

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: P951699

Luminaire Tested: **GALN-SB5D-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951699  
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-SB5D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

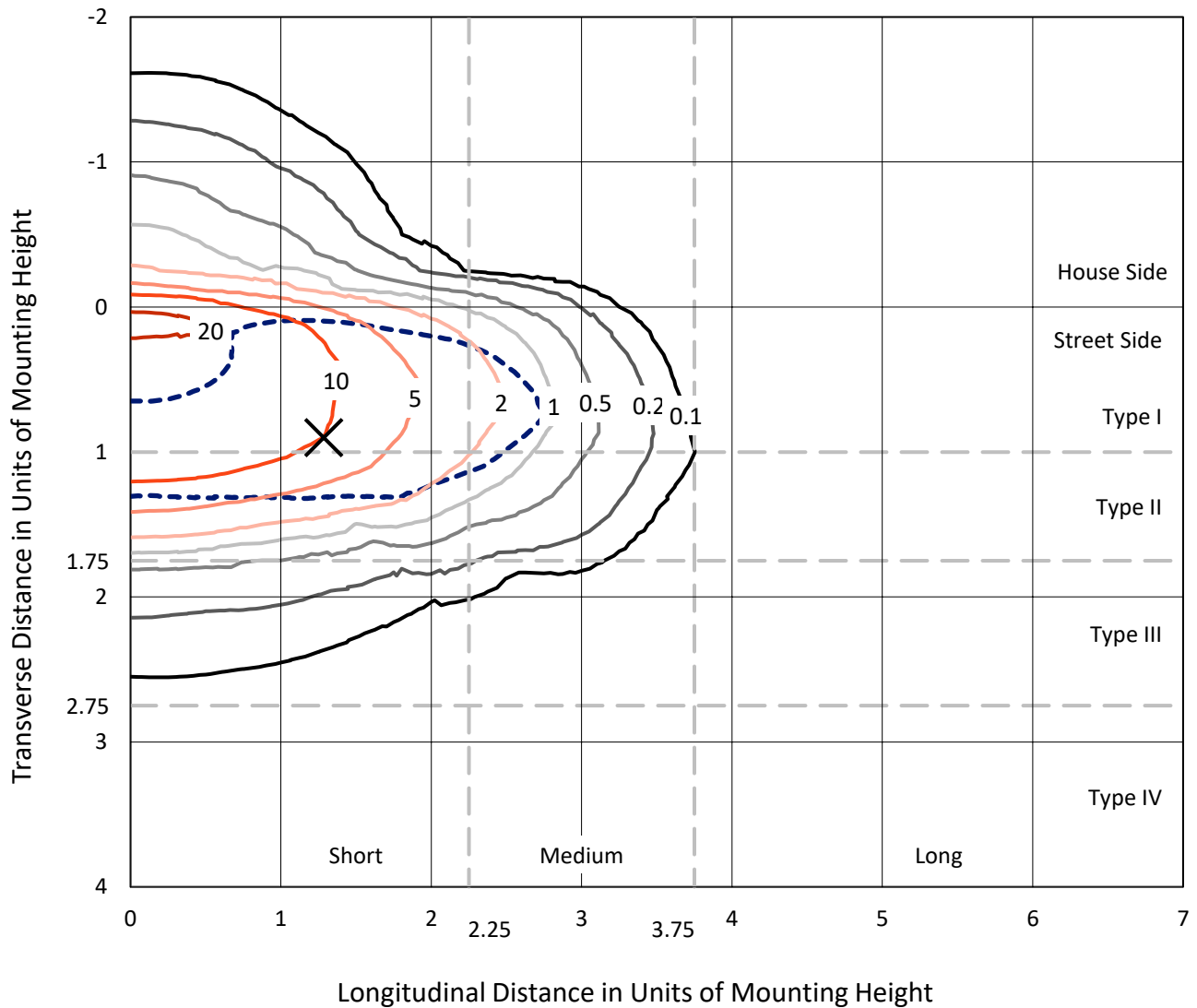
Lumens per Lamp: N/A  
Luminaire Lumens: 46369 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

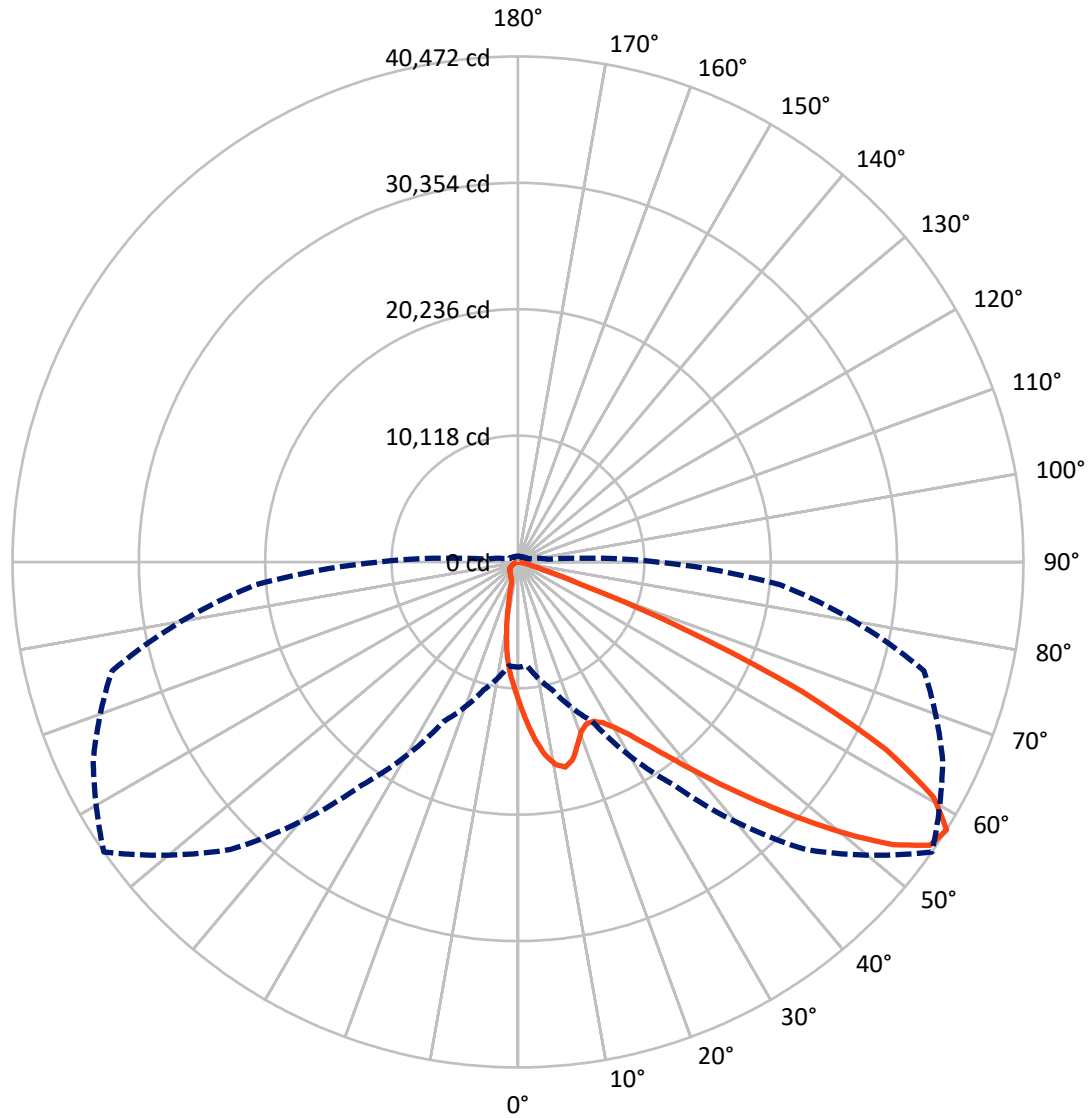
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.6 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
<b>House Side</b>	Lumens	3621.2	0.0	3621.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	42747.8	0.0	42747.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	46369.0	0.0	46369.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1039.7	2.2
10°-20°	2511.3	5.4
20°-30°	4018.0	8.7
30°-40°	6800.8	14.7
40°-50°	11165.5	24.1
50°-60°	12271.6	26.5
60°-70°	7039.0	15.2
70°-80°	1438.3	3.1
80°-90°	84.8	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°	46369.0	100.0
0°-180°	46369.0	100.0

**Coefficient of Utilization**



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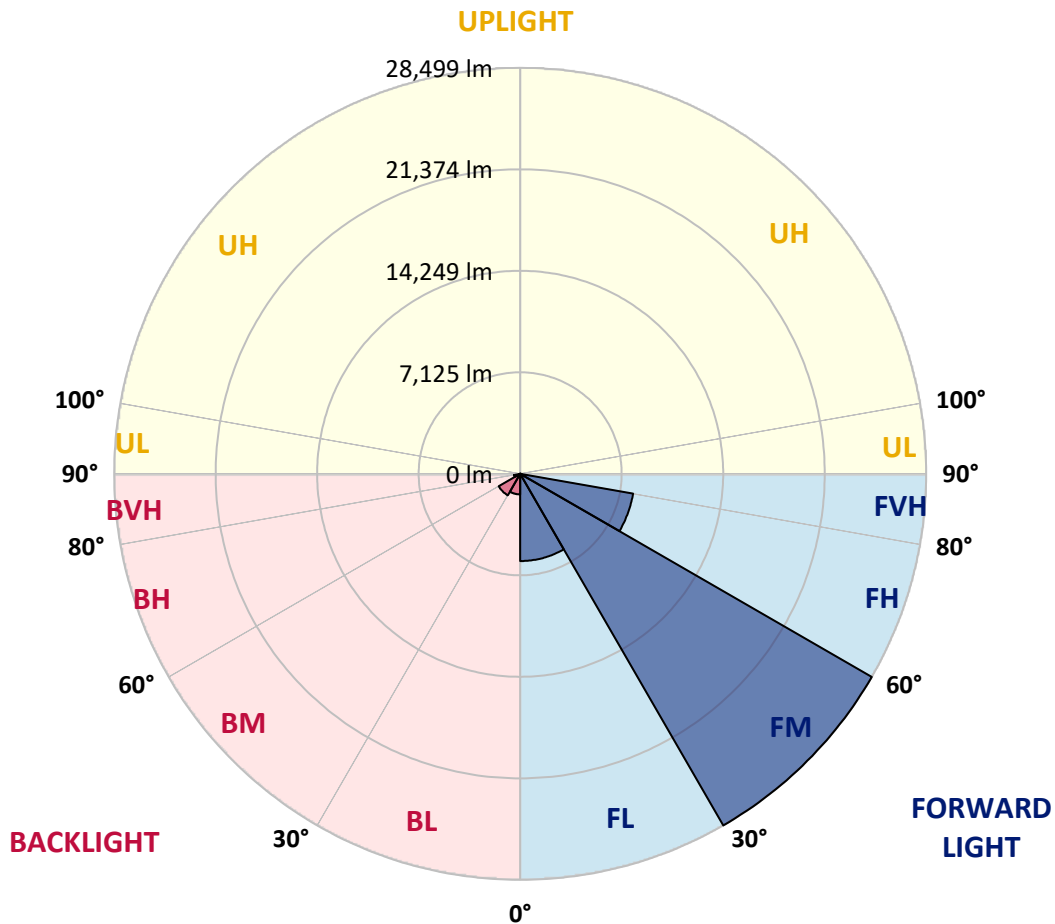
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6123.3	13.2			
FM (30°-60°)	28498.7	61.5			
FH (60°-80°)	8046.6	17.4			G4/12000
FVH (80°-90°)	79.1	0.2			G1/100
BL (0°-30°)	1445.7	3.1	B3/2500		
BM (30°-60°)	1739.2	3.8	B2/2500		
BH (60°-80°)	430.7	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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°	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8
2.5°	13864.3	13689.9	13664.2	13629.8	13298.2	13049.4	12689.2	12294.6	11851.4	11399.7
5°	16017.3	15880.0	15854.3	15694.2	15316.8	14893.6	14253.2	13444.0	12617.7	11645.6
7.5°	16434.7	16409.0	16526.2	16520.5	16469.0	16134.5	15594.1	14630.6	13389.7	11948.6
10°	14573.4	14639.1	14988.0	15293.9	16120.2	16600.6	16483.3	15688.5	14184.5	12294.6
12.5°	12877.9	12800.7	13049.4	13395.4	14356.1	15785.7	16852.2	16572.0	15093.8	12686.3
15°	11814.2	11782.8	11922.9	12083.0	12815.0	14256.0	16423.3	17289.6	15968.7	13149.5
17.5°	11474.0	11448.3	11491.2	11531.2	12005.8	13120.9	15402.6	17730.0	16806.4	13678.5
20°	11751.3	11717.0	11711.3	11679.9	11877.2	12637.7	14479.0	17761.4	17558.4	14158.8
22.5°	12560.5	12520.5	12380.4	12254.6	12271.7	12703.5	14067.3	17446.9	18124.5	14607.7
25°	14027.3	13961.5	13669.9	13246.7	12977.9	13160.9	14130.2	17032.3	18664.9	14959.4
27.5°	15862.9	15777.1	15402.6	14773.5	14158.8	13935.8	14584.8	16746.4	19113.8	15228.1
30°	17661.3	17549.8	17181.0	16692.1	15794.3	15090.9	15405.4	16872.2	19648.5	15508.3
32.5°	19602.7	19496.9	19008.0	18401.9	17658.5	16712.1	16529.1	17486.9	20303.2	15900.1
35°	22058.8	21893.0	21198.2	20371.9	19582.7	18624.9	18050.2	18547.7	21175.3	16497.6
37.5°	24855.1	24632.1	23883.0	22742.1	21712.8	20640.6	19902.9	20005.9	22453.4	17298.2
40°	27491.3	27288.3	26596.4	25521.3	24228.9	22928.0	22141.7	21913.0	24217.5	18273.2
42.5°	29072.4	28889.4	28597.8	28143.2	27053.8	25727.2	24735.0	24240.4	26304.7	19439.8
45°	29161.1	29001.0	29392.7	29921.6	29707.2	28823.7	27614.2	26707.9	28400.5	20534.8
47.5°	27742.9	27634.2	28823.7	30670.7	31591.4	31963.1	30848.0	28969.5	30130.3	21321.1
50°	23877.2	23837.2	26284.7	29675.7	32309.1	34713.6	34259.0	31073.9	31471.3	21727.1
52.5°	20703.5	20557.7	21984.5	26490.6	31265.4	36160.4	37592.9	33138.2	32409.1	21804.3
55°	15702.8	15574.1	17364.0	21161.0	27900.2	35645.8	40031.8	35268.3	33081.0	21607.0
57.5°	8423.2	8343.2	10604.8	14084.5	21810.0	32557.8	40472.1	37521.4	33647.2	21083.8
60°	3279.5	3265.2	4111.5	6833.5	13255.3	26487.7	38250.5	38873.8	34001.7	20440.5
62.5°	1984.3	2027.2	2164.4	3067.9	5855.7	16454.7	33129.6	37335.5	34239.0	19851.5
65°	1641.2	1644.0	1661.2	2107.2	2804.9	6885.0	24940.9	32274.7	33652.9	18802.2
67.5°	1406.7	1432.5	1498.2	1672.6	1978.6	3019.3	14358.9	25000.9	30087.4	16360.4
70°	1109.4	1143.7	1226.6	1375.3	1526.8	1889.9	5306.7	16634.9	22985.2	12331.8
72.5°	935.0	932.1	975.0	1118.0	1212.3	1329.5	2041.5	9321.0	13358.2	5887.1
75°	723.4	752.0	806.3	935.0	992.1	963.6	1106.5	3405.3	4786.3	1784.1
77.5°	566.1	589.0	637.6	763.4	820.6	683.4	637.6	1218.0	1538.3	640.5
80°	254.5	274.5	434.6	563.3	669.1	471.8	346.0	623.3	683.4	291.6
82.5°	45.7	77.2	254.5	297.4	343.1	305.9	180.1	323.1	334.5	117.2
85°	2.9	5.7	88.6	108.6	137.2	100.1	54.3	128.7	111.5	40.0
87.5°	0.0	0.0	0.0	2.9	2.9	14.3	17.2	22.9	17.2	14.3
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°
11173.8	0°	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8	11173.8
11199.5	2.5°	10993.7	10587.6	10193.1	9870.0	9681.3	9361.0	9149.5	9115.2	9026.5	9103.7
11228.1	5°	10782.1	10055.8	9321.0	8663.4	8123.0	7425.4	6905.0	6684.8	6493.3	6559.0
11302.5	7.5°	10682.0	9535.5	8391.8	7268.1	6113.0	4997.9	4168.7	3822.8	3559.7	3596.9
11385.4	10°	10547.6	8995.1	7202.3	5486.8	3940.0	2839.2	2267.4	2055.8	1938.5	1941.4
11508.3	12.5°	10444.7	8348.9	5821.3	3719.8	2398.9	1812.7	1635.5	1584.0	1549.7	1552.6
11694.2	15°	10393.2	7588.3	4457.5	2478.9	1715.5	1535.4	1492.5	1469.6	1446.8	1443.9
11900.0	17.5°	10307.4	6742.0	3262.4	1809.9	1501.1	1438.2	1401.0	1375.3	1346.7	1341.0
12077.3	20°	10178.8	5781.3	2384.6	1529.7	1406.7	1358.1	1306.7	1272.3	1238.0	1232.3
12188.8	22.5°	9941.5	4766.3	1832.8	1415.3	1338.1	1283.8	1220.9	1180.9	1146.5	1140.8
12134.5	25°	9501.1	3814.2	1544.0	1343.8	1278.1	1212.3	1143.7	1089.4	1057.9	1052.2
12017.3	27.5°	8943.6	2996.5	1401.0	1278.1	1200.9	1140.8	1063.6	1012.2	983.6	977.8
11862.9	30°	8286.0	2307.4	1318.1	1203.7	1109.4	1057.9	989.3	946.4	929.2	929.2
11754.2	32.5°	7576.9	1844.2	1283.8	1129.4	1029.3	972.1	917.8	900.7	894.9	892.1
11814.2	35°	6910.7	1601.2	1266.6	1069.3	957.8	903.5	880.6	883.5	894.9	894.9
12000.1	37.5°	6318.9	1524.0	1258.1	1026.5	894.9	846.3	860.6	886.4	874.9	874.9
12326.0	40°	5784.2	1532.5	1252.3	995.0	843.5	814.9	843.5	823.5	794.9	792.0
12723.5	42.5°	5375.3	1604.0	1240.9	969.3	812.0	792.0	780.6	749.1	746.3	752.0
13135.2	45°	5078.0	1666.9	1238.0	957.8	777.7	740.5	726.2	694.8	752.0	766.3
13303.9	47.5°	4726.3	1666.9	1238.0	917.8	720.5	706.2	683.4	649.0	706.2	720.5
13143.8	50°	4271.7	1561.1	1189.4	872.1	674.8	666.2	626.2	583.3	571.8	580.4
12769.2	52.5°	3697.0	1369.6	1066.5	809.2	629.0	611.9	563.3	531.8	523.2	523.2
12097.3	55°	3042.2	1146.5	900.7	717.7	580.4	549.0	514.7	500.4	491.8	486.1
11156.6	57.5°	2473.2	940.7	723.4	637.6	534.7	494.6	483.2	466.1	451.8	443.2
10370.3	60°	2030.0	740.5	597.6	566.1	488.9	451.8	448.9	426.0	388.9	383.1
9721.3	62.5°	1566.8	543.2	503.2	491.8	443.2	411.7	406.0	360.3	303.1	291.6
8800.6	65°	1106.5	423.2	406.0	431.7	394.6	366.0	351.7	283.1	223.0	214.4
7365.3	67.5°	777.7	354.5	320.2	377.4	343.1	305.9	297.4	240.2	185.8	180.1
5569.7	70°	554.7	288.8	263.0	323.1	274.5	268.8	251.6	200.1	151.5	145.8
2756.3	72.5°	391.7	220.2	203.0	280.2	188.7	231.6	205.9	154.4	114.4	108.6
937.8	75°	288.8	157.3	143.0	163.0	137.2	174.4	145.8	102.9	71.5	68.6
423.2	77.5°	211.6	100.1	85.8	80.1	80.1	108.6	80.1	42.9	31.5	28.6
214.4	80°	148.7	45.7	40.0	34.3	31.5	25.7	11.4	5.7	2.9	2.9
74.3	82.5°	88.6	20.0	20.0	14.3	8.6	0.0	0.0	0.0	0.0	0.0
28.6	85°	20.0	8.6	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	2.9	2.9	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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