

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: P957285

Luminaire Tested: **GALN-SB9C-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957285
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-SB9C-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA 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: 42145 lumens
Efficiency: N/A
Efficacy: 93.7 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

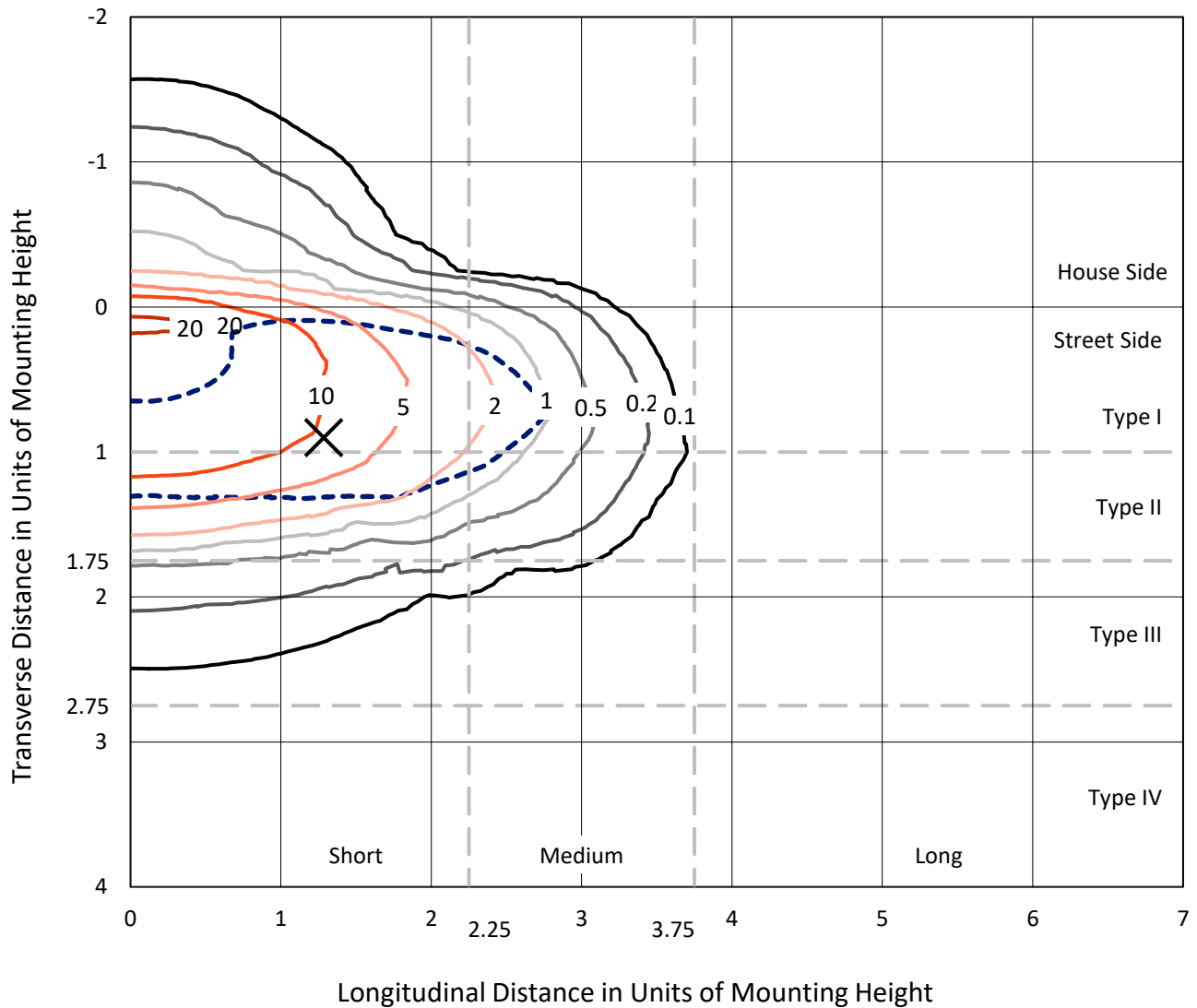
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

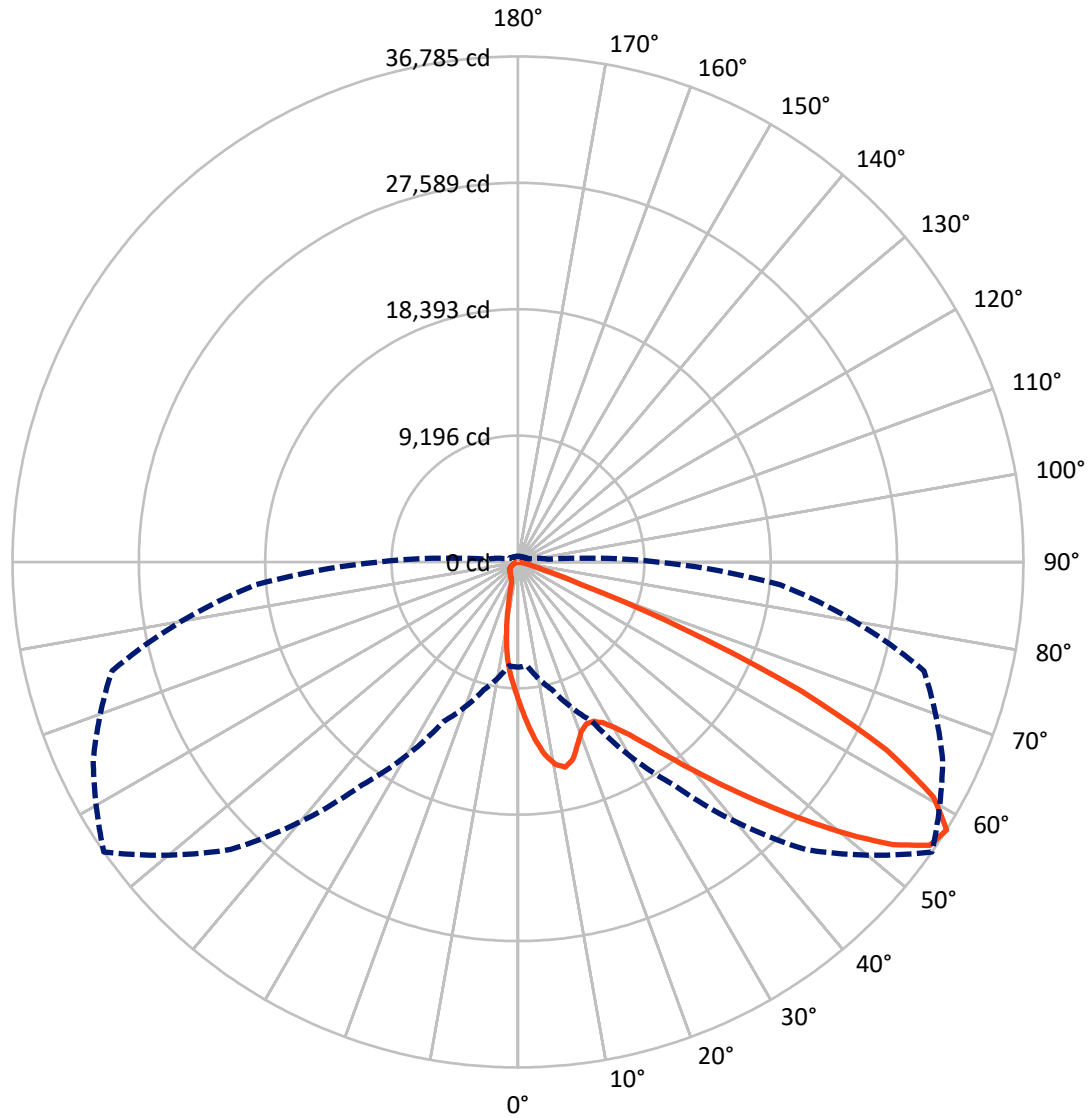
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 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	3291.4	0.0	3291.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	38853.7	0.0	38853.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	42145.0	0.0	42145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.9	2.2
10°-20°	2282.5	5.4
20°-30°	3652.0	8.7
30°-40°	6181.3	14.7
40°-50°	10148.3	24.1
50°-60°	11153.7	26.5
60°-70°	6397.8	15.2
70°-80°	1307.3	3.1
80°-90°	77.1	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°	42145.0	100.0
0°-180°	42145.0	100.0

Coefficient of Utilization



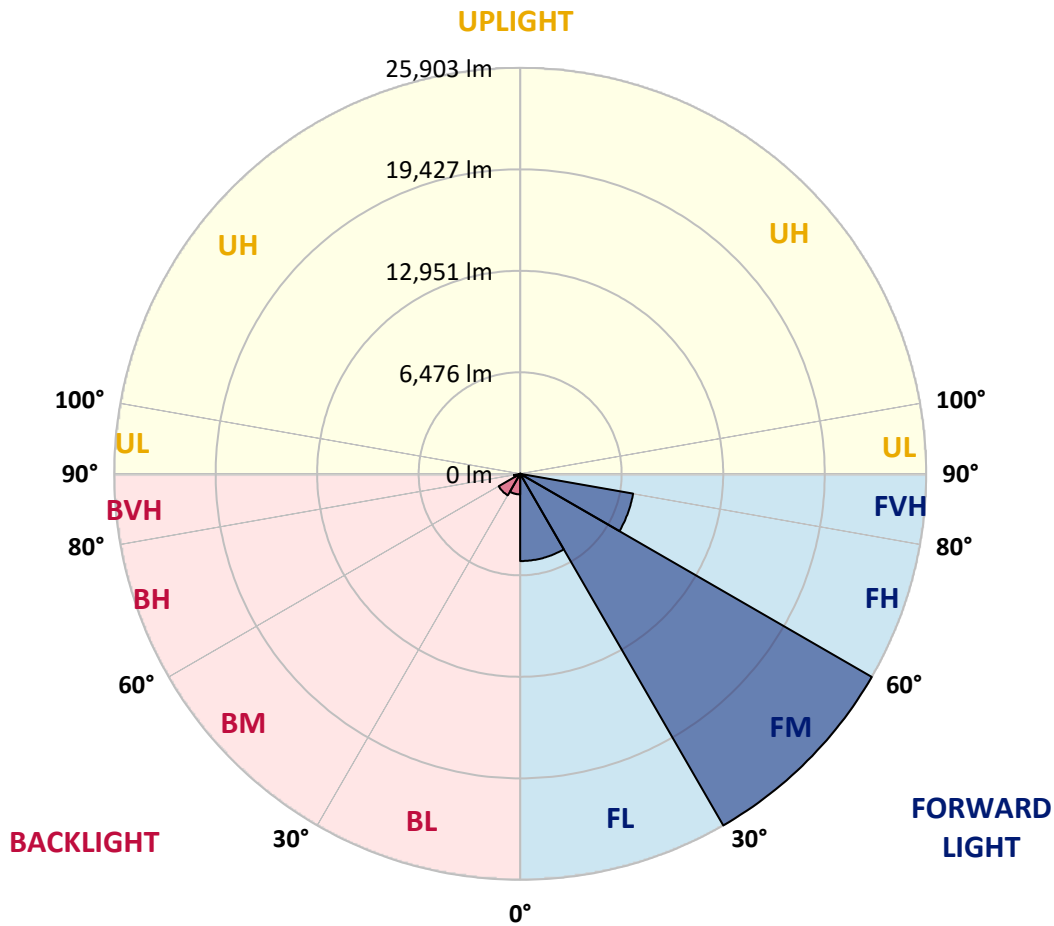
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5565.5	13.2			
FM (30°-60°)	25902.6	61.5			
FH (60°-80°)	7313.6	17.4			G3/7500
FVH (80°-90°)	71.9	0.2			G1/100
BL (0°-30°)	1314.0	3.1	B3/2500		
BM (30°-60°)	1580.7	3.8	B2/2500		
BH (60°-80°)	391.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.2	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°	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9
2.5°	12601.3	12442.8	12419.4	12388.2	12086.8	11860.7	11533.2	11174.6	10771.8	10361.2
5°	14558.2	14433.4	14410.1	14264.5	13921.5	13536.9	12954.8	12219.3	11468.3	10584.7
7.5°	14937.6	14914.2	15020.8	15015.6	14968.8	14664.7	14173.6	13297.8	12169.9	10860.2
10°	13245.8	13305.6	13622.6	13900.7	14651.7	15088.3	14981.8	14259.3	12892.4	11174.6
12.5°	11704.8	11634.6	11860.7	12175.1	13048.3	14347.7	15317.0	15062.3	13718.8	11530.6
15°	10738.0	10709.4	10836.8	10982.3	11647.6	12957.4	14927.2	15714.6	14514.0	11951.6
17.5°	10428.8	10405.4	10444.4	10480.7	10912.1	11925.7	13999.5	16114.8	15275.4	12432.4
20°	10680.9	10649.7	10644.5	10615.9	10795.2	11486.5	13160.1	16143.4	15958.9	12869.0
22.5°	11416.3	11379.9	11252.6	11138.2	11153.8	11546.2	12785.8	15857.6	16473.5	13277.0
25°	12749.5	12689.7	12424.6	12040.0	11795.7	11962.0	12843.0	15480.7	16964.6	13596.6
27.5°	14417.9	14339.9	13999.5	13427.7	12869.0	12666.3	13256.2	15220.9	17372.6	13840.9
30°	16052.5	15951.1	15615.9	15171.5	14355.5	13716.2	14002.1	15335.2	17858.6	14095.6
32.5°	17817.0	17720.9	17276.5	16725.5	16049.9	15189.7	15023.4	15893.9	18453.7	14451.6
35°	20049.3	19898.6	19267.1	18516.1	17798.8	16928.2	16405.9	16858.1	19246.3	14994.8
37.5°	22590.9	22388.2	21707.3	20670.4	19734.9	18760.4	18089.9	18183.4	20408.0	15722.4
40°	24987.0	24802.4	24173.6	23196.4	22021.8	20839.4	20124.7	19916.8	22011.4	16608.6
42.5°	26424.1	26257.7	25992.7	25579.5	24589.4	23383.5	22481.8	22032.2	23908.5	17668.9
45°	26504.6	26359.1	26715.1	27195.9	27001.0	26198.0	25098.7	24274.9	25813.4	18664.2
47.5°	25215.6	25116.9	26198.0	27876.8	28713.6	29051.4	28037.9	26330.5	27385.6	19378.9
50°	21702.1	21665.8	23890.3	26972.4	29365.8	31551.4	31138.2	28243.2	28604.4	19747.9
52.5°	18817.5	18685.0	19981.8	24077.4	28417.3	32866.4	34168.3	30119.5	29456.8	19818.1
55°	14272.3	14155.4	15782.2	19233.3	25358.6	32398.6	36385.1	32055.6	30067.5	19638.7
57.5°	7655.9	7583.1	9638.8	12801.4	19823.2	29591.9	36785.3	34103.4	30582.1	19163.2
60°	2980.8	2967.8	3737.0	6211.0	12047.8	24074.8	34766.0	35332.6	30904.3	18578.4
62.5°	1803.5	1842.5	1967.3	2788.5	5322.2	14955.8	30111.7	33934.4	31120.0	18043.1
65°	1491.7	1494.3	1509.9	1915.3	2549.4	6257.8	22668.9	29334.7	30587.3	17089.4
67.5°	1278.6	1302.0	1361.7	1520.3	1798.3	2744.3	13050.9	22723.5	27346.6	14870.0
70°	1008.3	1039.5	1114.9	1250.0	1387.7	1717.8	4823.3	15119.5	20891.3	11208.4
72.5°	849.8	847.2	886.2	1016.1	1101.9	1208.4	1855.5	8471.9	12141.3	5350.8
75°	657.5	683.5	732.8	849.8	901.8	875.8	1005.7	3095.1	4350.3	1621.6
77.5°	514.6	535.3	579.5	693.9	745.8	621.1	579.5	1107.1	1398.1	582.1
80°	231.3	249.5	395.0	512.0	608.1	428.8	314.4	566.5	621.1	265.1
82.5°	41.6	70.2	231.3	270.3	311.8	278.1	163.7	293.7	304.1	106.5
85°	2.6	5.2	80.6	98.8	124.7	91.0	49.4	116.9	101.4	36.4
87.5°	0.0	0.0	0.0	2.6	2.6	13.0	15.6	20.8	15.6	13.0
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°
10155.9	0°	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9	10155.9
10179.3	2.5°	9992.2	9623.2	9264.5	8970.9	8799.4	8508.3	8316.0	8284.8	8204.2	8274.4
10205.3	5°	9799.9	9139.8	8471.9	7874.2	7383.0	6748.9	6276.0	6075.9	5901.8	5961.5
10272.8	7.5°	9708.9	8666.8	7627.3	6606.0	5556.1	4542.6	3789.0	3474.5	3235.4	3269.2
10348.2	10°	9586.8	8175.7	6546.2	4987.0	3581.1	2580.6	2060.8	1868.5	1762.0	1764.5
10460.0	12.5°	9493.2	7588.3	5291.1	3381.0	2180.3	1647.6	1486.5	1439.7	1408.5	1411.1
10628.9	15°	9446.4	6897.1	4051.4	2253.1	1559.2	1395.5	1356.5	1335.8	1315.0	1312.4
10816.0	17.5°	9368.5	6127.8	2965.2	1645.0	1364.3	1307.2	1273.4	1250.0	1224.0	1218.8
10977.1	20°	9251.5	5254.7	2167.4	1390.3	1278.6	1234.4	1187.6	1156.4	1125.3	1120.1
11078.5	22.5°	9035.8	4332.1	1665.8	1286.4	1216.2	1166.8	1109.7	1073.3	1042.1	1036.9
11029.1	25°	8635.6	3466.7	1403.3	1221.4	1161.6	1101.9	1039.5	990.1	961.5	956.3
10922.5	27.5°	8128.9	2723.5	1273.4	1161.6	1091.5	1036.9	966.7	920.0	894.0	888.8
10782.2	30°	7531.2	2097.2	1198.0	1094.1	1008.3	961.5	899.2	860.2	844.6	844.6
10683.5	32.5°	6886.7	1676.2	1166.8	1026.5	935.5	883.6	834.2	818.6	813.4	810.8
10738.0	35°	6281.2	1455.3	1151.2	971.9	870.6	821.2	800.4	803.0	813.4	813.4
10906.9	37.5°	5743.2	1385.1	1143.4	933.0	813.4	769.2	782.2	805.6	795.2	795.2
11203.2	40°	5257.3	1392.9	1138.3	904.4	766.6	740.6	766.6	748.4	722.5	719.9
11564.4	42.5°	4885.6	1457.9	1127.9	881.0	738.0	719.9	709.5	680.9	678.3	683.5
11938.6	45°	4615.4	1515.1	1125.3	870.6	706.9	673.1	660.1	631.5	683.5	696.5
12092.0	47.5°	4295.7	1515.1	1125.3	834.2	654.9	641.9	621.1	589.9	641.9	654.9
11946.4	50°	3882.5	1418.9	1081.1	792.6	613.3	605.5	569.1	530.1	519.7	527.5
11606.0	52.5°	3360.2	1244.8	969.3	735.4	571.7	556.1	512.0	483.4	475.6	475.6
10995.3	55°	2765.1	1042.1	818.6	652.3	527.5	499.0	467.8	454.8	447.0	441.8
10140.3	57.5°	2247.9	855.0	657.5	579.5	486.0	449.6	439.2	423.6	410.6	402.8
9425.7	60°	1845.1	673.1	543.1	514.6	444.4	410.6	408.0	387.2	353.4	348.2
8835.7	62.5°	1424.1	493.8	457.4	447.0	402.8	374.2	369.0	327.4	275.5	265.1
7998.9	65°	1005.7	384.6	369.0	392.4	358.6	332.6	319.6	257.3	202.7	194.9
6694.4	67.5°	706.9	322.2	291.1	343.0	311.8	278.1	270.3	218.3	168.9	163.7
5062.4	70°	504.2	262.5	239.1	293.7	249.5	244.3	228.7	181.9	137.7	132.5
2505.2	72.5°	356.0	200.1	184.5	254.7	171.5	210.5	187.1	140.3	103.9	98.8
852.4	75°	262.5	142.9	129.9	148.1	124.7	158.5	132.5	93.6	65.0	62.4
384.6	77.5°	192.3	91.0	78.0	72.8	72.8	98.8	72.8	39.0	28.6	26.0
194.9	80°	135.1	41.6	36.4	31.2	28.6	23.4	10.4	5.2	2.6	2.6
67.6	82.5°	80.6	18.2	18.2	13.0	7.8	0.0	0.0	0.0	0.0	0.0
26.0	85°	18.2	7.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	2.6	2.6	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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