

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: P953253

Luminaire Tested: **GALN-SB6D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953253
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-SB6D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 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: 50326 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

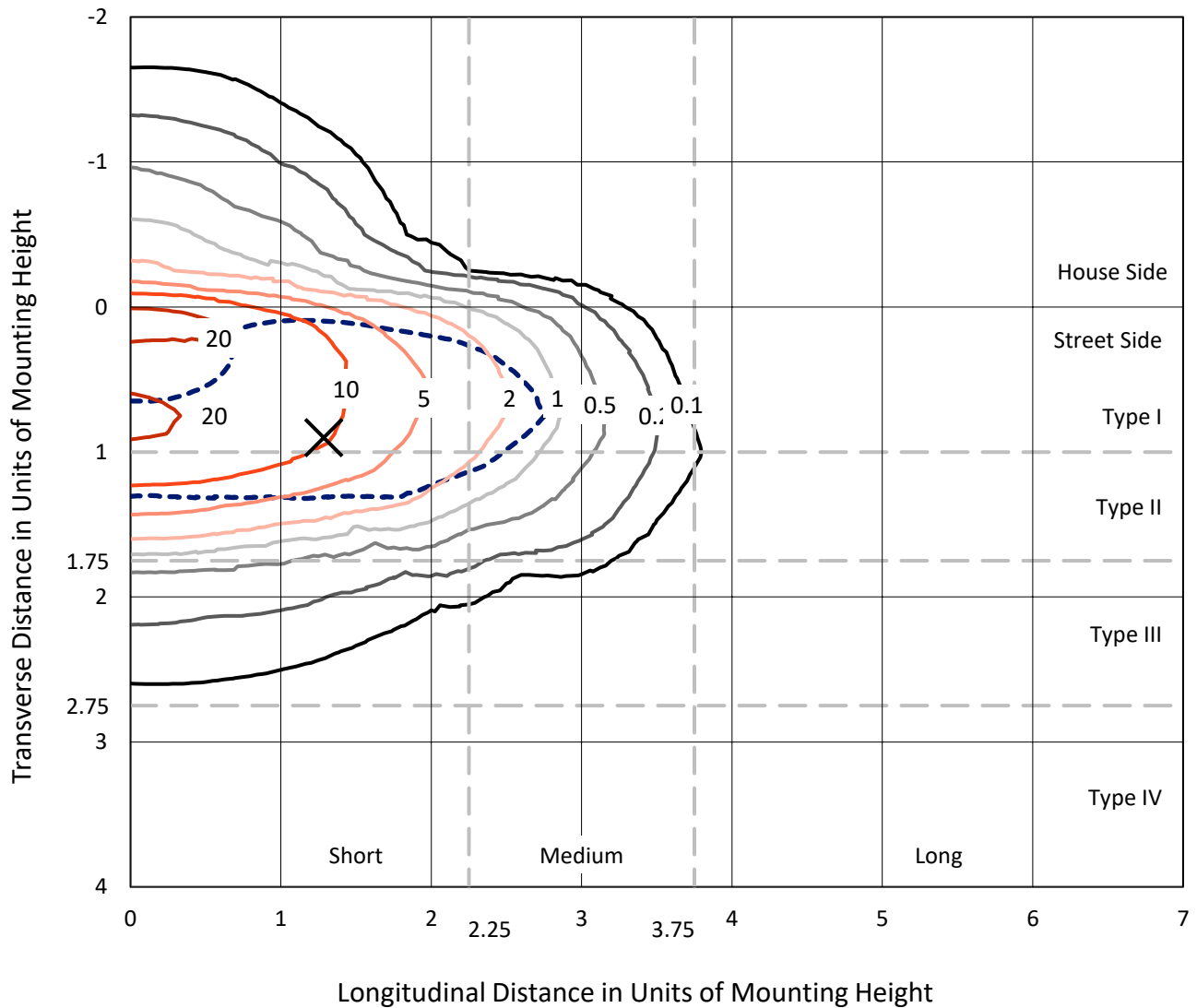
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

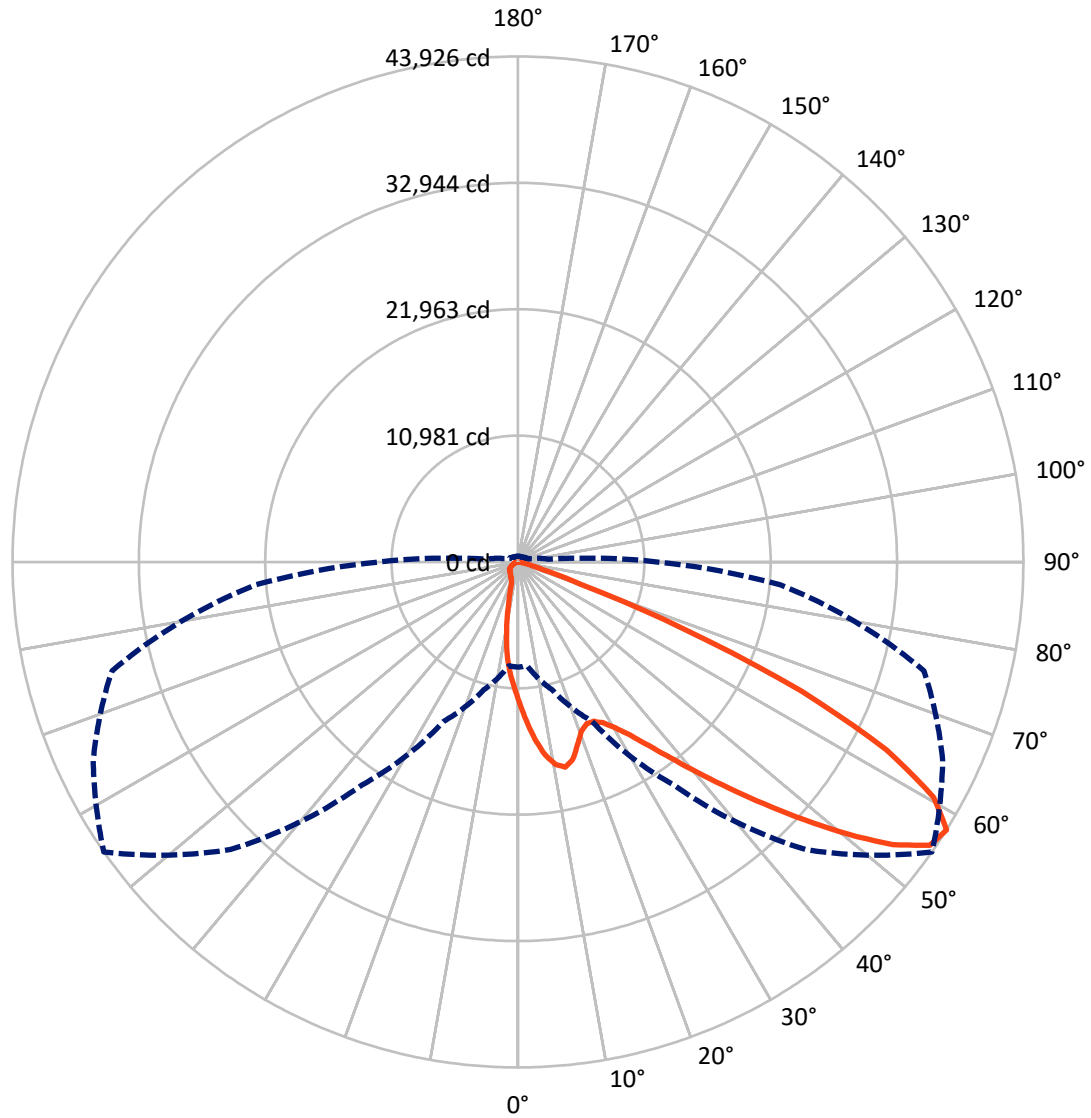
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 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	3930.3	0.0	3930.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	46395.7	0.0	46395.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	50326.0	0.0	50326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.4	2.2
10°-20°	2725.6	5.4
20°-30°	4360.9	8.7
30°-40°	7381.2	14.7
40°-50°	12118.3	24.1
50°-60°	13318.9	26.5
60°-70°	7639.7	15.2
70°-80°	1561.0	3.1
80°-90°	92.1	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°	50326.0	100.0
0°-180°	50326.0	100.0

Coefficient of Utilization



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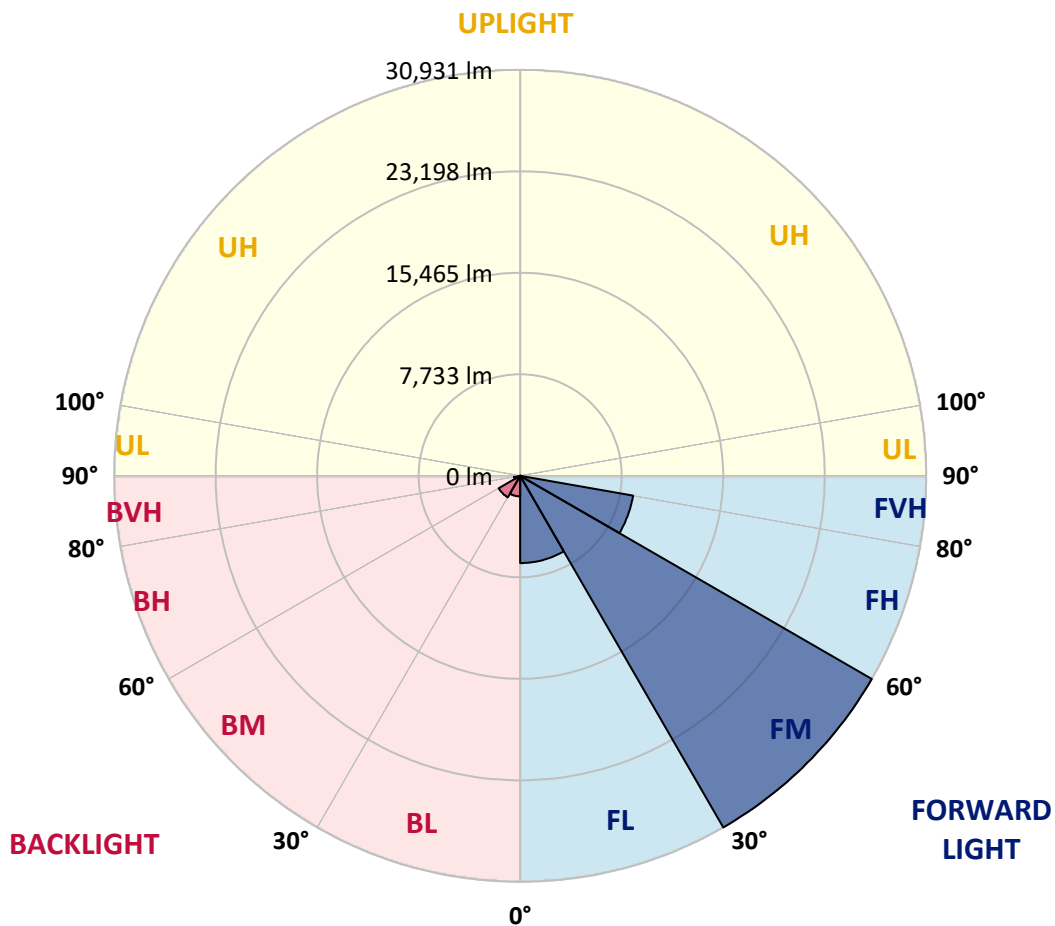
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6645.9	13.2			
FM (30°-60°)	30930.7	61.5			
FH (60°-80°)	8733.3	17.4			G4/12000
FVH (80°-90°)	85.9	0.2			G1/100
BL (0°-30°)	1569.1	3.1	B3/2500		
BM (30°-60°)	1887.6	3.8	B2/2500		
BH (60°-80°)	467.4	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3
2.5°	15047.4	14858.1	14830.2	14793.0	14433.0	14163.0	13772.0	13343.8	12862.8	12372.5
5°	17384.2	17235.2	17207.3	17033.5	16623.9	16164.6	15469.5	14591.3	13694.4	12639.4
7.5°	17837.2	17809.3	17936.5	17930.3	17874.5	17511.4	16924.9	15879.1	14532.3	12968.3
10°	15817.0	15888.4	16267.0	16599.0	17495.9	18017.2	17890.0	17027.3	15395.0	13343.8
12.5°	13976.8	13893.0	14163.0	14538.5	15581.2	17132.8	18290.3	17986.2	16381.8	13768.9
15°	12822.4	12788.3	12940.4	13114.1	13908.6	15472.6	17824.8	18765.1	17331.4	14271.6
17.5°	12453.2	12425.2	12471.8	12515.2	13030.4	14240.6	16717.0	19243.0	18240.6	14845.7
20°	12754.2	12716.9	12710.7	12676.6	12890.7	13716.2	15714.6	19277.1	19056.8	15367.1
22.5°	13632.4	13588.9	13436.9	13300.3	13319.0	13787.5	15267.8	18935.8	19671.2	15854.3
25°	15224.3	15153.0	14836.4	14377.1	14085.4	14284.1	15336.0	18485.8	20257.7	16236.0
27.5°	17216.6	17123.5	16717.0	16034.3	15367.1	15125.0	15829.4	18175.5	20744.9	16527.7
30°	19168.5	19047.5	18647.2	18116.5	17142.1	16378.7	16720.1	18312.0	21325.2	16831.8
32.5°	21275.6	21160.8	20630.1	19972.2	19165.4	18138.2	17939.6	18979.2	22035.9	17256.9
35°	23941.2	23761.2	23007.2	22110.3	21253.9	20214.3	19590.5	20130.5	22982.3	17905.5
37.5°	26976.2	26734.1	25921.1	24682.9	23565.7	22402.0	21601.4	21713.1	24369.5	18774.4
40°	29837.3	29617.0	28866.0	27699.2	26296.6	24884.6	24031.2	23783.0	26284.1	19832.6
42.5°	31553.4	31354.8	31038.3	30544.8	29362.5	27922.6	26845.8	26309.0	28549.5	21098.7
45°	31649.6	31475.8	31900.9	32475.0	32242.3	31283.4	29970.8	28987.0	30824.1	22287.2
47.5°	30110.4	29992.5	31283.4	33288.1	34287.3	34690.7	33480.5	31441.7	32701.6	23140.6
50°	25914.9	25871.4	28527.8	32208.2	35066.2	37676.0	37182.6	33725.6	34157.0	23581.3
52.5°	22470.3	22312.0	23860.5	28751.2	33933.5	39246.2	40800.9	35966.1	35174.8	23665.0
55°	17042.8	16903.2	18845.8	22966.8	30281.1	38687.7	43448.0	38278.0	35904.1	23450.9
57.5°	9142.0	9055.2	11509.8	15286.4	23671.2	35336.2	43925.9	40723.4	36518.5	22883.0
60°	3559.4	3543.9	4462.4	7416.7	14386.5	28748.1	41514.7	42191.2	36903.3	22184.8
62.5°	2153.6	2200.2	2349.1	3329.7	6355.4	17858.9	35956.8	40521.7	37160.9	21545.6
65°	1781.2	1784.3	1803.0	2287.1	3044.2	7472.5	27069.3	35029.0	36524.7	20406.7
67.5°	1526.8	1554.7	1626.1	1815.4	2147.4	3277.0	15584.3	27134.4	32655.0	17756.5
70°	1204.0	1241.3	1331.3	1492.6	1657.1	2051.2	5759.5	18054.4	24946.7	13384.1
72.5°	1014.7	1011.6	1058.2	1213.4	1315.8	1443.0	2215.7	10116.4	14498.2	6389.5
75°	785.1	816.1	875.1	1014.7	1076.8	1045.8	1200.9	3695.9	5194.8	1936.4
77.5°	614.4	639.3	692.0	828.6	890.6	741.7	692.0	1322.0	1669.5	695.1
80°	276.2	297.9	471.7	611.3	726.2	512.0	375.5	676.5	741.7	316.5
82.5°	49.7	83.8	276.2	322.7	372.4	332.0	195.5	350.7	363.1	127.2
85°	3.1	6.2	96.2	117.9	149.0	108.6	59.0	139.6	121.0	43.4
87.5°	0.0	0.0	0.0	3.1	3.1	15.5	18.6	24.8	18.6	15.5
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°
12127.3	0°	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3	12127.3
12155.3	2.5°	11931.8	11491.2	11062.9	10712.3	10507.5	10159.9	9930.3	9893.0	9796.8	9880.6
12186.3	5°	11702.2	10914.0	10116.4	9402.7	8816.2	8059.0	7494.2	7255.3	7047.4	7118.8
12267.0	7.5°	11593.6	10349.2	9107.9	7888.3	6634.7	5424.4	4524.5	4149.0	3863.5	3903.8
12357.0	10°	11447.7	9762.7	7817.0	5955.1	4276.2	3081.5	2460.8	2231.2	2104.0	2107.1
12490.4	12.5°	11336.0	9061.4	6318.1	4037.3	2603.6	1967.4	1775.0	1719.2	1681.9	1685.0
12692.1	15°	11280.2	8235.9	4837.9	2690.5	1861.9	1666.4	1619.9	1595.0	1570.2	1567.1
12915.5	17.5°	11187.1	7317.4	3540.8	1964.3	1629.2	1560.9	1520.6	1492.6	1461.6	1455.4
13107.9	20°	11047.4	6274.7	2588.1	1660.2	1526.8	1474.0	1418.2	1380.9	1343.7	1337.5
13229.0	22.5°	10789.8	5173.0	1989.2	1536.1	1452.3	1393.3	1325.1	1281.6	1244.4	1238.2
13170.0	25°	10312.0	4139.7	1675.7	1458.5	1387.1	1315.8	1241.3	1182.3	1148.2	1142.0
13042.8	27.5°	9706.8	3252.2	1520.6	1387.1	1303.3	1238.2	1154.4	1098.5	1067.5	1061.3
12875.2	30°	8993.1	2504.3	1430.6	1306.4	1204.0	1148.2	1073.7	1027.2	1008.5	1008.5
12757.3	32.5°	8223.5	2001.6	1393.3	1225.8	1117.2	1055.1	996.1	977.5	971.3	968.2
12822.4	35°	7500.4	1737.8	1374.7	1160.6	1039.6	980.6	955.8	958.9	971.3	971.3
13024.2	37.5°	6858.1	1654.0	1365.4	1114.1	971.3	918.5	934.1	962.0	949.6	949.6
13377.9	40°	6277.8	1663.3	1359.2	1079.9	915.4	884.4	915.4	893.7	862.7	859.6
13809.3	42.5°	5834.0	1740.9	1346.8	1052.0	881.3	859.6	847.2	813.0	809.9	816.1
14256.1	45°	5511.3	1809.2	1343.7	1039.6	844.1	803.7	788.2	754.1	816.1	831.7
14439.2	47.5°	5129.6	1809.2	1343.7	996.1	782.0	766.5	741.7	704.4	766.5	782.0
14265.4	50°	4636.2	1694.4	1290.9	946.5	732.4	723.0	679.6	633.1	620.6	630.0
13858.9	52.5°	4012.4	1486.4	1157.5	878.2	682.7	664.1	611.3	577.2	567.9	567.9
13129.7	55°	3301.8	1244.4	977.5	778.9	630.0	595.8	558.6	543.1	533.8	527.5
12108.7	57.5°	2684.3	1021.0	785.1	692.0	580.3	536.9	524.4	505.8	490.3	481.0
11255.3	60°	2203.3	803.7	648.6	614.4	530.6	490.3	487.2	462.4	422.0	415.8
10550.9	62.5°	1700.6	589.6	546.2	533.8	481.0	446.9	440.7	391.0	328.9	316.5
9551.7	65°	1200.9	459.3	440.7	468.6	428.2	397.2	381.7	307.2	242.1	232.7
7993.9	67.5°	844.1	384.8	347.6	409.6	372.4	332.0	322.7	260.7	201.7	195.5
6045.0	70°	602.0	313.4	285.5	350.7	297.9	291.7	273.1	217.2	164.5	158.3
2991.5	72.5°	425.1	238.9	220.3	304.1	204.8	251.4	223.4	167.6	124.1	117.9
1017.9	75°	313.4	170.7	155.2	176.9	149.0	189.3	158.3	111.7	77.6	74.5
459.3	77.5°	229.6	108.6	93.1	86.9	86.9	117.9	86.9	46.5	34.1	31.0
232.7	80°	161.4	49.7	43.4	37.2	34.1	27.9	12.4	6.2	3.1	3.1
80.7	82.5°	96.2	21.7	21.7	15.5	9.3	0.0	0.0	0.0	0.0	0.0
31.0	85°	21.7	9.3	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	3.1	3.1	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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