

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: P955248

Luminaire Tested: **GALN-SB8B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38823 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

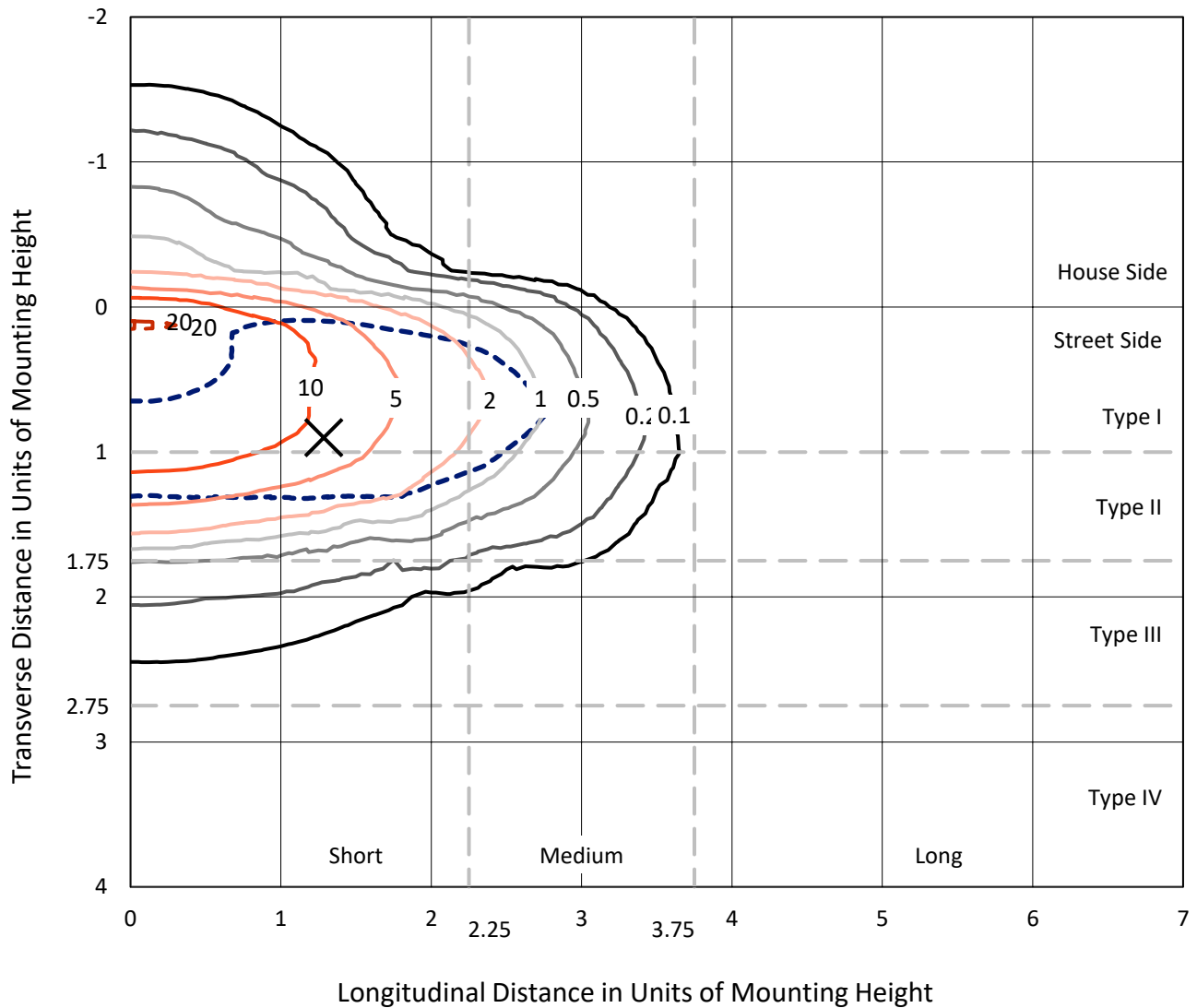
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

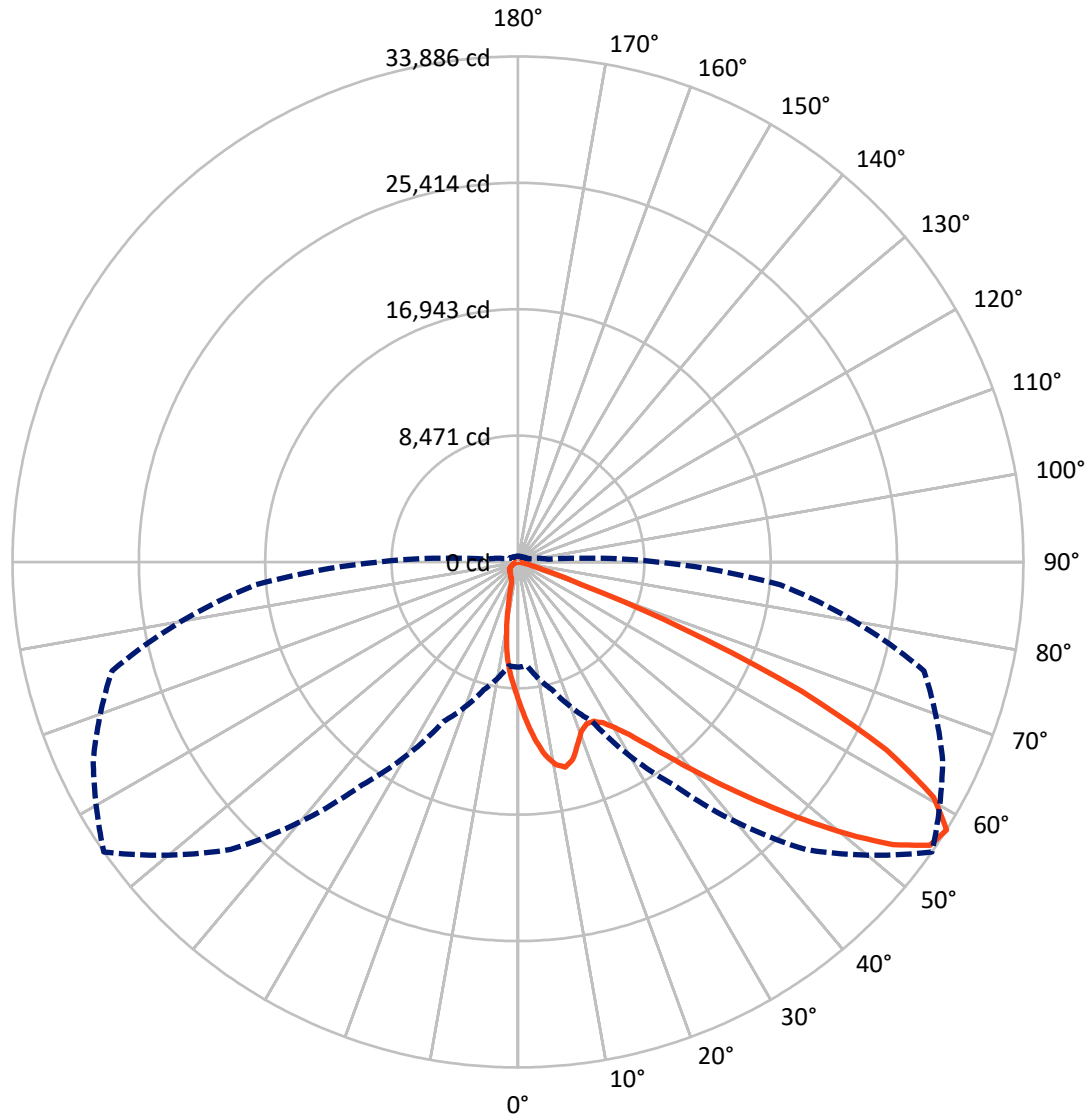
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3031.9	0.0	3031.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	35791.1	0.0	35791.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	38823.0	0.0	38823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.5	2.2
10°-20°	2102.6	5.4
20°-30°	3364.2	8.7
30°-40°	5694.0	14.7
40°-50°	9348.4	24.1
50°-60°	10274.6	26.5
60°-70°	5893.5	15.2
70°-80°	1204.2	3.1
80°-90°	71.0	0.2
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°	38823.0	100.0
0°-180°	38823.0	100.0

Coefficient of Utilization



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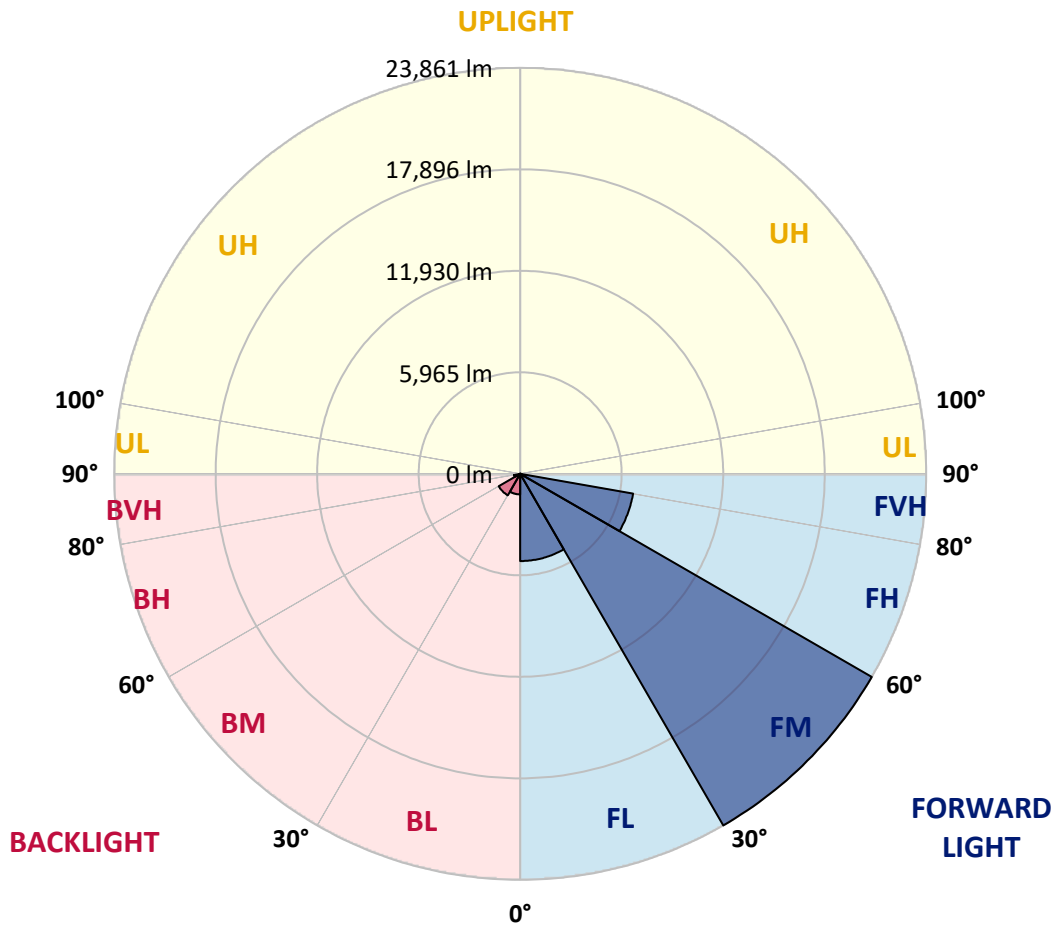
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5126.8	13.2			
FM (30°-60°)	23860.9	61.5			
FH (60°-80°)	6737.1	17.4			G3/7500
FVH (80°-90°)	66.2	0.2			G1/100
BL (0°-30°)	1210.4	3.1	B3/2500		
BM (30°-60°)	1456.1	3.8	B2/2500		
BH (60°-80°)	360.6	0.9	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4
2.5°	11608.1	11462.0	11440.5	11411.8	11134.1	10925.8	10624.2	10293.8	9922.7	9544.5
5°	13410.7	13295.8	13274.2	13140.2	12824.2	12469.9	11933.6	11256.1	10564.3	9750.4
7.5°	13760.2	13738.6	13836.8	13832.0	13788.9	13508.8	13056.4	12249.6	11210.7	10004.1
10°	12201.7	12256.8	12548.9	12805.0	13496.8	13899.0	13800.9	13135.4	11876.2	10293.8
12.5°	10782.2	10717.5	10925.8	11215.5	12019.8	13216.8	14109.7	13875.1	12637.4	10621.8
15°	9891.6	9865.3	9982.6	10116.6	10729.5	11936.0	13750.6	14476.0	13370.0	11009.6
17.5°	9606.7	9585.2	9621.1	9654.6	10052.0	10985.6	12896.0	14844.6	14071.4	11452.4
20°	9839.0	9810.2	9805.4	9779.1	9944.3	10581.1	12122.7	14870.9	14701.0	11854.6
22.5°	10516.4	10482.9	10365.6	10260.3	10274.6	10636.1	11778.0	14607.6	15175.0	12230.5
25°	11744.5	11689.4	11445.3	11091.0	10865.9	11019.2	11830.7	14260.5	15627.4	12524.9
27.5°	13281.4	13209.6	12896.0	12369.3	11854.6	11667.9	12211.3	14021.1	16003.3	12749.9
30°	14787.2	14693.8	14385.0	13975.6	13223.9	12635.0	12898.4	14126.4	16450.9	12984.5
32.5°	16412.6	16324.0	15914.7	15407.2	14784.8	13992.4	13839.2	14641.1	16999.1	13312.5
35°	18469.0	18330.1	17748.4	17056.6	16395.9	15593.9	15112.7	15529.3	17729.3	13812.8
37.5°	20810.2	20623.5	19996.3	19041.1	18179.3	17281.6	16664.0	16750.2	18799.3	14483.1
40°	23017.4	22847.4	22268.1	21368.0	20286.0	19196.7	18538.4	18346.9	20276.4	15299.5
42.5°	24341.2	24188.0	23943.9	23563.2	22651.1	21540.4	20709.7	20295.5	22023.9	16276.2
45°	24415.5	24281.4	24609.4	25052.2	24872.7	24133.0	23120.3	22361.5	23778.7	17193.0
47.5°	23228.1	23137.1	24133.0	25679.4	26450.3	26761.5	25827.9	24255.1	25227.0	17851.4
50°	19991.5	19958.0	22007.2	24846.4	27051.1	29064.4	28683.8	26017.0	26349.7	18191.3
52.5°	17334.3	17212.2	18406.7	22179.5	26177.4	30275.7	31475.1	27745.4	27134.9	18255.9
55°	13147.3	13039.6	14538.2	17717.3	23359.7	29844.8	33517.1	29528.8	27697.5	18090.8
57.5°	7052.4	6985.4	8879.0	11792.4	18260.7	27259.4	33885.7	31415.2	28171.5	17652.7
60°	2745.8	2733.8	3442.4	5721.4	11098.2	22177.1	32025.7	32547.6	28468.3	17114.0
62.5°	1661.4	1697.3	1812.2	2568.7	4902.7	13776.9	27738.2	31259.6	28667.0	16620.9
65°	1374.1	1376.5	1390.9	1764.3	2348.4	5764.5	20882.0	27022.4	28176.3	15742.3
67.5°	1177.8	1199.3	1254.4	1400.4	1656.6	2528.0	12022.2	20932.3	25191.1	13697.9
70°	928.8	957.6	1027.0	1151.5	1278.3	1582.4	4443.1	13927.7	19244.6	10324.9
72.5°	782.8	780.4	816.3	936.0	1015.0	1113.2	1709.2	7804.1	11184.3	4929.1
75°	605.7	629.6	675.1	782.8	830.7	806.7	926.4	2851.1	4007.4	1493.8
77.5°	474.0	493.1	533.8	639.2	687.1	572.1	533.8	1019.8	1287.9	536.2
80°	213.1	229.8	363.9	471.6	560.2	395.0	289.7	521.9	572.1	244.2
82.5°	38.3	64.6	213.1	249.0	287.3	256.1	150.8	270.5	280.1	98.2
85°	2.4	4.8	74.2	91.0	114.9	83.8	45.5	107.7	93.4	33.5
87.5°	0.0	0.0	0.0	2.4	2.4	12.0	14.4	19.2	14.4	12.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9355.4	0°	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4	9355.4
9376.9	2.5°	9204.6	8864.6	8534.3	8263.8	8105.8	7837.6	7660.5	7631.8	7557.6	7622.2
9400.9	5°	9027.4	8419.4	7804.1	7253.5	6801.1	6217.0	5781.3	5597.0	5436.6	5491.6
9463.1	7.5°	8943.6	7983.7	7026.1	6085.3	5118.2	4184.5	3490.3	3200.7	2980.4	3011.5
9532.5	10°	8831.1	7531.2	6030.3	4593.9	3298.8	2377.1	1898.4	1721.2	1623.1	1625.5
9635.5	12.5°	8744.9	6990.2	4874.0	3114.5	2008.5	1517.7	1369.3	1326.2	1297.5	1299.9
9791.1	15°	8701.8	6353.4	3732.1	2075.5	1436.3	1285.5	1249.6	1230.5	1211.3	1208.9
9963.4	17.5°	8630.0	5644.8	2731.4	1515.3	1256.8	1204.1	1173.0	1151.5	1127.5	1122.7
10111.9	20°	8522.3	4840.5	1996.5	1280.7	1177.8	1137.1	1094.0	1065.3	1036.6	1031.8
10205.2	22.5°	8323.6	3990.6	1534.5	1185.0	1120.3	1074.9	1022.2	988.7	960.0	955.2
10159.7	25°	7955.0	3193.5	1292.7	1125.1	1070.1	1015.0	957.6	912.1	885.7	881.0
10061.6	27.5°	7488.1	2508.8	1173.0	1070.1	1005.4	955.2	890.5	847.4	823.5	818.7
9932.3	30°	6937.5	1931.9	1103.6	1007.8	928.8	885.7	828.3	792.4	778.0	778.0
9841.3	32.5°	6343.9	1544.1	1074.9	945.6	861.8	813.9	768.4	754.1	749.3	746.9
9891.6	35°	5786.1	1340.6	1060.5	895.3	802.0	756.5	737.3	739.7	749.3	749.3
10047.2	37.5°	5290.5	1276.0	1053.3	859.4	749.3	708.6	720.6	742.1	732.5	732.5
10320.1	40°	4842.9	1283.1	1048.5	833.1	706.2	682.3	706.2	689.4	665.5	663.1
10652.9	42.5°	4500.5	1343.0	1039.0	811.5	679.9	663.1	653.5	627.2	624.8	629.6
10997.6	45°	4251.6	1395.6	1036.6	802.0	651.1	620.0	608.1	581.7	629.6	641.6
11138.8	47.5°	3957.1	1395.6	1036.6	768.4	603.3	591.3	572.1	543.4	591.3	603.3
11004.8	50°	3576.5	1307.1	995.9	730.1	565.0	557.8	524.3	488.4	478.8	486.0
10691.2	52.5°	3095.3	1146.7	892.9	677.5	526.7	512.3	471.6	445.3	438.1	438.1
10128.6	55°	2547.1	960.0	754.1	600.9	486.0	459.6	430.9	418.9	411.8	407.0
9341.0	57.5°	2070.7	787.6	605.7	533.8	447.7	414.1	404.6	390.2	378.2	371.1
8682.7	60°	1699.7	620.0	500.3	474.0	409.4	378.2	375.8	356.7	325.6	320.8
8139.3	62.5°	1311.9	454.8	421.3	411.8	371.1	344.7	339.9	301.6	253.8	244.2
7368.4	65°	926.4	354.3	339.9	361.5	330.4	306.4	294.5	237.0	186.7	179.5
6166.7	67.5°	651.1	296.8	268.1	316.0	287.3	256.1	249.0	201.1	155.6	150.8
4663.3	70°	464.4	241.8	220.2	270.5	229.8	225.0	210.7	167.6	126.9	122.1
2307.7	72.5°	328.0	184.3	170.0	234.6	158.0	193.9	172.4	129.3	95.8	91.0
785.2	75°	241.8	131.7	119.7	136.5	114.9	146.0	122.1	86.2	59.8	57.5
354.3	77.5°	177.1	83.8	71.8	67.0	67.0	91.0	67.0	35.9	26.3	23.9
179.5	80°	124.5	38.3	33.5	28.7	26.3	21.5	9.6	4.8	2.4	2.4
62.2	82.5°	74.2	16.8	16.8	12.0	7.2	0.0	0.0	0.0	0.0	0.0
23.9	85°	16.8	7.2	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.6	87.5°	2.4	2.4	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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