

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: P952833

Luminaire Tested: **GALN-SB6C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952833
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 33671 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

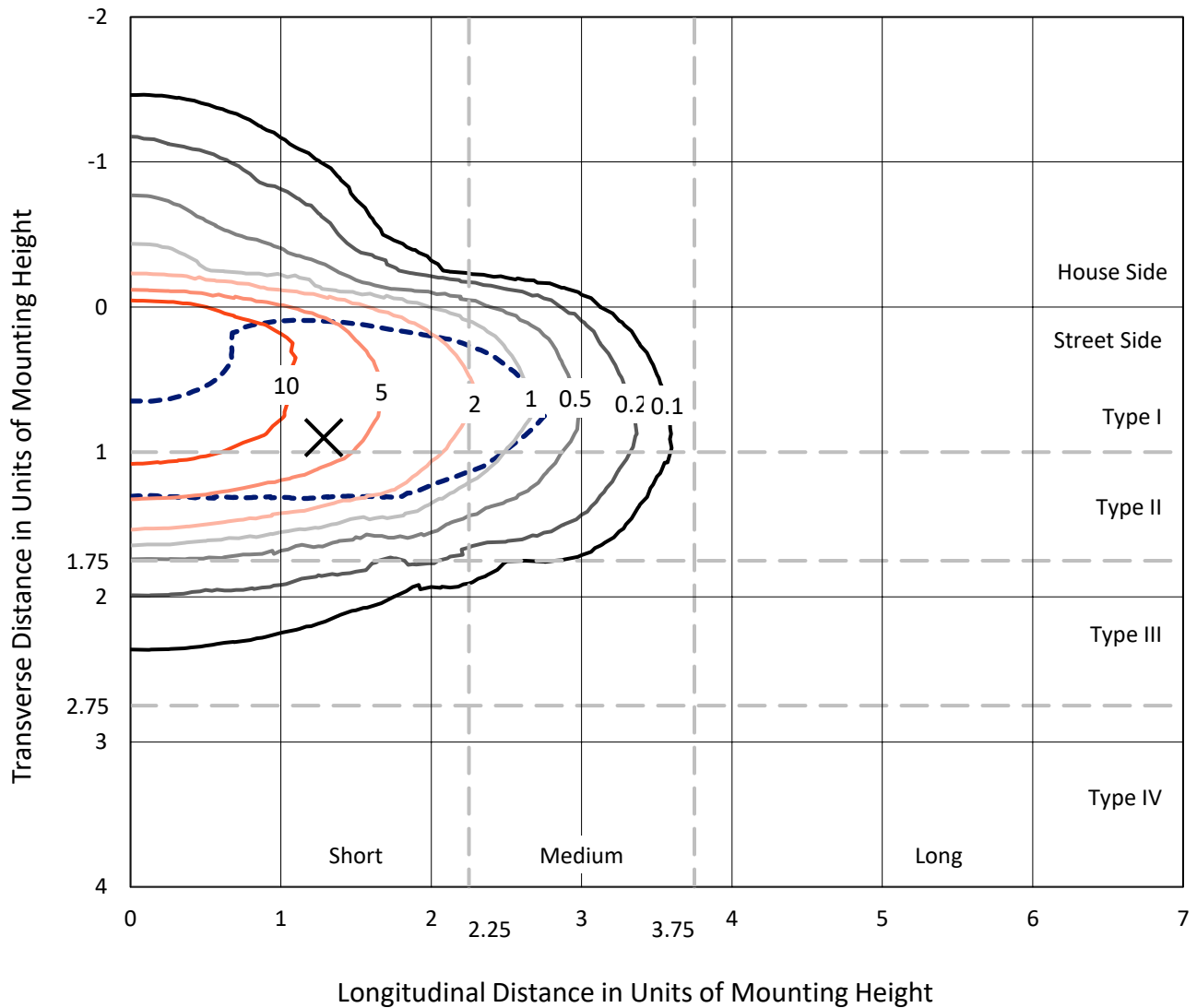
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

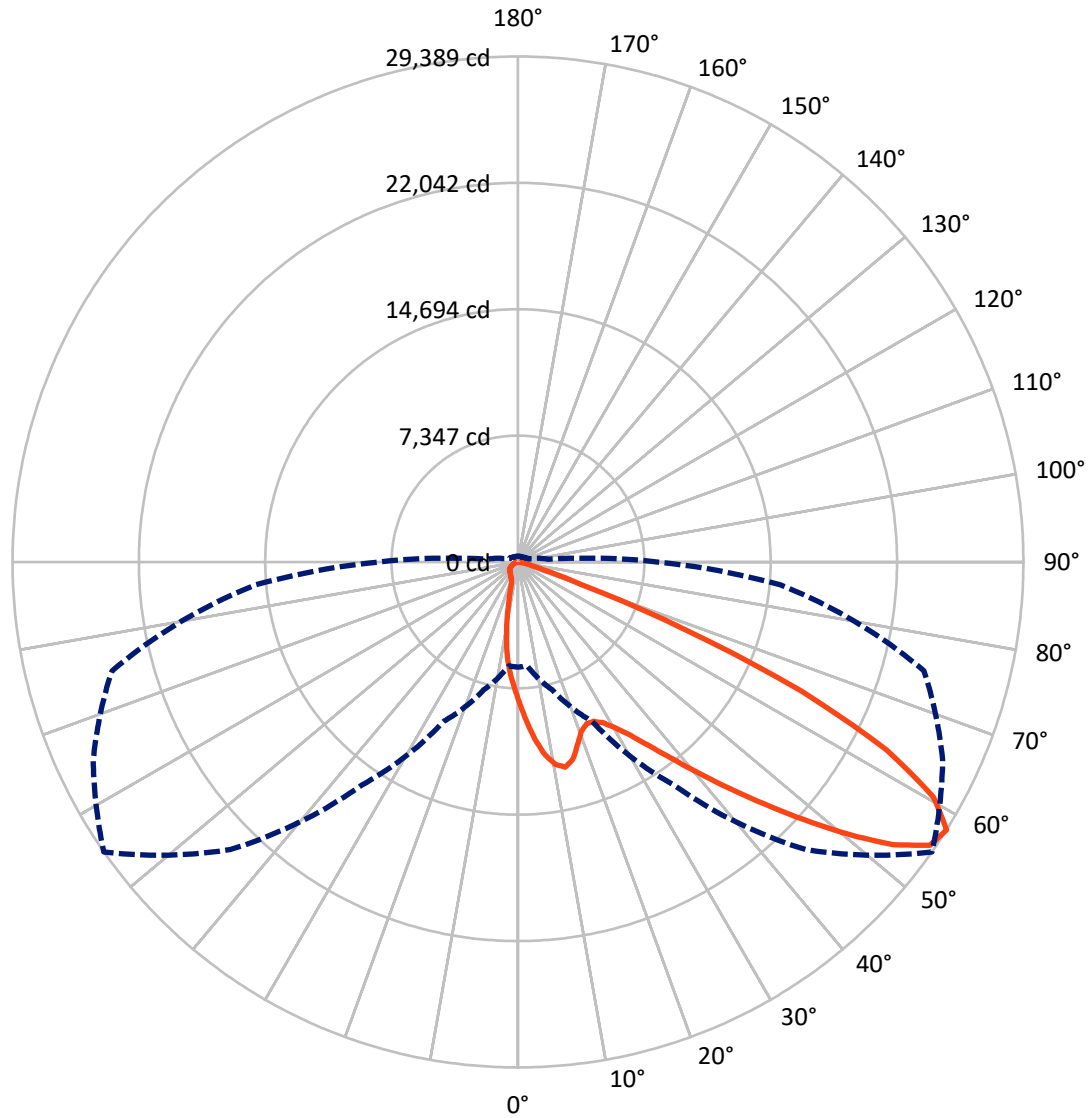
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	2629.6	0.0	2629.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	31041.4	0.0	31041.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	33671.0	0.0	33671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.9	2.2
10°-20°	1823.6	5.4
20°-30°	2917.7	8.7
30°-40°	4938.4	14.7
40°-50°	8107.8	24.1
50°-60°	8911.1	26.5
60°-70°	5111.4	15.2
70°-80°	1044.4	3.1
80°-90°	61.6	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°	33671.0	100.0
0°-180°	33671.0	100.0

Coefficient of Utilization



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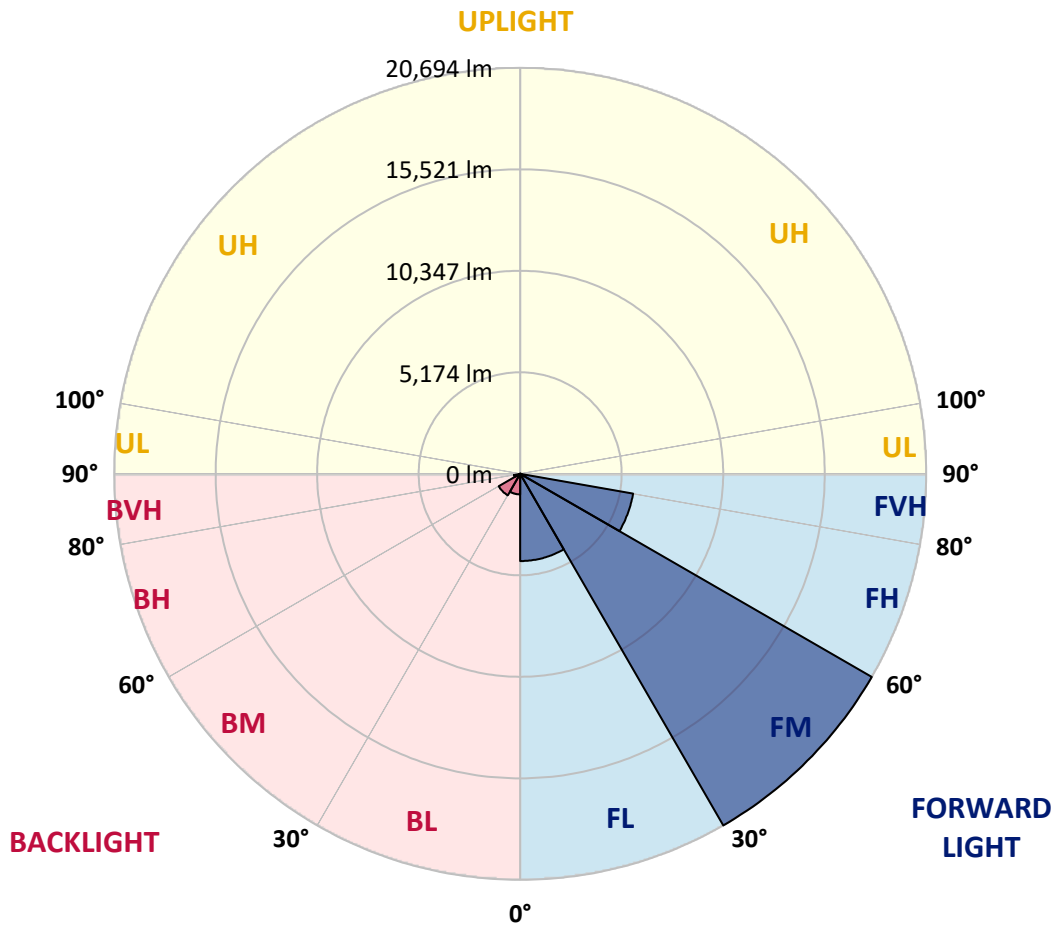
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4446.5	13.2			
FM (30°-60°)	20694.4	61.5			
FH (60°-80°)	5843.1	17.4			G3/7500
FVH (80°-90°)	57.5	0.2			G1/100
BL (0°-30°)	1049.8	3.1	B3/2500		
BM (30°-60°)	1262.9	3.8	B2/2500		
BH (60°-80°)	312.7	0.9	B1/500		G1/500
BVH (80°-90°)	4.2	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°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9
2.5°	10067.6	9941.0	9922.3	9897.4	9656.5	9475.9	9214.3	8927.8	8605.9	8277.9
5°	11631.0	11531.3	11512.7	11396.4	11122.3	10815.0	10350.0	9762.4	9162.4	8456.5
7.5°	11934.1	11915.4	12000.6	11996.4	11959.0	11716.1	11323.7	10624.0	9723.0	8676.5
10°	10582.5	10630.3	10883.6	11105.7	11705.7	12054.6	11969.4	11392.2	10300.1	8927.8
12.5°	9351.3	9295.3	9475.9	9727.1	10424.7	11462.8	12237.3	12033.8	10960.4	9212.2
15°	8579.0	8556.1	8657.9	8774.1	9305.6	10352.1	11925.8	12554.9	11595.7	9548.6
17.5°	8331.9	8313.2	8344.3	8373.4	8718.1	9527.8	11184.6	12874.7	12204.0	9932.7
20°	8533.3	8508.4	8504.2	8481.4	8624.6	9176.9	10514.0	12897.5	12750.1	10281.5
22.5°	9120.8	9091.8	8990.0	8898.7	8911.2	9224.7	10215.0	12669.1	13161.2	10607.4
25°	10186.0	10138.2	9926.4	9619.1	9424.0	9556.9	10260.7	12368.1	13553.6	10862.8
27.5°	11518.9	11456.6	11184.6	10727.8	10281.5	10119.5	10590.8	12160.4	13879.6	11058.0
30°	12824.8	12743.9	12476.0	12121.0	11469.1	10958.3	11186.7	12251.8	14267.8	11261.4
32.5°	14234.6	14157.8	13802.7	13362.6	12822.8	12135.5	12002.6	12698.2	14743.3	11545.9
35°	16018.1	15897.6	15393.1	14793.1	14220.1	13524.5	13107.2	13468.5	15376.5	11979.8
37.5°	18048.6	17886.7	17342.7	16514.3	15766.8	14988.3	14452.6	14527.3	16304.6	12561.2
40°	19962.9	19815.5	19313.0	18532.4	17593.9	16649.2	16078.3	15912.2	17585.6	13269.1
42.5°	21111.0	20978.2	20766.4	20436.3	19645.2	18681.9	17961.4	17602.2	19101.3	14116.2
45°	21175.4	21059.1	21343.6	21727.7	21572.0	20930.4	20052.2	19394.0	20623.1	14911.4
47.5°	20145.6	20066.7	20930.4	22271.6	22940.2	23210.1	22400.4	21036.3	21879.2	15482.4
50°	17338.5	17309.5	19086.7	21549.1	23461.3	25207.4	24877.3	22564.4	22853.0	15777.2
52.5°	15033.9	14928.0	15964.1	19236.2	22703.5	26258.0	27298.2	24063.4	23534.0	15833.3
55°	11402.6	11309.2	12608.9	15366.1	20259.8	25884.3	29069.2	25610.2	24021.9	15690.0
57.5°	6116.6	6058.4	7700.7	10227.5	15837.4	23642.0	29388.9	27246.3	24433.0	15310.1
60°	2381.4	2371.0	2985.6	4962.2	9625.4	19234.1	27775.7	28228.3	24690.4	14842.9
62.5°	1440.9	1472.0	1571.7	2227.8	4252.1	11948.7	24057.2	27111.3	24862.8	14415.2
65°	1191.8	1193.8	1206.3	1530.2	2036.8	4999.5	18110.9	23436.4	24437.1	13653.2
67.5°	1021.5	1040.2	1087.9	1214.6	1436.7	2192.5	10426.8	18154.5	21848.1	11880.2
70°	805.6	830.5	890.7	998.7	1108.7	1372.4	3853.5	12079.5	16690.8	8954.8
72.5°	678.9	676.8	708.0	811.8	880.3	965.4	1482.4	6768.5	9700.1	4274.9
75°	525.3	546.0	585.5	678.9	720.4	699.7	803.5	2472.8	3475.6	1295.6
77.5°	411.1	427.7	463.0	554.4	595.9	496.2	463.0	884.5	1117.0	465.1
80°	184.8	199.3	315.6	409.0	485.8	342.6	251.2	452.6	496.2	211.8
82.5°	33.2	56.1	184.8	215.9	249.1	222.2	130.8	234.6	242.9	85.1
85°	2.1	4.2	64.4	78.9	99.7	72.7	39.4	93.4	81.0	29.1
87.5°	0.0	0.0	0.0	2.1	2.1	10.4	12.5	16.6	12.5	10.4
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°
8113.9	0°	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9	8113.9
8132.6	2.5°	7983.1	7688.3	7401.7	7167.1	7030.1	6797.6	6643.9	6619.0	6554.6	6610.7
8153.3	5°	7829.4	7302.1	6768.5	6291.0	5898.6	5392.0	5014.1	4854.2	4715.1	4762.9
8207.3	7.5°	7756.8	6924.2	6093.7	5277.8	4439.0	3629.2	3027.1	2775.9	2584.9	2611.9
8267.5	10°	7659.2	6531.8	5230.0	3984.3	2861.0	2061.7	1646.4	1492.8	1407.7	1409.8
8356.8	12.5°	7584.4	6062.6	4227.2	2701.2	1742.0	1316.3	1187.6	1150.2	1125.3	1127.4
8491.8	15°	7547.1	5510.3	3236.8	1800.1	1245.7	1114.9	1083.8	1067.2	1050.6	1048.5
8641.2	17.5°	7484.8	4895.7	2369.0	1314.2	1090.0	1044.3	1017.3	998.7	977.9	973.7
8770.0	20°	7391.4	4198.1	1731.6	1110.8	1021.5	986.2	948.8	923.9	899.0	894.9
8850.9	22.5°	7219.0	3461.1	1330.9	1027.7	971.7	932.2	886.5	857.5	832.6	828.4
8811.5	25°	6899.3	2769.7	1121.2	975.8	928.1	880.3	830.5	791.0	768.2	764.1
8726.4	27.5°	6494.4	2175.9	1017.3	928.1	872.0	828.4	772.4	735.0	714.2	710.1
8614.3	30°	6016.9	1675.5	957.1	874.1	805.6	768.2	718.4	687.2	674.8	674.8
8535.4	32.5°	5502.0	1339.2	932.2	820.1	747.4	705.9	666.5	654.0	649.9	647.8
8579.0	35°	5018.2	1162.7	919.8	776.5	695.5	656.1	639.5	641.6	649.9	649.9
8713.9	37.5°	4588.5	1106.6	913.5	745.4	649.9	614.6	624.9	643.6	635.3	635.3
8950.6	40°	4200.2	1112.9	909.4	722.5	612.5	591.7	612.5	598.0	577.2	575.1
9239.2	42.5°	3903.3	1164.8	901.1	703.8	589.6	575.1	566.8	544.0	541.9	546.0
9538.2	45°	3687.4	1210.4	899.0	695.5	564.7	537.7	527.4	504.5	546.0	556.4
9660.7	47.5°	3432.0	1210.4	899.0	666.5	523.2	512.8	496.2	471.3	512.8	523.2
9544.4	50°	3101.9	1133.6	863.7	633.2	490.0	483.8	454.7	423.5	415.2	421.5
9272.4	52.5°	2684.6	994.5	774.4	587.6	456.8	444.3	409.0	386.2	379.9	379.9
8784.5	55°	2209.1	832.6	654.0	521.1	421.5	398.6	373.7	363.3	357.1	353.0
8101.4	57.5°	1795.9	683.1	525.3	463.0	388.3	359.2	350.9	338.4	328.0	321.8
7530.5	60°	1474.1	537.7	433.9	411.1	355.0	328.0	326.0	309.4	282.4	278.2
7059.2	62.5°	1137.8	394.5	365.4	357.1	321.8	299.0	294.8	261.6	220.1	211.8
6390.6	65°	803.5	307.3	294.8	313.5	286.5	265.8	255.4	205.5	161.9	155.7
5348.4	67.5°	564.7	257.5	232.5	274.1	249.1	222.2	215.9	174.4	135.0	130.8
4044.5	70°	402.8	209.7	191.0	234.6	199.3	195.2	182.7	145.3	110.0	105.9
2001.5	72.5°	284.4	159.9	147.4	203.5	137.0	168.2	149.5	112.1	83.0	78.9
681.0	75°	209.7	114.2	103.8	118.3	99.7	126.6	105.9	74.7	51.9	49.8
307.3	77.5°	153.6	72.7	62.3	58.1	58.1	78.9	58.1	31.1	22.8	20.8
155.7	80°	108.0	33.2	29.1	24.9	22.8	18.7	8.3	4.2	2.1	2.1
54.0	82.5°	64.4	14.5	14.5	10.4	6.2	0.0	0.0	0.0	0.0	0.0
20.8	85°	14.5	6.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	2.1	2.1	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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