

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: P954534

Luminaire Tested: **GALN-SB7D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954534
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-SB7D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA 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: 61703 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

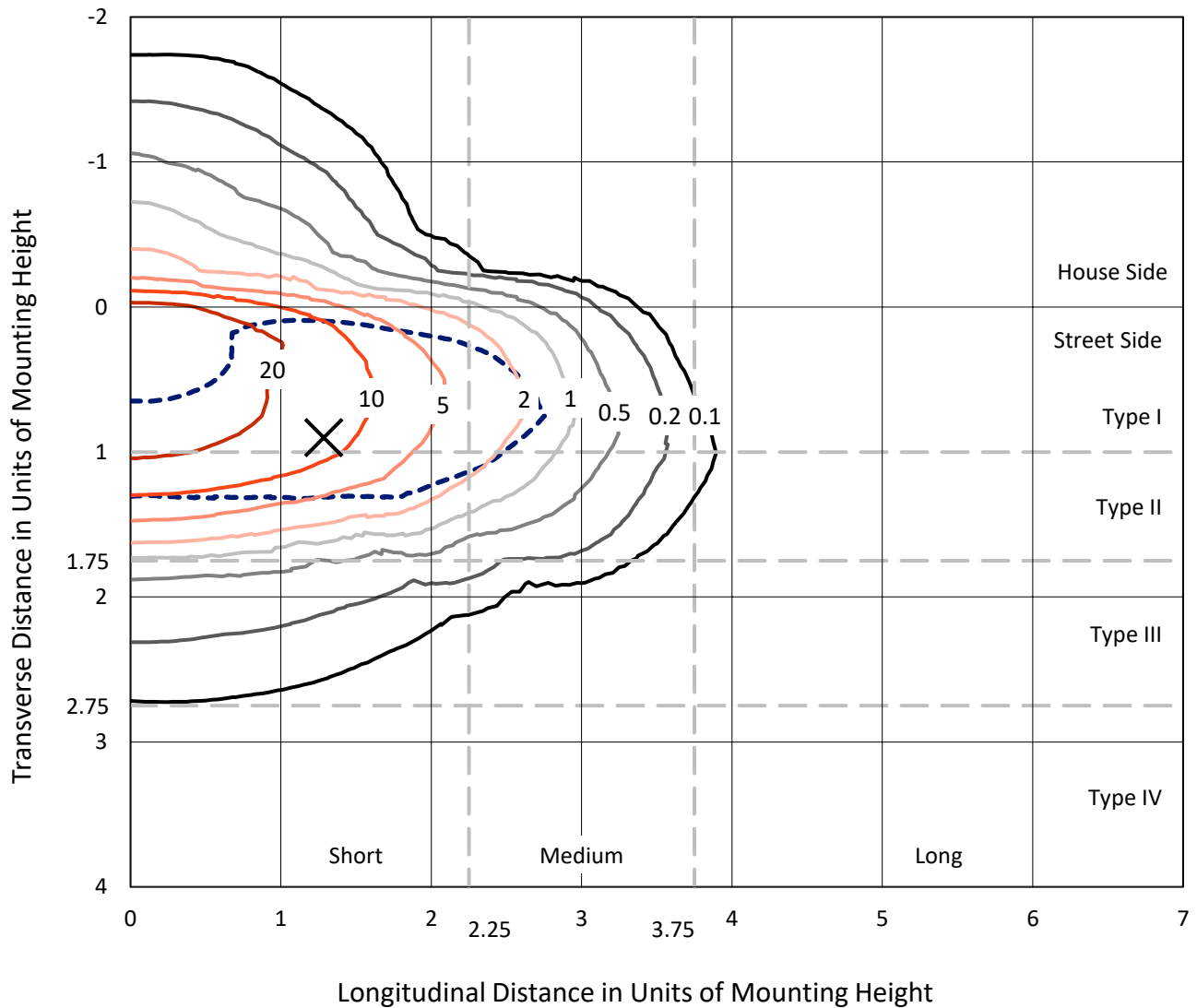
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954534
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Iso-Footcandle Lines of Horizontal Illumination

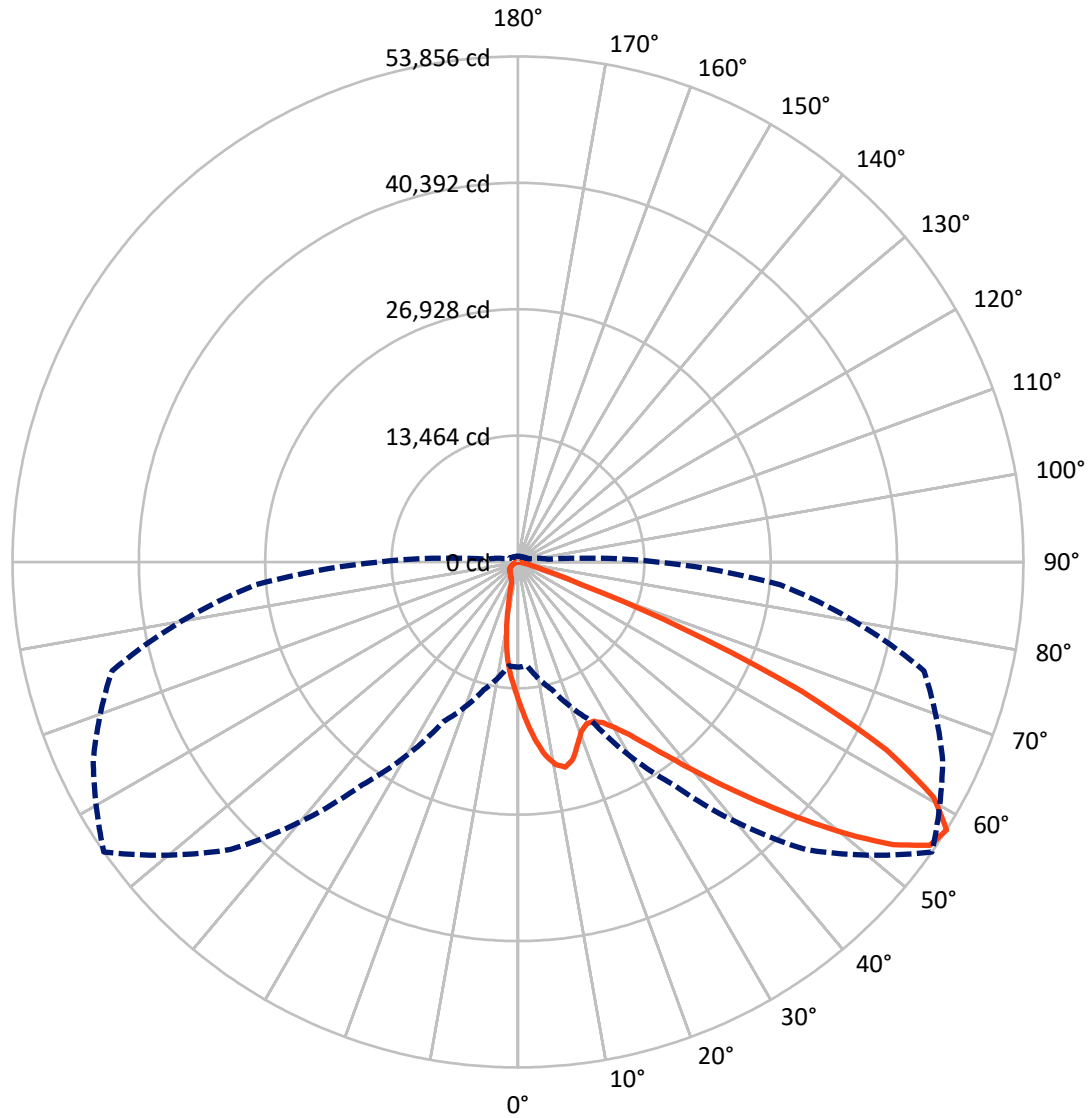
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.1 fc
 Type II - Short - N/A

REPORT NUMBER: P954534
CATALOG NUMBER: GALN-SB7D-735-U-AFL-HSS

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	4818.7	0.0	4818.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	56884.2	0.0	56884.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	61703.0	0.0	61703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1383.5	2.2
10°-20°	3341.8	5.4
20°-30°	5346.8	8.7
30°-40°	9049.8	14.7
40°-50°	14857.8	24.1
50°-60°	16329.8	26.5
60°-70°	9366.8	15.2
70°-80°	1913.9	3.1
80°-90°	112.9	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°	61703.0	100.0
0°-180°	61703.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954534

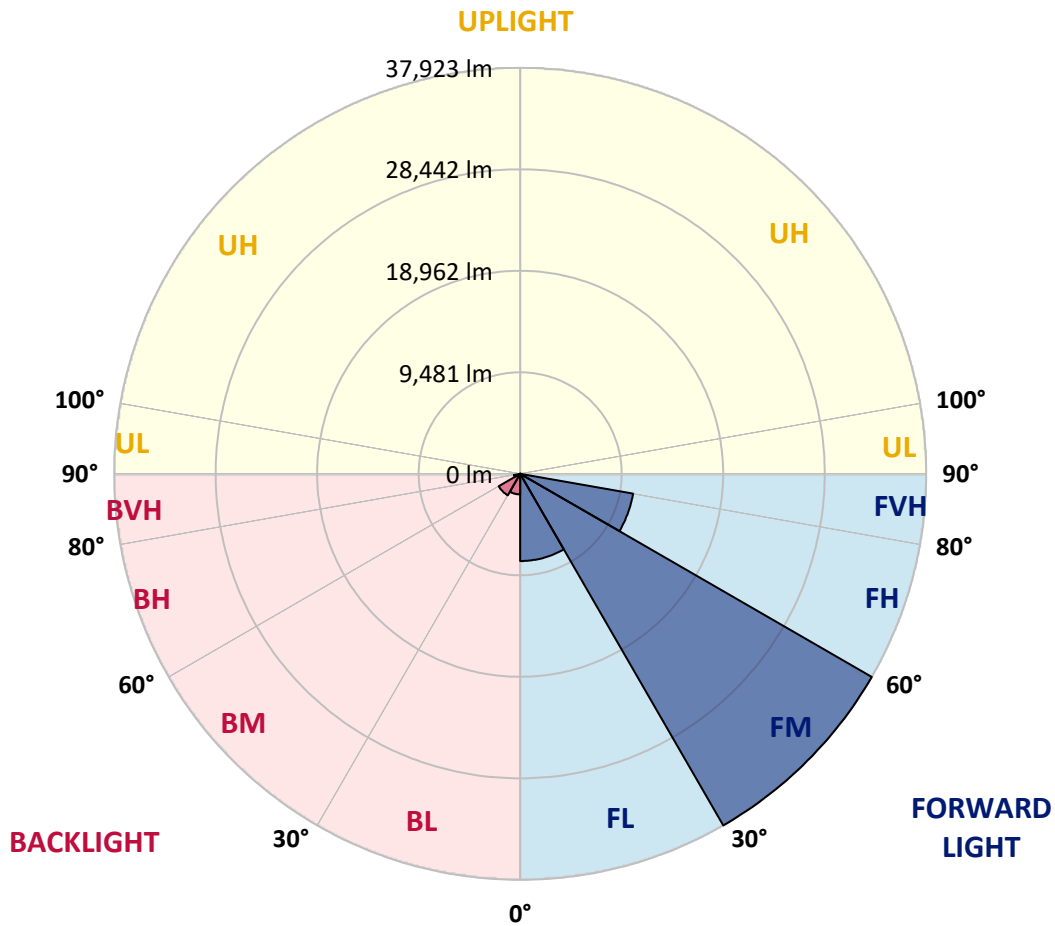
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8148.3	13.2			
FM (30°-60°)	37923.1	61.5			
FH (60°-80°)	10707.6	17.4			G4/12000
FVH (80°-90°)	105.3	0.2			G2/225
BL (0°-30°)	1923.8	3.1	B3/2500		
BM (30°-60°)	2314.3	3.8	B2/2500		
BH (60°-80°)	573.1	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.6	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-G4

Type II Short



REPORT NUMBER: P954534
 CATALOG NUMBER: GALN-SB7D-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9
2.5°	18449.2	18217.1	18182.8	18137.2	17695.8	17364.8	16885.4	16360.4	15770.6	15169.5
5°	21314.1	21131.5	21097.3	20884.2	20382.0	19818.9	18966.6	17889.9	16790.3	15496.7
7.5°	21869.6	21835.4	21991.4	21983.8	21915.3	21470.1	20751.0	19468.8	17817.6	15900.0
10°	19392.7	19480.2	19944.4	20351.5	21451.1	22090.3	21934.3	20876.6	18875.3	16360.4
12.5°	17136.5	17033.8	17364.8	17825.2	19103.6	21005.9	22425.1	22052.2	20085.2	16881.6
15°	15721.2	15679.3	15865.7	16078.8	17052.8	18970.4	21854.4	23007.2	21249.4	17498.0
17.5°	15268.4	15234.2	15291.2	15344.5	15976.1	17459.9	20496.1	23593.2	22364.2	18201.8
20°	15637.5	15591.8	15584.2	15542.3	15804.9	16816.9	19267.2	23635.0	23364.9	18841.0
22.5°	16714.2	16660.9	16474.5	16307.1	16329.9	16904.4	18719.3	23216.5	24118.2	19438.4
25°	18666.0	18578.5	18190.4	17627.3	17269.7	17513.2	18803.0	22664.8	24837.3	19906.4
27.5°	21108.7	20994.5	20496.1	19659.1	18841.0	18544.3	19408.0	22284.3	25434.6	20264.0
30°	23501.8	23353.5	22862.6	22212.0	21017.4	20081.4	20499.9	22451.7	26146.1	20636.9
32.5°	26085.3	25944.5	25293.9	24487.3	23498.0	22238.7	21995.2	23269.8	27017.4	21158.1
35°	29353.5	29132.9	28208.3	27108.7	26058.6	24784.0	24019.3	24681.3	28177.9	21953.3
37.5°	33074.6	32777.8	31780.9	30262.9	28893.2	27466.4	26484.8	26621.7	29878.6	23018.6
40°	36582.5	36312.4	35391.6	33961.1	32241.3	30510.2	29463.9	29159.5	32226.1	24316.1
42.5°	38686.5	38443.0	38055.0	37450.0	36000.4	34235.0	32914.8	32256.5	35003.6	25868.4
45°	38804.5	38591.4	39112.7	39816.5	39531.2	38355.5	36746.1	35540.0	37792.4	27325.6
47.5°	36917.3	36772.8	38355.5	40813.4	42038.5	42533.1	41049.3	38549.6	40094.3	28371.9
50°	31773.3	31720.1	34976.9	39489.3	42993.5	46193.3	45588.3	41349.9	41878.7	28912.2
52.5°	27550.1	27356.0	29254.6	35250.9	41604.8	48118.5	50024.6	44096.9	43126.7	29014.9
55°	20895.6	20724.4	23106.2	28158.8	37126.6	47433.6	53270.1	46931.4	44020.8	28752.4
57.5°	11208.7	11102.2	14111.8	18742.1	29022.5	43324.5	53856.0	49929.5	44774.1	28056.1
60°	4364.0	4345.0	5471.2	9093.3	17638.7	35247.1	50899.7	51729.2	45245.9	27200.0
62.5°	2640.5	2697.6	2880.2	4082.5	7792.1	21896.2	44085.5	49682.2	45561.7	26416.3
65°	2183.9	2187.7	2210.6	2804.1	3732.4	9161.8	33188.7	42947.8	44781.7	25019.9
67.5°	1871.9	1906.2	1993.7	2225.8	2632.9	4017.8	19107.4	33268.6	40037.2	21770.7
70°	1476.2	1521.9	1632.2	1830.1	2031.7	2514.9	7061.6	22135.9	30586.3	16409.8
72.5°	1244.1	1240.3	1297.4	1487.7	1613.2	1769.2	2716.6	12403.4	17775.7	7833.9
75°	962.6	1000.6	1072.9	1244.1	1320.2	1282.2	1472.4	4531.4	6369.1	2374.2
77.5°	753.3	783.8	848.5	1015.9	1092.0	909.3	848.5	1620.8	2046.9	852.3
80°	338.6	365.3	578.3	749.5	890.3	627.8	460.4	829.4	909.3	388.1
82.5°	60.9	102.7	338.6	395.7	456.6	407.1	239.7	429.9	445.2	156.0
85°	3.8	7.6	117.9	144.6	182.6	133.2	72.3	171.2	148.4	53.3
87.5°	0.0	0.0	0.0	3.8	3.8	19.0	22.8	30.4	22.8	19.0
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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 CATALOG NUMBER: GALN-SB7D-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
14868.9	0°	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9	14868.9
14903.1	2.5°	14629.2	14088.9	13563.9	13133.9	12882.8	12456.7	12175.2	12129.5	12011.5	12114.3
14941.2	5°	14347.7	13381.3	12403.4	11528.3	10809.3	9880.9	9188.4	8895.5	8640.6	8728.1
15040.1	7.5°	14214.5	12688.8	11166.9	9671.6	8134.5	6650.7	5547.3	5086.9	4736.9	4786.4
15150.5	10°	14035.7	11969.7	9584.1	7301.3	5242.9	3778.1	3017.2	2735.6	2579.6	2583.4
15314.1	12.5°	13898.7	11109.8	7746.4	4950.0	3192.2	2412.2	2176.3	2107.8	2062.2	2066.0
15561.4	15°	13830.2	10097.8	5931.6	3298.7	2282.8	2043.1	1986.1	1955.6	1925.2	1921.4
15835.3	17.5°	13716.1	8971.6	4341.2	2408.4	1997.5	1913.8	1864.3	1830.1	1792.0	1784.4
16071.2	20°	13544.9	7693.2	3173.1	2035.5	1871.9	1807.2	1738.8	1693.1	1647.5	1639.8
16219.6	22.5°	13229.1	6342.5	2438.8	1883.3	1780.6	1708.3	1624.6	1571.4	1525.7	1518.1
16147.3	25°	12643.1	5075.5	2054.6	1788.2	1700.7	1613.2	1521.9	1449.6	1407.8	1400.1
15991.3	27.5°	11901.2	3987.4	1864.3	1700.7	1598.0	1518.1	1415.4	1346.9	1308.8	1301.2
15785.8	30°	11026.1	3070.4	1754.0	1601.8	1476.2	1407.8	1316.4	1259.4	1236.5	1236.5
15641.3	32.5°	10082.5	2454.1	1708.3	1502.9	1369.7	1293.6	1221.3	1198.5	1190.9	1187.1
15721.2	35°	9196.0	2130.7	1685.5	1423.0	1274.6	1202.3	1171.9	1175.7	1190.9	1190.9
15968.5	37.5°	8408.5	2027.9	1674.1	1365.9	1190.9	1126.2	1145.2	1179.5	1164.2	1164.2
16402.2	40°	7697.0	2039.3	1666.5	1324.0	1122.4	1084.3	1122.4	1095.8	1057.7	1053.9
16931.1	42.5°	7152.9	2134.5	1651.3	1289.8	1080.5	1053.9	1038.7	996.8	993.0	1000.6
17479.0	45°	6757.2	2218.2	1647.5	1274.6	1034.9	985.4	966.4	924.6	1000.6	1019.7
17703.4	47.5°	6289.2	2218.2	1647.5	1221.3	958.8	939.8	909.3	863.7	939.8	958.8
17490.4	50°	5684.3	2077.4	1582.8	1160.4	897.9	886.5	833.2	776.2	760.9	772.4
16991.9	52.5°	4919.5	1822.5	1419.2	1076.7	837.0	814.2	749.5	707.7	696.3	696.3
16097.8	55°	4048.2	1525.7	1198.5	955.0	772.4	730.5	684.9	665.8	654.4	646.8
14846.1	57.5°	3291.1	1251.8	962.6	848.5	711.5	658.2	643.0	620.2	601.1	589.7
13799.8	60°	2701.4	985.4	795.2	753.3	650.6	601.1	597.3	566.9	517.4	509.8
12936.1	62.5°	2085.0	722.9	669.6	654.4	589.7	547.9	540.3	479.4	403.3	388.1
11711.0	65°	1472.4	563.1	540.3	574.5	525.1	487.0	468.0	376.7	296.8	285.4
9801.0	67.5°	1034.9	471.8	426.1	502.2	456.6	407.1	395.7	319.6	247.3	239.7
7411.6	70°	738.1	384.3	350.0	429.9	365.3	357.6	334.8	266.3	201.7	194.0
3667.8	72.5°	521.2	293.0	270.1	372.9	251.1	308.2	273.9	205.5	152.2	144.6
1248.0	75°	384.3	209.3	190.2	216.9	182.6	232.1	194.0	137.0	95.1	91.3
563.1	77.5°	281.6	133.2	114.1	106.5	106.5	144.6	106.5	57.1	41.9	38.0
285.4	80°	197.8	60.9	53.3	45.7	41.9	34.2	15.2	7.6	3.8	3.8
98.9	82.5°	117.9	26.6	26.6	19.0	11.4	0.0	0.0	0.0	0.0	0.0
38.0	85°	26.6	11.4	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	3.8	3.8	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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