

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: P952896

Luminaire Tested: **GALN-SB6C-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952896  
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-SB6C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

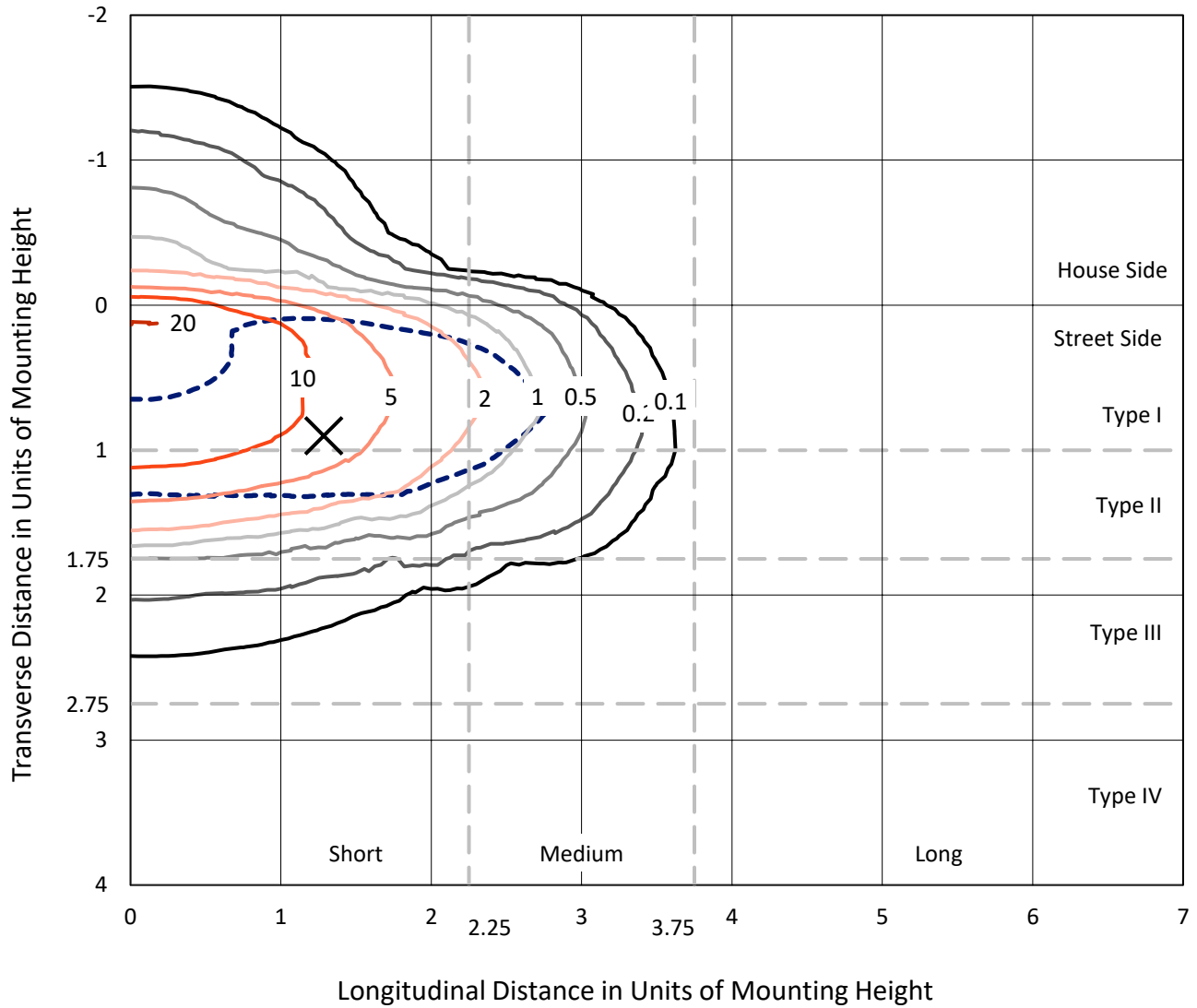
Lumens per Lamp: N/A  
Luminaire Lumens: 37038 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

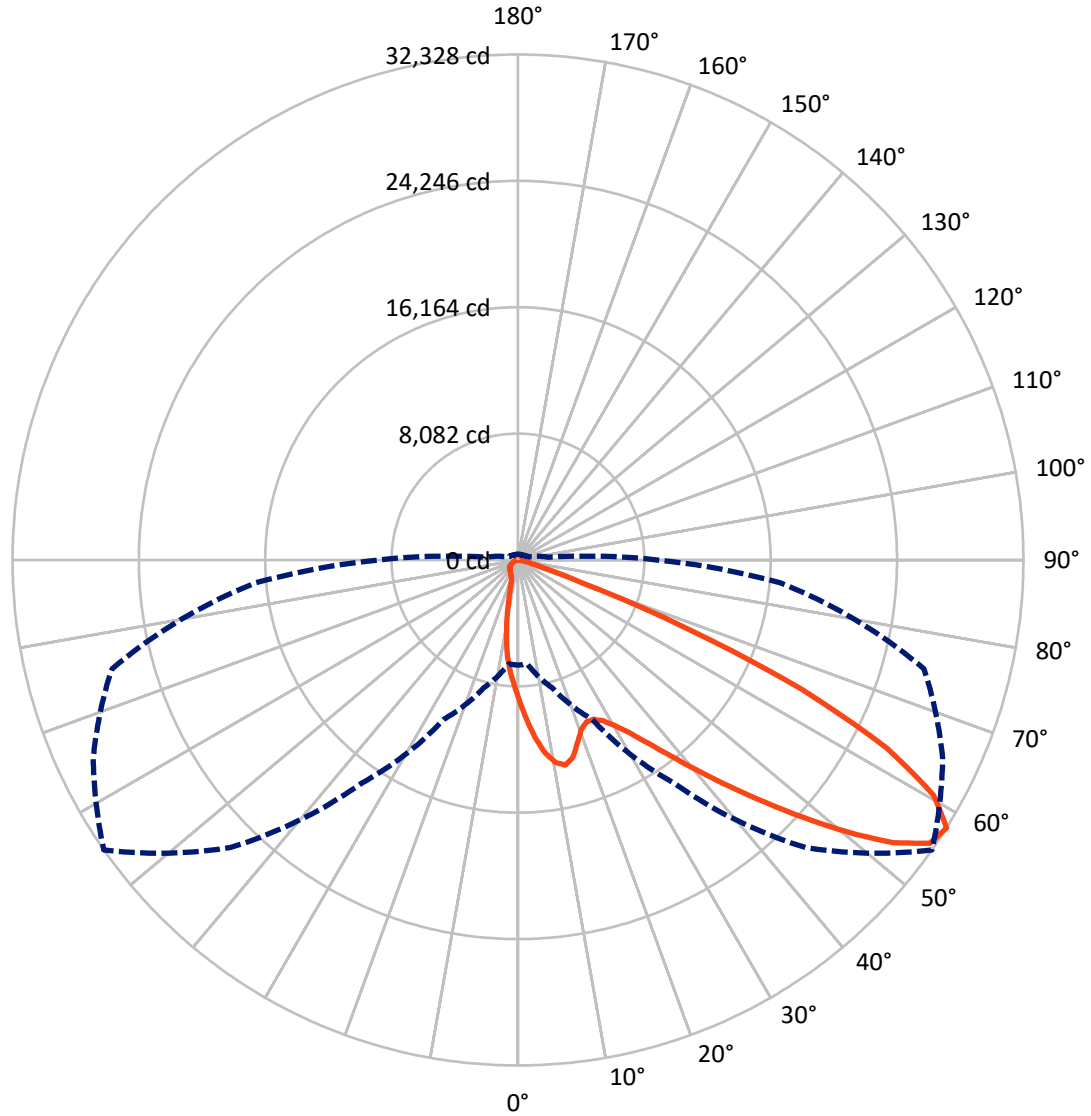
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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
<b>House Side</b>	Lumens	2892.5	0.0	2892.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	34145.5	0.0	34145.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	37038.0	0.0	37038.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	830.4	2.2
10°-20°	2005.9	5.4
20°-30°	3209.5	8.7
30°-40°	5432.2	14.7
40°-50°	8918.6	24.1
50°-60°	9802.2	26.5
60°-70°	5622.5	15.2
70°-80°	1148.8	3.1
80°-90°	67.8	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°	37038.0	100.0
0°-180°	37038.0	100.0

**Coefficient of Utilization**



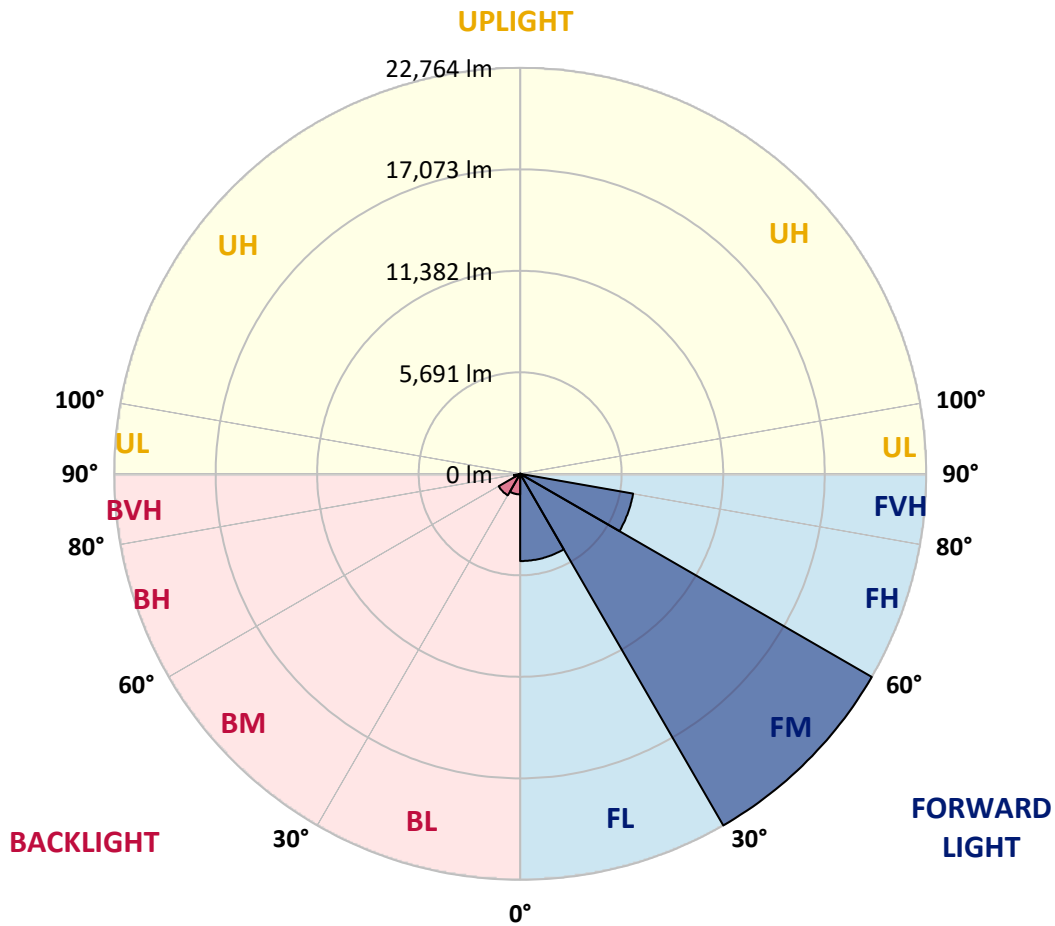
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4891.1	13.2			
FM (30°-60°)	22763.8	61.5			
FH (60°-80°)	6427.4	17.4			G3/7500
FVH (80°-90°)	63.2	0.2			G1/100
BL (0°-30°)	1154.8	3.1	B3/2500		
BM (30°-60°)	1389.2	3.8	B2/2500		
BH (60°-80°)	344.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2
2.5°	11074.3	10935.0	10914.5	10887.1	10622.1	10423.4	10135.7	9820.5	9466.5	9105.7
5°	12794.1	12684.4	12663.9	12536.0	12234.5	11896.5	11384.9	10738.6	10078.6	9302.1
7.5°	13127.5	13107.0	13200.6	13196.0	13154.9	12887.7	12456.1	11686.4	10695.2	9544.2
10°	11640.7	11693.3	11971.9	12216.3	12876.3	13260.0	13166.3	12531.4	11330.1	9820.5
12.5°	10286.4	10224.7	10423.4	10699.8	11467.2	12609.1	13461.0	13237.1	12056.4	10133.4
15°	9436.8	9411.7	9523.6	9651.5	10236.2	11387.2	13118.4	13810.4	12755.2	10503.4
17.5°	9165.0	9144.5	9178.8	9210.7	9589.8	10480.5	12303.0	14162.1	13424.4	10925.9
20°	9386.6	9359.2	9354.6	9329.5	9487.1	10094.6	11565.4	14187.2	14025.1	11309.6
22.5°	10032.9	10000.9	9889.0	9788.5	9802.2	10147.1	11236.5	13936.0	14477.3	11668.1
25°	11204.5	11152.0	10919.0	10581.0	10366.3	10512.5	11286.7	13604.8	14908.9	11949.0
27.5°	12670.7	12602.2	12303.0	11800.6	11309.6	11131.4	11649.9	13376.4	15267.5	12163.7
30°	14107.3	14018.2	13723.6	13333.1	12615.9	12054.1	12305.3	13476.9	15694.5	12387.5
32.5°	15658.0	15573.5	15183.0	14698.8	14105.0	13349.0	13202.9	13968.0	16217.5	12700.4
35°	17619.8	17487.4	16932.4	16272.4	15642.0	14876.9	14417.9	14815.3	16914.1	13177.8
37.5°	19853.4	19675.3	19076.9	18165.7	17343.5	16487.0	15897.8	15980.0	17935.0	13817.2
40°	21959.1	21797.0	21244.3	20385.6	19353.3	18314.1	17686.1	17503.3	19344.1	14596.0
42.5°	23222.1	23075.9	22843.0	22479.8	21609.7	20550.0	19757.5	19362.4	21011.3	15527.8
45°	23292.9	23165.0	23477.9	23900.4	23729.1	23023.4	22057.3	21333.3	22685.4	16402.5
47.5°	22160.1	22073.3	23023.4	24498.7	25234.1	25531.0	24640.3	23139.9	24067.1	17030.6
50°	19072.3	19040.4	20995.3	23704.0	25807.4	27728.1	27365.0	24820.8	25138.2	17354.9
52.5°	16537.3	16420.8	17560.4	21159.8	24973.8	28883.7	30027.9	26469.7	25887.3	17416.6
55°	12542.8	12440.1	13869.8	16902.7	22285.7	28472.6	31976.0	28171.2	26424.0	17259.0
57.5°	6728.2	6664.2	8470.8	11250.2	17421.1	26006.1	32327.7	29970.8	26876.2	16841.0
60°	2619.6	2608.1	3284.2	5458.4	10587.9	21157.5	30553.2	31051.1	27159.4	16327.2
62.5°	1585.0	1619.2	1728.9	2450.6	4677.3	13143.5	26462.8	29822.4	27349.0	15856.7
65°	1310.9	1313.2	1326.9	1683.2	2240.4	5499.5	19921.9	25780.0	26880.8	15018.5
67.5°	1123.6	1144.2	1196.7	1336.0	1580.4	2411.7	11469.4	19969.9	24032.8	13068.1
70°	886.1	913.5	979.8	1098.5	1219.6	1509.6	4238.8	13287.4	18359.8	9850.2
72.5°	746.8	744.5	778.8	893.0	968.3	1062.0	1630.7	7445.3	10670.1	4702.4
75°	577.8	600.6	644.0	746.8	792.5	769.7	883.8	2720.1	3823.1	1425.1
77.5°	452.2	470.5	509.3	609.8	655.5	545.8	509.3	972.9	1228.7	511.6
80°	203.3	219.2	347.1	449.9	534.4	376.8	276.3	497.9	545.8	233.0
82.5°	36.5	61.7	203.3	237.5	274.1	244.4	143.9	258.1	267.2	93.6
85°	2.3	4.6	70.8	86.8	109.6	79.9	43.4	102.8	89.1	32.0
87.5°	0.0	0.0	0.0	2.3	2.3	11.4	13.7	18.3	13.7	11.4
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°
8925.2	0°	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2	8925.2
8945.8	2.5°	8781.4	8457.1	8141.9	7883.8	7733.1	7477.3	7308.3	7280.9	7210.1	7271.7
8968.6	5°	8612.4	8032.3	7445.3	6920.0	6488.4	5931.1	5515.5	5339.6	5186.6	5239.1
9028.0	7.5°	8532.4	7616.6	6703.1	5805.5	4882.8	3992.2	3329.8	3053.5	2843.4	2873.1
9094.2	10°	8425.1	7185.0	5753.0	4382.7	3147.1	2267.9	1811.1	1642.1	1548.4	1550.7
9192.5	12.5°	8342.9	6668.8	4649.9	2971.3	1916.1	1448.0	1306.4	1265.2	1237.8	1240.1
9340.9	15°	8301.8	6061.3	3560.5	1980.1	1370.3	1226.4	1192.2	1173.9	1155.6	1153.3
9505.3	17.5°	8233.2	5385.3	2605.9	1445.7	1199.0	1148.8	1119.1	1098.5	1075.7	1071.1
9646.9	20°	8130.5	4617.9	1904.7	1221.9	1123.6	1084.8	1043.7	1016.3	988.9	984.3
9736.0	22.5°	7940.9	3807.2	1463.9	1130.5	1068.8	1025.4	975.2	943.2	915.8	911.3
9692.6	25°	7589.2	3046.6	1233.3	1073.4	1020.9	968.3	913.5	870.1	845.0	840.5
9599.0	27.5°	7143.9	2393.5	1119.1	1020.9	959.2	911.3	849.6	808.5	785.6	781.1
9475.7	30°	6618.6	1843.1	1052.9	961.5	886.1	845.0	790.2	756.0	742.2	742.2
9388.9	32.5°	6052.2	1473.1	1025.4	902.1	822.2	776.5	733.1	719.4	714.8	712.6
9436.8	35°	5520.0	1279.0	1011.7	854.2	765.1	721.7	703.4	705.7	714.8	714.8
9585.3	37.5°	5047.3	1217.3	1004.9	819.9	714.8	676.0	687.4	708.0	698.9	698.9
9845.6	40°	4620.2	1224.1	1000.3	794.8	673.7	650.9	673.7	657.7	634.9	632.6
10163.1	42.5°	4293.6	1281.2	991.2	774.2	648.6	632.6	623.5	598.4	596.1	600.6
10492.0	45°	4056.1	1331.5	988.9	765.1	621.2	591.5	580.1	555.0	600.6	612.1
10626.7	47.5°	3775.2	1331.5	988.9	733.1	575.5	564.1	545.8	518.4	564.1	575.5
10498.8	50°	3412.1	1247.0	950.1	696.6	539.0	532.1	500.2	465.9	456.8	463.6
10199.6	52.5°	2953.0	1094.0	851.9	646.3	502.4	488.7	449.9	424.8	417.9	417.9
9662.9	55°	2430.0	915.8	719.4	573.2	463.6	438.5	411.1	399.7	392.8	388.3
8911.5	57.5°	1975.5	751.4	577.8	509.3	427.1	395.1	386.0	372.3	360.8	354.0
8283.5	60°	1621.5	591.5	477.3	452.2	390.5	360.8	358.6	340.3	310.6	306.0
7765.1	62.5°	1251.5	433.9	402.0	392.8	354.0	328.9	324.3	287.8	242.1	233.0
7029.7	65°	883.8	338.0	324.3	344.9	315.2	292.3	280.9	226.1	178.1	171.3
5883.2	67.5°	621.2	283.2	255.8	301.5	274.1	244.4	237.5	191.8	148.4	143.9
4448.9	70°	443.1	230.7	210.1	258.1	219.2	214.7	201.0	159.9	121.0	116.5
2201.6	72.5°	312.9	175.9	162.2	223.8	150.7	185.0	164.4	123.3	91.4	86.8
749.1	75°	230.7	125.6	114.2	130.2	109.6	139.3	116.5	82.2	57.1	54.8
338.0	77.5°	169.0	79.9	68.5	63.9	63.9	86.8	63.9	34.3	25.1	22.8
171.3	80°	118.8	36.5	32.0	27.4	25.1	20.6	9.1	4.6	2.3	2.3
59.4	82.5°	70.8	16.0	16.0	11.4	6.9	0.0	0.0	0.0	0.0	0.0
22.8	85°	16.0	6.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	2.3	2.3	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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