

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: P953841

Luminaire Tested: **GALN-SB7B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953841
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-SB7B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 36124 lumens
Efficiency: N/A
Efficacy: 140.7 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

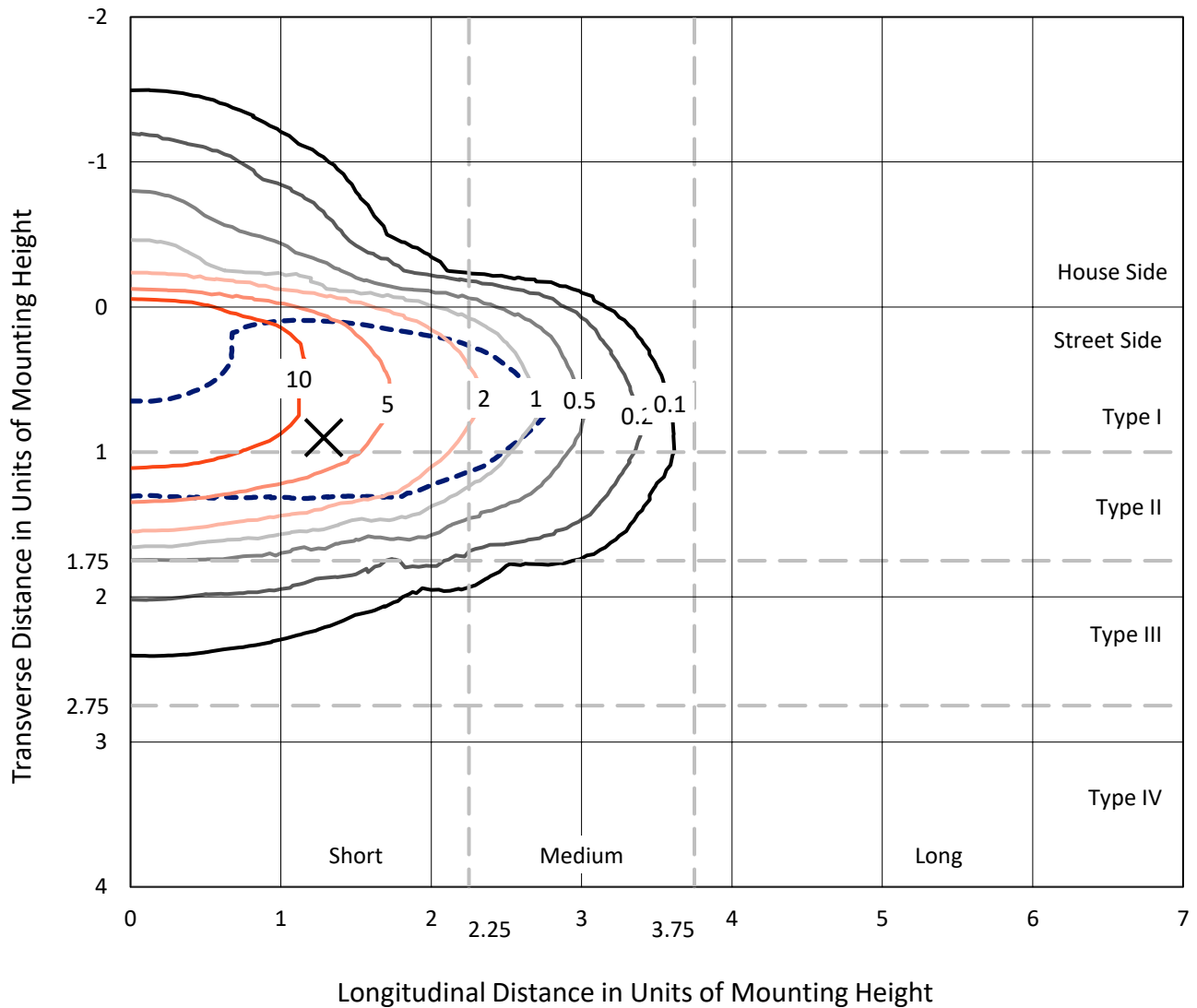
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

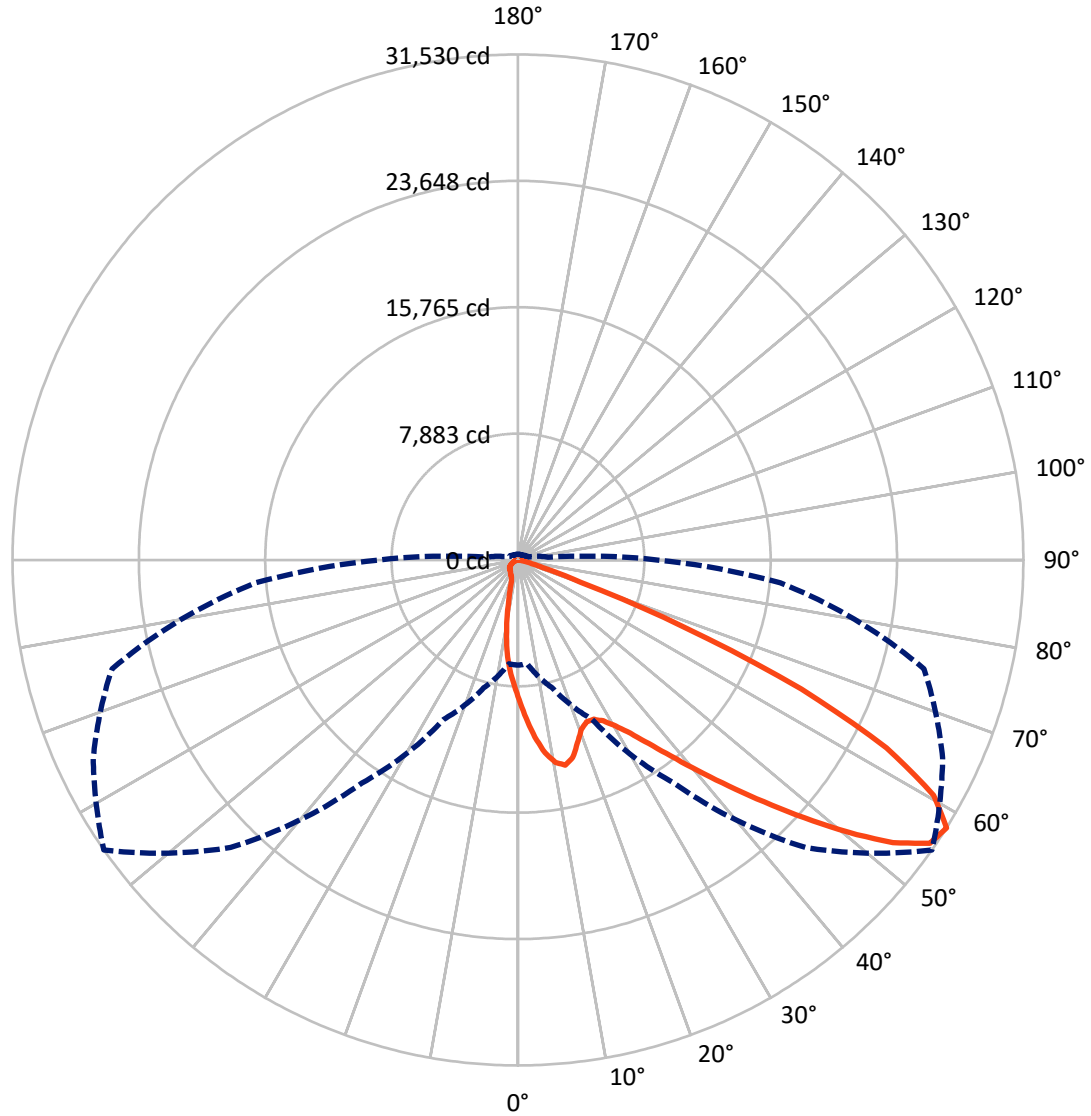
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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	2821.1	0.0	2821.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33302.9	0.0	33302.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	36124.0	0.0	36124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.9	2.2
10°-20°	1956.4	5.4
20°-30°	3130.3	8.7
30°-40°	5298.2	14.7
40°-50°	8698.5	24.1
50°-60°	9560.3	26.5
60°-70°	5483.8	15.2
70°-80°	1120.5	3.1
80°-90°	66.1	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°	36124.0	100.0
0°-180°	36124.0	100.0

Coefficient of Utilization



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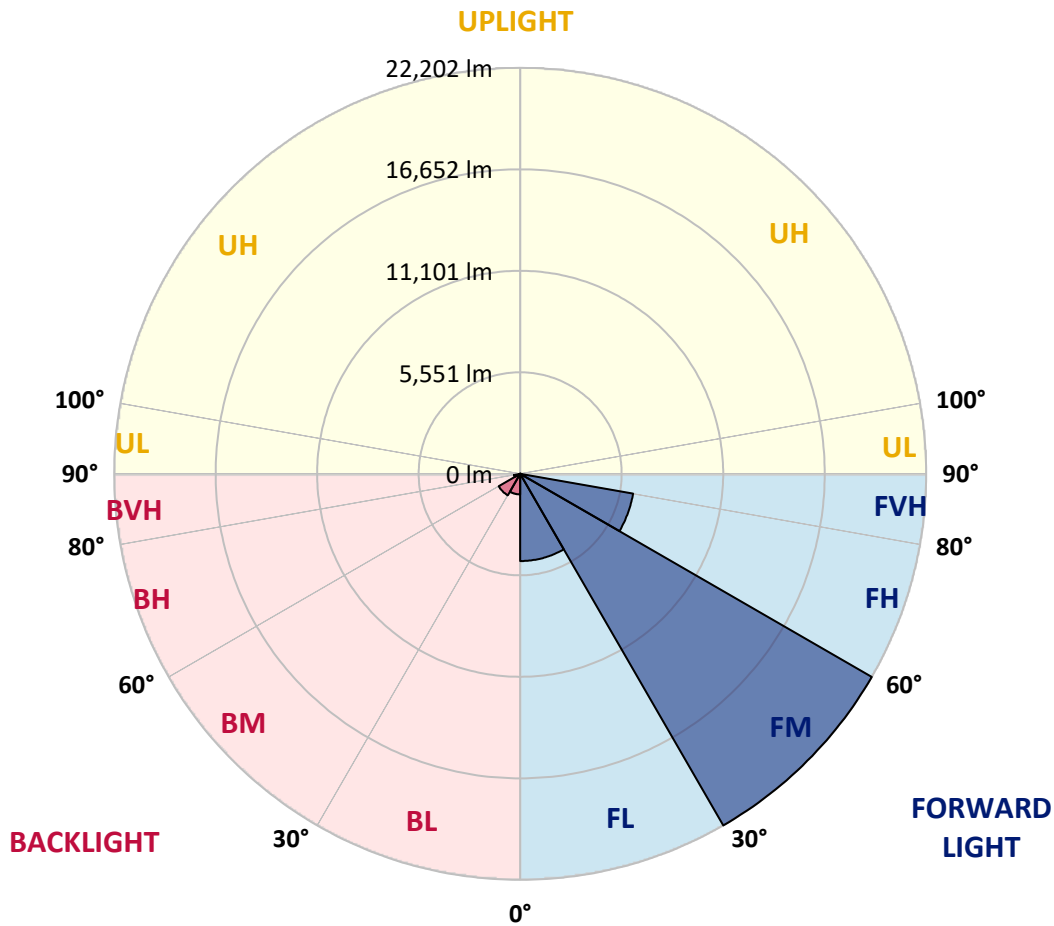
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4770.4	13.2			
FM (30°-60°)	22202.1	61.5			
FH (60°-80°)	6268.8	17.4			G3/7500
FVH (80°-90°)	61.6	0.2			G1/100
BL (0°-30°)	1126.3	3.1	B3/2500		
BM (30°-60°)	1354.9	3.8	B2/2500		
BH (60°-80°)	335.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	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°	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0
2.5°	10801.1	10665.2	10645.1	10618.4	10360.0	10166.2	9885.6	9578.2	9232.9	8881.0
5°	12478.3	12371.4	12351.4	12226.6	11932.6	11602.9	11104.0	10473.6	9829.9	9072.5
7.5°	12803.6	12783.5	12874.8	12870.4	12830.3	12569.7	12148.7	11398.0	10431.3	9308.6
10°	11353.5	11404.7	11676.5	11914.8	12558.5	12932.8	12841.4	12222.2	11050.5	9578.2
12.5°	10032.6	9972.4	10166.2	10435.7	11184.2	12297.9	13128.8	12910.5	11758.9	9883.3
15°	9203.9	9179.4	9288.6	9413.3	9983.6	11106.2	12794.6	13469.6	12440.5	10244.2
17.5°	8938.9	8918.8	8952.2	8983.4	9353.2	10221.9	11999.4	13812.6	13093.1	10656.3
20°	9154.9	9128.2	9123.8	9099.3	9253.0	9845.5	11280.0	13837.1	13679.0	11030.5
22.5°	9785.3	9754.1	9645.0	9547.0	9560.3	9896.7	10959.2	13592.1	14120.0	11380.2
25°	10928.0	10876.8	10649.6	10319.9	10110.5	10253.1	11008.2	13269.1	14541.0	11654.2
27.5°	12358.1	12291.2	11999.4	11509.4	11030.5	10856.7	11362.4	13046.4	14890.7	11863.6
30°	13759.1	13672.3	13384.9	13004.0	12304.6	11756.6	12001.7	13144.4	15307.2	12081.9
32.5°	15271.6	15189.2	14808.3	14336.1	13756.9	13019.6	12877.1	13623.3	15817.3	12387.0
35°	17185.0	17055.8	16514.5	15870.8	15256.0	14509.8	14062.1	14449.7	16496.7	12852.6
37.5°	19363.5	19189.7	18606.1	17717.4	16915.5	16080.2	15505.5	15585.7	17492.4	13476.3
40°	21417.2	21259.1	20720.0	19882.5	18875.7	17862.2	17249.6	17071.4	18866.8	14235.8
42.5°	22649.0	22506.5	22279.3	21925.1	21076.4	20042.9	19269.9	18884.6	20492.8	15144.6
45°	22718.1	22593.3	22898.5	23310.6	23143.5	22455.2	21513.0	20806.9	22125.6	15997.8
47.5°	21613.2	21528.6	22455.2	23894.2	24611.4	24901.0	24032.3	22568.8	23473.2	16610.3
50°	18601.7	18570.5	20477.2	23119.0	25170.5	27043.8	26689.7	24208.3	24517.9	16926.6
52.5°	16129.2	16015.6	17127.1	20637.6	24357.5	28170.9	29286.9	25816.5	25248.5	16986.8
55°	12233.3	12133.1	13527.5	16485.6	21735.8	27770.0	31187.0	27476.0	25771.9	16833.1
57.5°	6562.2	6499.8	8261.7	10972.6	16991.2	25364.3	31530.0	29231.2	26213.0	16425.4
60°	2554.9	2543.8	3203.1	5323.7	10326.6	20635.4	29799.2	30284.8	26489.2	15924.3
62.5°	1545.9	1579.3	1686.2	2390.1	4561.9	12819.2	25809.8	29086.4	26674.1	15465.4
65°	1278.6	1280.8	1294.2	1641.7	2185.2	5363.8	19430.3	25143.8	26217.4	14647.9
67.5°	1095.9	1116.0	1167.2	1303.1	1541.4	2352.2	11186.4	19477.1	23439.8	12745.6
70°	864.3	891.0	955.6	1071.4	1189.5	1472.4	4134.2	12959.5	17906.7	9607.1
72.5°	728.4	726.2	759.6	870.9	944.5	1035.8	1590.4	7261.6	10406.8	4586.4
75°	563.6	585.8	628.1	728.4	772.9	750.7	862.0	2652.9	3728.8	1389.9
77.5°	441.0	458.9	496.7	594.7	639.3	532.4	496.7	948.9	1198.4	499.0
80°	198.2	213.8	338.6	438.8	521.2	367.5	269.5	485.6	532.4	227.2
82.5°	35.6	60.1	198.2	231.7	267.3	238.3	140.3	251.7	260.6	91.3
85°	2.2	4.5	69.1	84.6	106.9	78.0	42.3	100.2	86.9	31.2
87.5°	0.0	0.0	0.0	2.2	2.2	11.1	13.4	17.8	13.4	11.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8705.0	0°	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0	8705.0
8725.0	2.5°	8564.7	8248.4	7941.0	7689.3	7542.2	7292.8	7127.9	7101.2	7032.2	7092.3
8747.3	5°	8399.8	7834.0	7261.6	6749.3	6328.3	5784.8	5379.4	5207.8	5058.6	5109.8
8805.2	7.5°	8321.9	7428.6	6537.7	5662.3	4762.4	3893.6	3247.7	2978.1	2773.2	2802.2
8869.8	10°	8217.2	7007.7	5611.0	4274.5	3069.5	2211.9	1766.4	1601.6	1510.2	1512.5
8965.6	12.5°	8137.0	6504.2	4535.2	2898.0	1868.9	1412.2	1274.1	1234.0	1207.3	1209.5
9110.4	15°	8096.9	5911.7	3472.6	1931.2	1336.5	1196.2	1162.7	1144.9	1127.1	1124.9
9270.8	17.5°	8030.1	5252.4	2541.6	1410.0	1169.4	1120.4	1091.5	1071.4	1049.1	1044.7
9408.9	20°	7929.8	4504.0	1857.7	1191.7	1095.9	1058.1	1018.0	991.2	964.5	960.0
9495.7	22.5°	7744.9	3713.2	1427.8	1102.6	1042.5	1000.1	951.1	919.9	893.2	888.8
9453.4	25°	7401.9	2971.5	1202.8	1046.9	995.7	944.5	891.0	848.7	824.2	819.7
9362.1	27.5°	6967.6	2334.4	1091.5	995.7	935.5	888.8	828.6	788.5	766.3	761.8
9241.8	30°	6455.2	1797.6	1026.9	937.8	864.3	824.2	770.7	737.3	723.9	723.9
9157.2	32.5°	5902.8	1436.7	1000.1	879.9	801.9	757.3	715.0	701.7	697.2	695.0
9203.9	35°	5383.8	1247.4	986.8	833.1	746.2	703.9	686.1	688.3	697.2	697.2
9348.7	37.5°	4922.7	1187.2	980.1	799.7	697.2	659.3	670.5	690.5	681.6	681.6
9602.7	40°	4506.2	1193.9	975.6	775.2	657.1	634.8	657.1	641.5	619.2	617.0
9912.3	42.5°	4187.7	1249.6	966.7	755.1	632.6	617.0	608.1	583.6	581.4	585.8
10233.0	45°	3956.0	1298.6	964.5	746.2	605.9	576.9	565.8	541.3	585.8	597.0
10364.5	47.5°	3682.0	1298.6	964.5	715.0	561.3	550.2	532.4	505.6	550.2	561.3
10239.7	50°	3327.9	1216.2	926.6	679.4	525.7	519.0	487.8	454.4	445.5	452.2
9947.9	52.5°	2880.1	1067.0	830.9	630.4	490.0	476.7	438.8	414.3	407.6	407.6
9424.5	55°	2370.0	893.2	701.7	559.1	452.2	427.7	400.9	389.8	383.1	378.7
8691.6	57.5°	1926.8	732.8	563.6	496.7	416.5	385.4	376.4	363.1	351.9	345.3
8079.1	60°	1581.5	576.9	465.5	441.0	380.9	351.9	349.7	331.9	302.9	298.5
7573.4	62.5°	1220.7	423.2	392.0	383.1	345.3	320.8	316.3	280.7	236.1	227.2
6856.2	65°	862.0	329.7	316.3	336.3	307.4	285.1	274.0	220.5	173.7	167.1
5738.0	67.5°	605.9	276.2	249.5	294.0	267.3	238.3	231.7	187.1	144.8	140.3
4339.1	70°	432.1	225.0	204.9	251.7	213.8	209.4	196.0	155.9	118.1	113.6
2147.3	72.5°	305.2	171.5	158.2	218.3	147.0	180.4	160.4	120.3	89.1	84.6
730.6	75°	225.0	122.5	111.4	127.0	106.9	135.9	113.6	80.2	55.7	53.5
329.7	77.5°	164.8	78.0	66.8	62.4	62.4	84.6	62.4	33.4	24.5	22.3
167.1	80°	115.8	35.6	31.2	26.7	24.5	20.0	8.9	4.5	2.2	2.2
57.9	82.5°	69.1	15.6	15.6	11.1	6.7	0.0	0.0	0.0	0.0	0.0
22.3	85°	15.6	6.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
8.9	87.5°	2.2	2.2	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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