

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: P957390

Luminaire Tested: **GALN-SB9D-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957390  
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-SB9D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

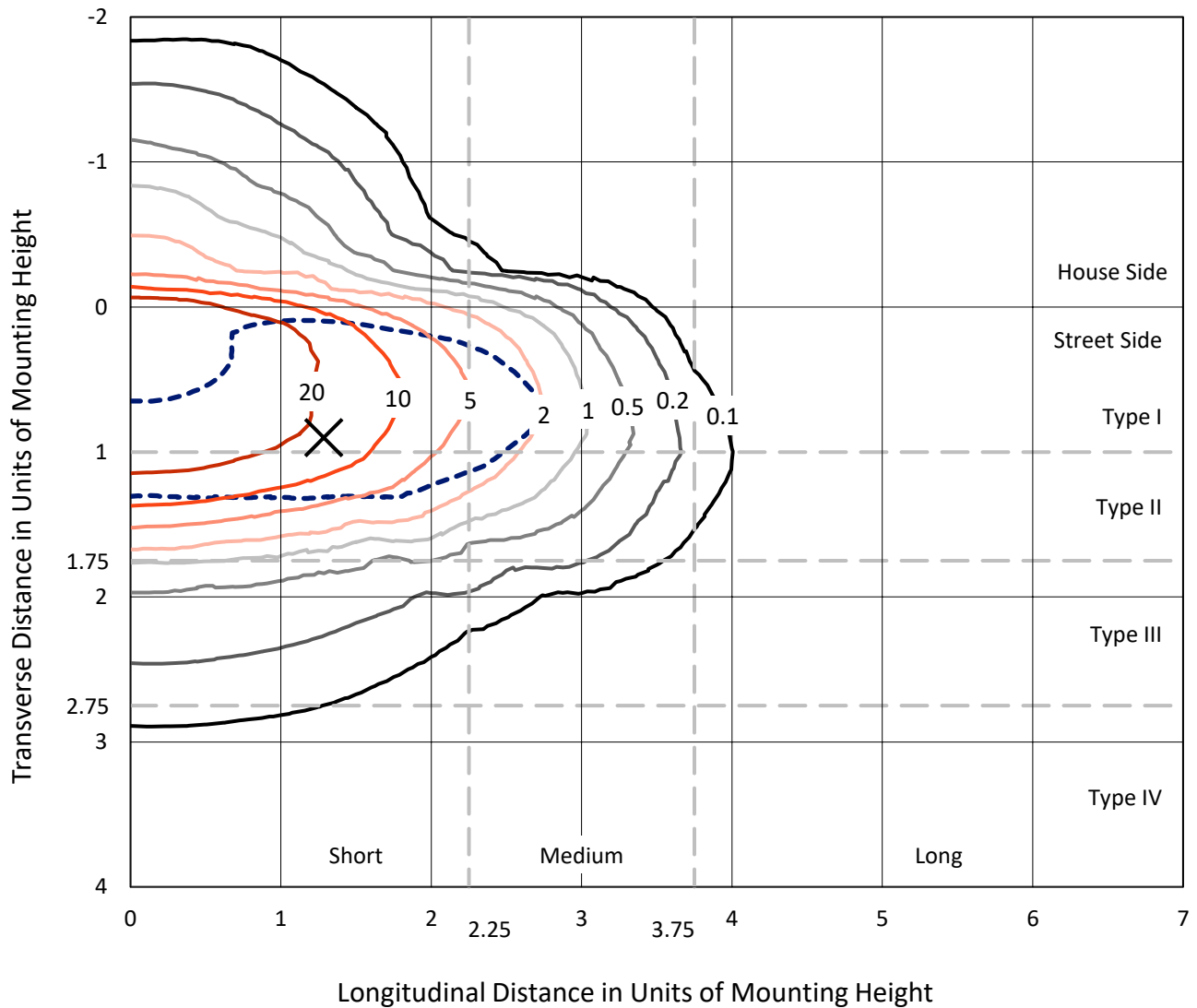
Lumens per Lamp: N/A  
Luminaire Lumens: 79027 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

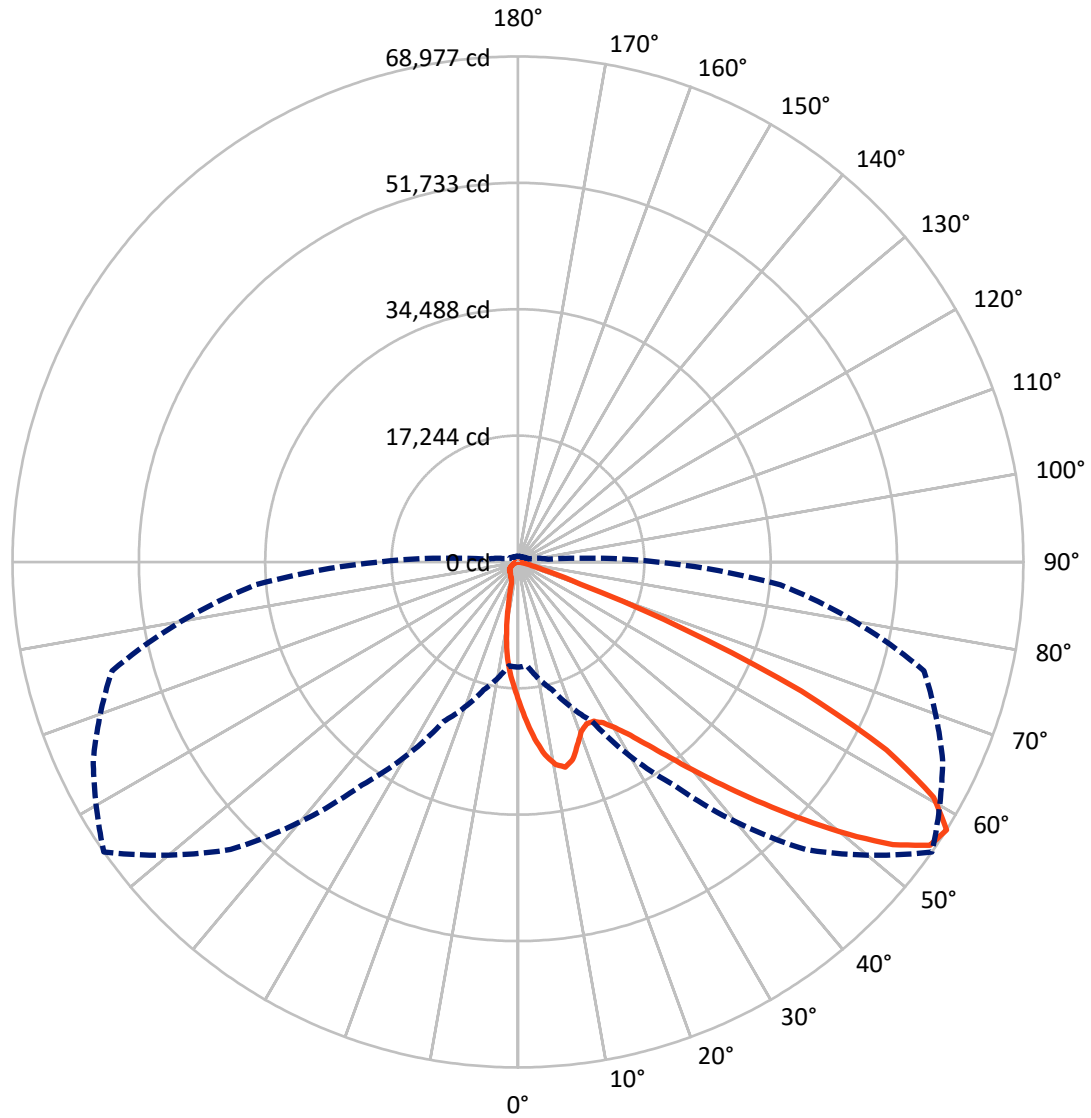
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 43.6 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	6171.7	0.0	6171.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	72855.3	0.0	72855.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	79027.0	0.0	79027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1771.9	2.2
10°-20°	4280.0	5.4
20°-30°	6848.0	8.7
30°-40°	11590.6	14.7
40°-50°	19029.4	24.1
50°-60°	20914.6	26.5
60°-70°	11996.6	15.2
70°-80°	2451.3	3.1
80°-90°	144.6	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°	79027.0	100.0
0°-180°	79027.0	100.0

**Coefficient of Utilization**



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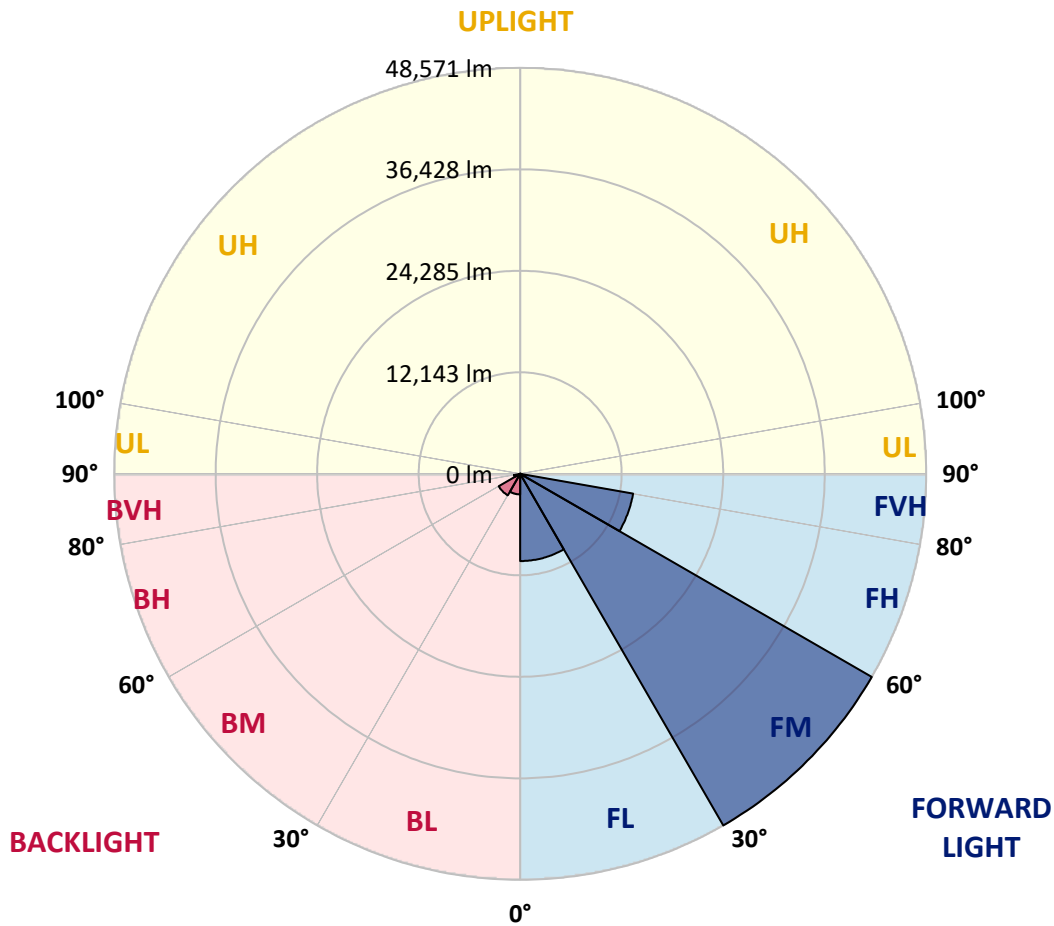
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10436.0	13.2			
FM (30°-60°)	48570.6	61.5			
FH (60°-80°)	13713.9	17.4			G5
FVH (80°-90°)	134.8	0.2			G2/225
BL (0°-30°)	2463.9	3.1	B3/2500		
BM (30°-60°)	2964.0	3.8	B3/5000		
BH (60°-80°)	734.0	0.9	B2/1000		G2/1000
BVH (80°-90°)	9.8	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-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6
2.5°	23629.0	23331.8	23287.9	23229.4	22664.2	22240.2	21626.2	20953.8	20198.5	19428.5
5°	27298.4	27064.5	27020.6	26747.7	26104.5	25383.3	24291.7	22912.7	21504.4	19847.6
7.5°	28009.8	27966.0	28165.8	28156.0	28068.3	27498.2	26577.2	24935.0	22820.1	20364.1
10°	24837.5	24949.6	25544.1	26065.5	27473.8	28292.5	28092.7	26738.0	24174.8	20953.8
12.5°	21947.8	21816.3	22240.2	22829.9	24467.2	26903.7	28721.3	28243.7	25724.4	21621.4
15°	20135.1	20081.5	20320.3	20593.2	21840.6	24296.6	27990.3	29466.8	27215.5	22410.8
17.5°	19555.2	19511.4	19584.5	19652.7	20461.6	22362.1	26250.7	30217.3	28643.3	23312.3
20°	20027.9	19969.4	19959.7	19906.1	20242.3	21538.5	24676.7	30270.9	29924.9	24130.9
22.5°	21406.9	21338.7	21100.0	20885.5	20914.8	21650.6	23975.0	29734.9	30889.7	24896.0
25°	23906.8	23794.7	23297.7	22576.5	22118.4	22430.3	24082.2	29028.3	31810.7	25495.4
27.5°	27035.2	26889.0	26250.7	25178.6	24130.9	23750.8	24857.0	28541.0	32575.8	25953.4
30°	30100.3	29910.3	29281.7	28448.4	26918.3	25719.5	26255.6	28755.4	33487.0	26431.0
32.5°	33409.1	33228.8	32395.5	31362.4	30095.5	28482.5	28170.6	29803.1	34602.9	27098.6
35°	37594.9	37312.3	36128.2	34719.9	33375.0	31742.5	30763.0	31610.9	36089.2	28117.0
37.5°	42360.7	41980.6	40703.9	38759.6	37005.3	35178.0	33920.7	34096.2	38267.4	29481.5
40°	46853.6	46507.6	45328.3	43496.1	41293.5	39076.3	37736.3	37346.4	41274.0	31143.1
42.5°	49548.3	49236.5	48739.4	47964.6	46108.0	43847.0	42156.0	41313.0	44831.3	33131.3
45°	49699.4	49426.5	50094.1	50995.6	50630.1	49124.4	47063.1	45518.4	48403.2	34997.7
47.5°	47282.4	47097.2	49124.4	52272.3	53841.4	54474.9	52574.5	49372.9	51351.3	36337.7
50°	40694.2	40625.9	44797.2	50576.5	55064.5	59162.7	58387.9	52959.4	53636.8	37029.7
52.5°	35285.2	35036.6	37468.3	45148.0	53285.9	61628.4	64069.8	56477.7	55235.1	37161.3
55°	26762.3	26543.1	29593.5	36064.8	47550.4	60751.3	68226.4	60108.1	56380.2	36825.0
57.5°	14355.8	14219.3	18073.8	24004.2	37171.0	55488.5	68976.9	63948.0	57345.1	35933.3
60°	5589.3	5564.9	7007.3	11646.4	22591.1	45143.2	65190.6	66252.9	57949.3	34836.8
62.5°	3381.8	3454.9	3688.8	5228.7	9979.8	28043.9	56463.1	63631.2	58353.8	33833.0
65°	2797.1	2802.0	2831.2	3591.4	4780.4	11734.1	42506.9	55006.1	57354.8	32044.6
67.5°	2397.5	2441.4	2553.4	2850.7	3372.1	5145.9	24472.0	42609.2	51278.2	27883.1
70°	1890.7	1949.2	2090.5	2343.9	2602.2	3221.0	9044.2	28350.9	39173.8	21017.1
72.5°	1593.5	1588.6	1661.7	1905.3	2066.1	2265.9	3479.3	15885.9	22766.5	10033.4
75°	1232.9	1281.6	1374.2	1593.5	1690.9	1642.2	1885.8	5803.7	8157.3	3040.7
77.5°	964.8	1003.8	1086.7	1301.1	1398.5	1164.6	1086.7	2075.9	2621.7	1091.5
80°	433.7	467.8	740.7	960.0	1140.3	804.0	589.6	1062.3	1164.6	497.0
82.5°	78.0	131.6	433.7	506.8	584.8	521.4	307.0	550.6	570.1	199.8
85°	4.9	9.7	151.1	185.2	233.9	170.6	92.6	219.3	190.0	68.2
87.5°	0.0	0.0	0.0	4.9	4.9	24.4	29.2	39.0	29.2	24.4
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°
19043.6	0°	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6	19043.6
19087.4	2.5°	18736.6	18044.6	17372.1	16821.5	16499.9	15954.1	15593.5	15535.0	15384.0	15515.5
19136.1	5°	18376.0	17138.2	15885.9	14765.1	13844.1	12655.1	11768.2	11393.0	11066.5	11178.6
19262.8	7.5°	18205.4	16251.3	14302.2	12387.1	10418.4	8517.9	7104.8	6515.2	6066.8	6130.2
19404.2	10°	17976.4	15330.4	12275.0	9351.2	6715.0	4838.9	3864.3	3503.7	3303.9	3308.7
19613.7	12.5°	17801.0	14229.1	9921.4	6339.7	4088.4	3089.5	2787.3	2699.6	2641.1	2646.0
19930.4	15°	17713.2	12932.9	7597.0	4224.9	2923.8	2616.8	2543.7	2504.7	2465.7	2460.8
20281.3	17.5°	17567.0	11490.5	5560.1	3084.6	2558.3	2451.1	2387.8	2343.9	2295.2	2285.4
20583.4	20°	17347.8	9853.1	4064.1	2607.0	2397.5	2314.7	2226.9	2168.5	2110.0	2100.2
20773.5	22.5°	16943.3	8123.2	3123.6	2412.1	2280.5	2188.0	2080.8	2012.5	1954.1	1944.3
20680.9	25°	16192.9	6500.5	2631.4	2290.3	2178.2	2066.1	1949.2	1856.6	1803.0	1793.3
20481.1	27.5°	15242.6	5106.9	2387.8	2178.2	2046.6	1944.3	1812.7	1725.0	1676.3	1666.6
20217.9	30°	14121.9	3932.5	2246.4	2051.5	1890.7	1803.0	1686.0	1613.0	1583.7	1583.7
20032.8	32.5°	12913.4	3143.1	2188.0	1924.8	1754.3	1656.8	1564.2	1535.0	1525.2	1520.4
20135.1	35°	11778.0	2728.9	2158.7	1822.5	1632.4	1539.9	1500.9	1505.7	1525.2	1525.2
20451.8	37.5°	10769.3	2597.3	2144.1	1749.4	1525.2	1442.4	1466.8	1510.6	1491.1	1491.1
21007.4	40°	9858.0	2611.9	2134.4	1695.8	1437.5	1388.8	1437.5	1403.4	1354.7	1349.8
21684.7	42.5°	9161.2	2733.7	2114.9	1651.9	1383.9	1349.8	1330.3	1276.7	1271.8	1281.6
22386.4	45°	8654.4	2840.9	2110.0	1632.4	1325.4	1262.1	1237.7	1184.1	1281.6	1306.0
22673.9	47.5°	8055.0	2840.9	2110.0	1564.2	1228.0	1203.6	1164.6	1106.2	1203.6	1228.0
22401.0	50°	7280.2	2660.6	2027.2	1486.3	1150.0	1135.4	1067.2	994.1	974.6	989.2
21762.7	52.5°	6300.7	2334.2	1817.6	1379.0	1072.1	1042.8	960.0	906.4	891.8	891.8
20617.5	55°	5184.8	1954.1	1535.0	1223.1	989.2	935.6	877.1	852.8	838.2	828.4
19014.3	57.5°	4215.1	1603.2	1232.9	1086.7	911.2	843.0	823.5	794.3	769.9	755.3
17674.3	60°	3459.8	1262.1	1018.5	964.8	833.3	769.9	765.1	726.1	662.7	653.0
16568.1	62.5°	2670.4	925.9	857.6	838.2	755.3	701.7	692.0	614.0	516.5	497.0
14999.0	65°	1885.8	721.2	692.0	735.8	672.5	623.7	599.4	482.4	380.1	365.5
12552.8	67.5°	1325.4	604.2	545.8	643.2	584.8	521.4	506.8	409.3	316.7	307.0
9492.5	70°	945.4	492.2	448.3	550.6	467.8	458.1	428.8	341.1	258.3	248.5
4697.5	72.5°	667.6	375.2	346.0	477.6	321.6	394.7	350.9	263.1	194.9	185.2
1598.3	75°	492.2	268.0	243.6	277.8	233.9	297.3	248.5	175.4	121.8	117.0
721.2	77.5°	360.6	170.6	146.2	136.4	136.4	185.2	136.4	73.1	53.6	48.7
365.5	80°	253.4	78.0	68.2	58.5	53.6	43.9	19.5	9.7	4.9	4.9
126.7	82.5°	151.1	34.1	34.1	24.4	14.6	0.0	0.0	0.0	0.0	0.0
48.7	85°	34.1	14.6	14.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
19.5	87.5°	4.9	4.9	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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