

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: P953211

Luminaire Tested: **GALN-SB6D-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953211  
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-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

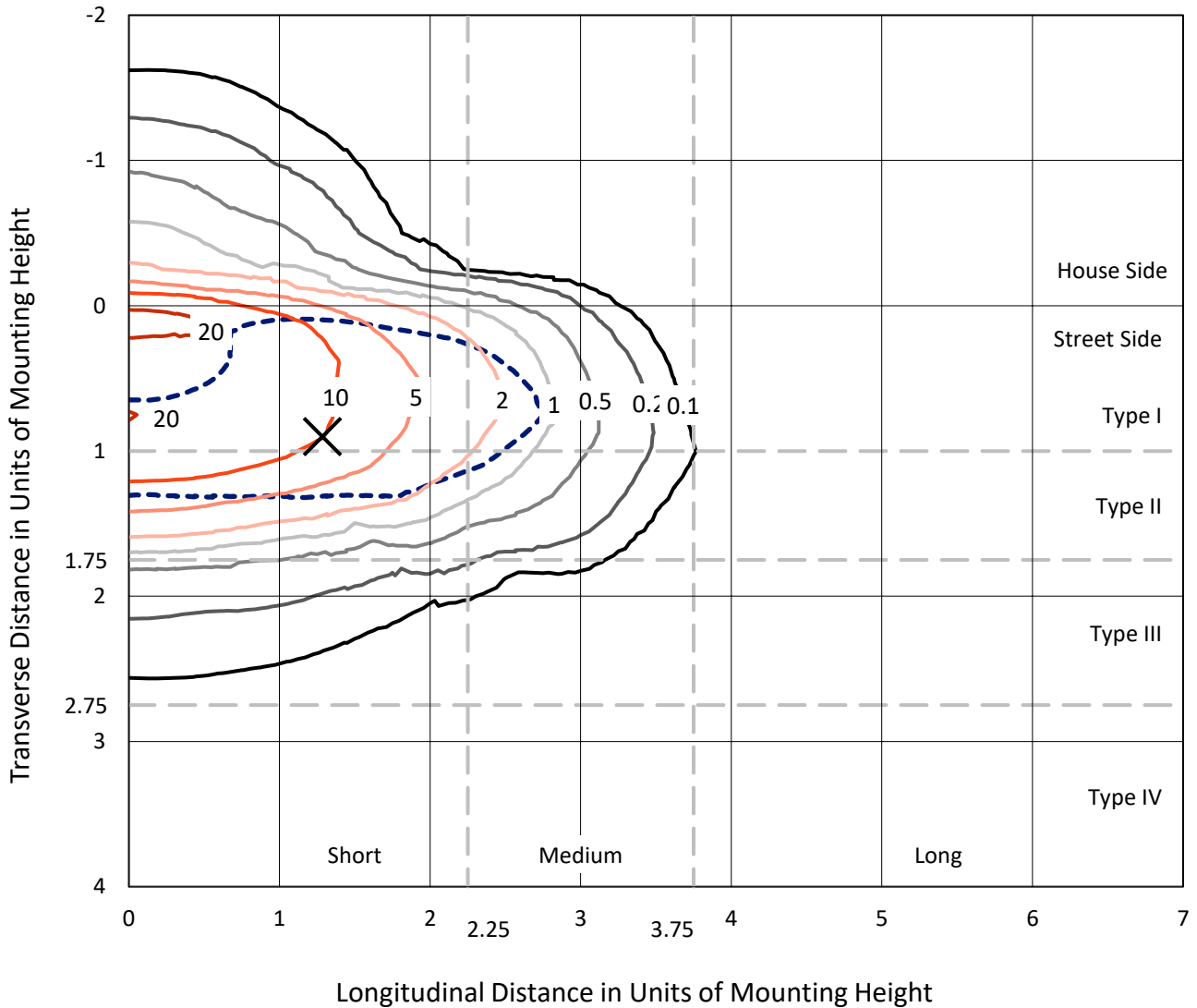
Lumens per Lamp: N/A  
Luminaire Lumens: 47276 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

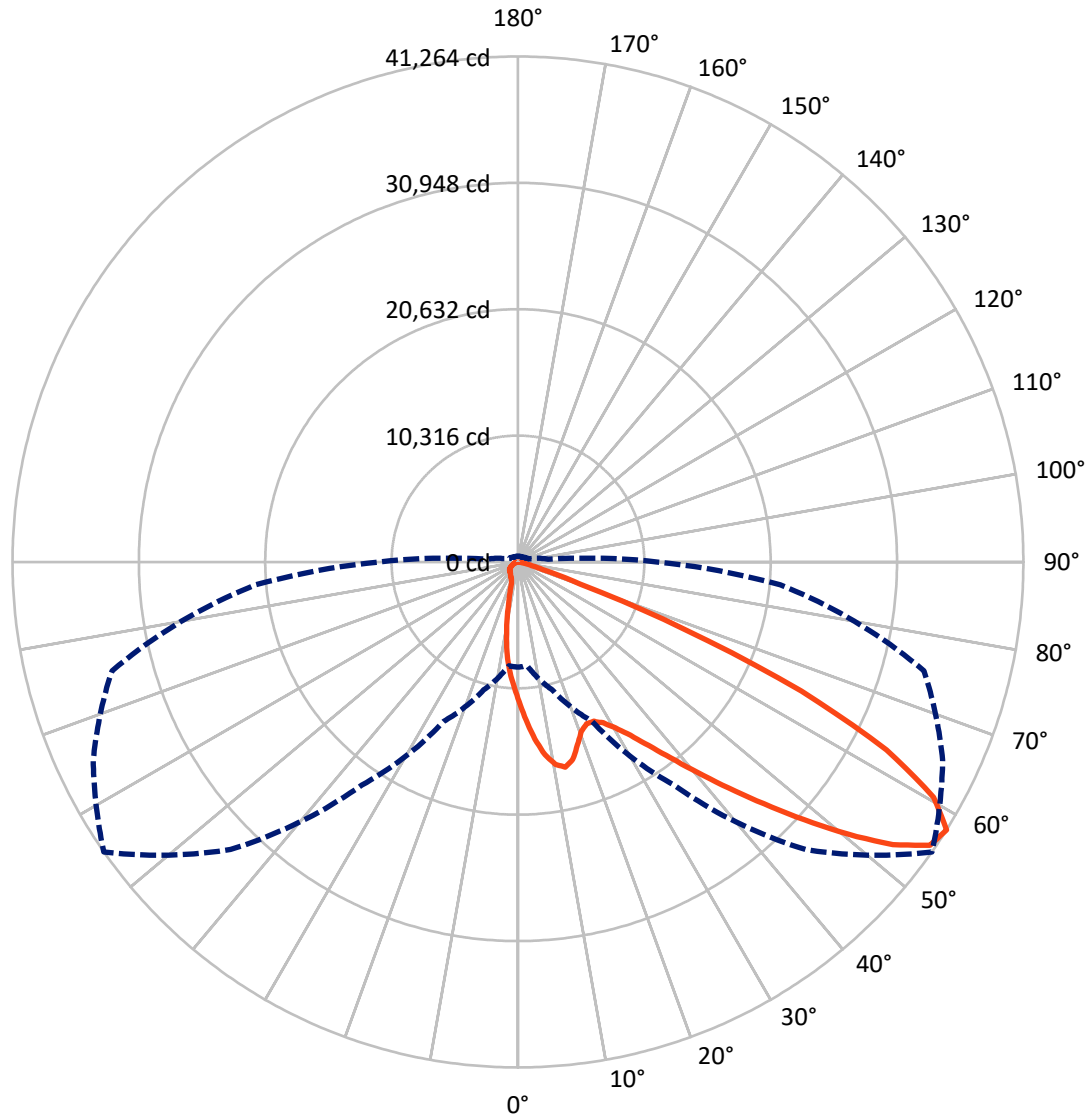
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 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	3692.1	0.0	3692.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	43583.9	0.0	43583.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	47276.0	0.0	47276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.0	2.2
10°-20°	2560.4	5.4
20°-30°	4096.6	8.7
30°-40°	6933.8	14.7
40°-50°	11383.9	24.1
50°-60°	12511.7	26.5
60°-70°	7176.7	15.2
70°-80°	1466.4	3.1
80°-90°	86.5	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°	47276.0	100.0
0°-180°	47276.0	100.0

**Coefficient of Utilization**



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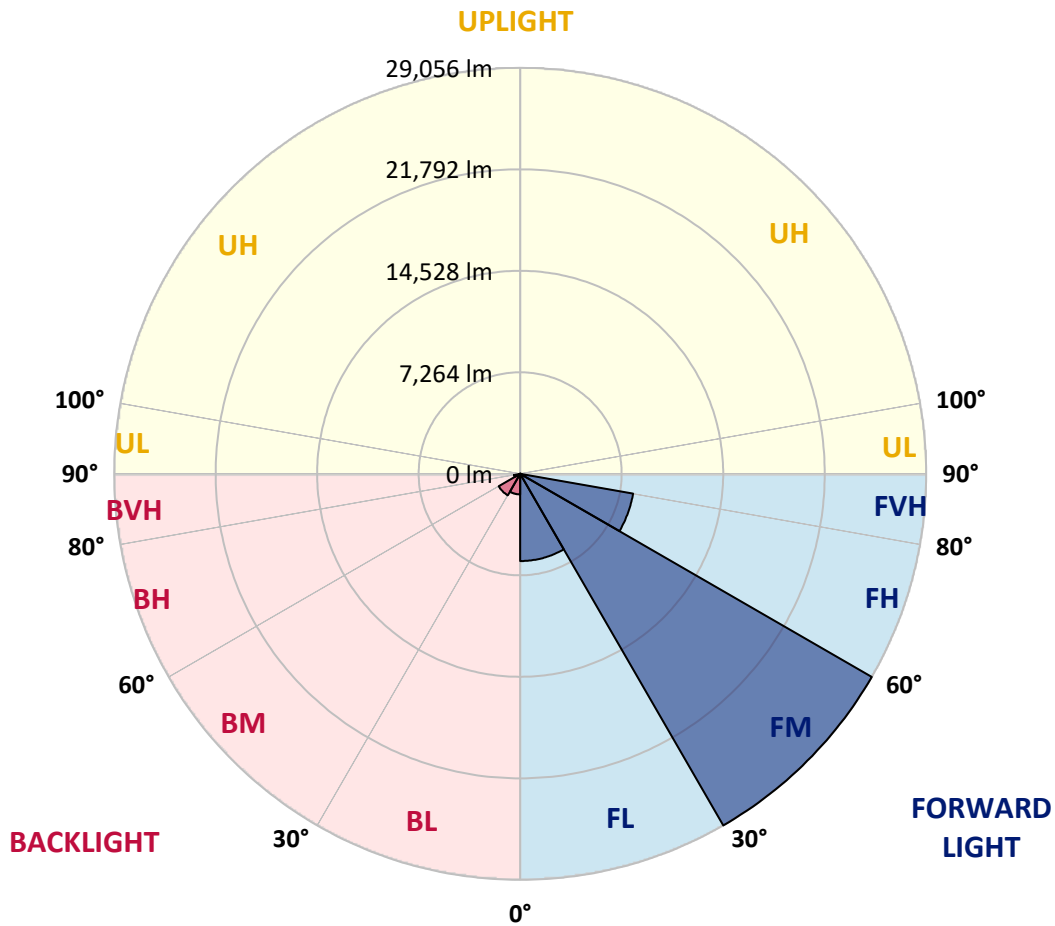
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6243.1	13.2			
FM (30°-60°)	29056.2	61.5			
FH (60°-80°)	8204.0	17.4			G4/12000
FVH (80°-90°)	80.7	0.2			G1/100
BL (0°-30°)	1474.0	3.1	B3/2500		
BM (30°-60°)	1773.2	3.8	B2/2500		
BH (60°-80°)	439.1	0.9	B1/500		G1/500
BVH (80°-90°)	5.8	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4
2.5°	14135.5	13957.7	13931.4	13896.5	13558.3	13304.7	12937.4	12535.1	12083.2	11622.6
5°	16330.6	16190.7	16164.4	16001.2	15616.4	15184.9	14532.0	13707.0	12864.5	11873.3
7.5°	16756.2	16730.0	16849.5	16843.7	16791.2	16450.1	15899.2	14916.8	13651.6	12182.4
10°	14858.4	14925.5	15281.1	15593.1	16435.5	16925.3	16805.8	15995.4	14462.0	12535.1
12.5°	13129.8	13051.1	13304.7	13657.4	14636.9	16094.5	17181.8	16896.1	15389.0	12934.5
15°	12045.3	12013.3	12156.1	12319.4	13065.6	14534.9	16744.5	17627.8	16281.0	13406.7
17.5°	11698.4	11672.2	11715.9	11756.7	12240.7	13377.6	15703.8	18076.8	17135.2	13946.0
20°	11981.2	11946.2	11940.4	11908.3	12109.5	12884.9	14762.2	18108.8	17901.8	14435.8
22.5°	12806.2	12765.4	12622.5	12494.3	12511.8	12951.9	14342.5	17788.2	18479.0	14893.4
25°	14301.7	14234.6	13937.3	13505.8	13231.8	13418.4	14406.6	17365.5	19030.0	15252.0
27.5°	16173.2	16085.7	15703.8	15062.5	14435.8	14208.4	14870.1	17074.0	19487.7	15526.0
30°	18006.8	17893.1	17517.1	17018.6	16103.2	15386.1	15706.8	17202.2	20032.8	15811.7
32.5°	19986.2	19878.3	19379.8	18761.8	18003.9	17039.0	16852.4	17829.0	20700.4	16211.1
35°	22490.3	22321.2	21612.8	20770.3	19965.8	18989.2	18403.3	18910.5	21589.5	16820.3
37.5°	25341.3	25113.9	24350.1	23187.0	22137.5	21044.4	20292.3	20397.2	22892.6	17636.6
40°	28029.0	27822.1	27116.6	26020.5	24702.9	23376.5	22574.8	22341.6	24691.2	18630.6
42.5°	29641.1	29454.5	29157.2	28693.7	27583.0	26230.4	25218.8	24714.5	26819.2	19820.0
45°	29731.5	29568.2	29967.6	30506.9	30288.3	29387.5	28154.4	27230.3	28956.0	20936.5
47.5°	28285.6	28174.8	29387.5	31270.7	32209.3	32588.3	31451.4	29536.2	30719.7	21738.2
50°	24344.3	24303.5	26798.8	30256.2	32941.0	35392.7	34929.2	31681.7	32086.9	22152.1
52.5°	21108.5	20959.8	22414.5	27008.7	31877.0	36867.7	38328.2	33786.4	33043.1	22230.8
55°	16009.9	15878.7	17703.6	21574.9	28445.9	36343.0	40814.8	35958.2	33728.1	22029.7
57.5°	8588.0	8506.4	10812.2	14360.0	22236.7	33194.7	41263.7	38255.3	34305.3	21496.2
60°	3343.7	3329.1	4192.0	6967.2	13514.6	27005.8	38998.7	39634.2	34666.8	20840.3
62.5°	2023.1	2066.8	2206.8	3127.9	5970.2	16776.6	33777.7	38065.8	34908.8	20239.8
65°	1673.3	1676.2	1693.7	2148.5	2859.7	7019.6	25428.7	32906.1	34311.1	19169.9
67.5°	1434.2	1460.5	1527.5	1705.4	2017.3	3078.4	14639.8	25489.9	30676.0	16680.4
70°	1131.1	1166.1	1250.6	1402.2	1556.7	1926.9	5410.5	16960.3	23434.8	12573.0
72.5°	953.2	950.3	994.1	1139.8	1236.0	1355.5	2081.4	9503.3	13619.5	6002.3
75°	737.5	766.7	822.1	953.2	1011.6	982.4	1128.2	3471.9	4879.9	1819.0
77.5°	577.2	600.5	650.1	778.3	836.6	696.7	650.1	1241.8	1568.3	653.0
80°	259.4	279.9	443.1	574.3	682.1	481.0	352.7	635.5	696.7	297.3
82.5°	46.6	78.7	259.4	303.2	349.8	311.9	183.7	329.4	341.1	119.5
85°	2.9	5.8	90.4	110.8	139.9	102.0	55.4	131.2	113.7	40.8
87.5°	0.0	0.0	0.0	2.9	2.9	14.6	17.5	23.3	17.5	14.6
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°
11392.4	0°	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4	11392.4
11418.6	2.5°	11208.7	10794.7	10392.5	10063.0	9870.6	9544.2	9328.4	9293.5	9203.1	9281.8
11447.7	5°	10993.0	10252.5	9503.3	8832.9	8281.9	7570.6	7040.1	6815.6	6620.3	6687.3
11523.5	7.5°	10890.9	9722.0	8555.9	7410.3	6232.6	5095.7	4250.3	3897.5	3629.3	3667.2
11608.1	10°	10753.9	9171.0	7343.2	5594.1	4017.1	2894.7	2311.7	2096.0	1976.5	1979.4
11733.4	12.5°	10649.0	8512.2	5935.2	3792.6	2445.8	1848.2	1667.5	1615.0	1580.0	1582.9
11922.9	15°	10596.5	7736.8	4544.7	2527.4	1749.1	1565.4	1521.7	1498.4	1475.1	1472.1
12132.8	17.5°	10509.1	6873.9	3326.2	1845.3	1530.4	1466.3	1428.4	1402.2	1373.0	1367.2
12313.5	20°	10377.9	5894.4	2431.2	1559.6	1434.2	1384.7	1332.2	1297.2	1262.3	1256.4
12427.2	22.5°	10135.9	4859.5	1868.6	1443.0	1364.3	1308.9	1244.8	1204.0	1169.0	1163.1
12371.8	25°	9687.0	3888.8	1574.2	1370.1	1303.1	1236.0	1166.1	1110.7	1078.6	1072.8
12252.3	27.5°	9118.5	3055.1	1428.4	1303.1	1224.4	1163.1	1084.4	1032.0	1002.8	997.0
12094.9	30°	8448.1	2352.5	1343.9	1227.3	1131.1	1078.6	1008.6	964.9	947.4	947.4
11984.1	32.5°	7725.1	1880.3	1308.9	1151.5	1049.4	991.1	935.8	918.3	912.4	909.5
12045.3	35°	7045.9	1632.5	1291.4	1090.3	976.6	921.2	897.9	900.8	912.4	912.4
12234.8	37.5°	6442.5	1553.8	1282.7	1046.5	912.4	862.9	877.5	903.7	892.0	892.0
12567.2	40°	5897.3	1562.5	1276.8	1014.5	860.0	830.8	860.0	839.6	810.4	807.5
12972.4	42.5°	5480.5	1635.4	1265.2	988.2	827.9	807.5	795.8	763.8	760.9	766.7
13392.1	45°	5177.3	1699.5	1262.3	976.6	792.9	755.0	740.4	708.4	766.7	781.3
13564.1	47.5°	4818.7	1699.5	1262.3	935.8	734.6	720.0	696.7	661.7	720.0	734.6
13400.9	50°	4355.2	1591.7	1212.7	889.1	688.0	679.2	638.4	594.7	583.0	591.8
13019.0	52.5°	3769.3	1396.4	1087.3	825.0	641.3	623.8	574.3	542.2	533.5	533.5
12333.9	55°	3101.7	1169.0	918.3	731.7	591.8	559.7	524.7	510.1	501.4	495.6
11374.9	57.5°	2521.6	959.1	737.5	650.1	545.1	504.3	492.7	475.2	460.6	451.8
10573.2	60°	2069.7	755.0	609.3	577.2	498.5	460.6	457.7	434.4	396.5	390.6
9911.5	62.5°	1597.5	553.9	513.1	501.4	451.8	419.8	413.9	367.3	309.0	297.3
8972.8	65°	1128.2	431.4	413.9	440.2	402.3	373.1	358.6	288.6	227.4	218.6
7509.4	67.5°	792.9	361.5	326.5	384.8	349.8	311.9	303.2	244.9	189.5	183.7
5678.7	70°	565.5	294.4	268.2	329.4	279.9	274.0	256.5	204.1	154.5	148.7
2810.2	72.5°	399.4	224.5	207.0	285.7	192.4	236.1	209.9	157.4	116.6	110.8
956.2	75°	294.4	160.3	145.8	166.2	139.9	177.8	148.7	104.9	72.9	70.0
431.4	77.5°	215.7	102.0	87.5	81.6	81.6	110.8	81.6	43.7	32.1	29.2
218.6	80°	151.6	46.6	40.8	35.0	32.1	26.2	11.7	5.8	2.9	2.9
75.8	82.5°	90.4	20.4	20.4	14.6	8.7	0.0	0.0	0.0	0.0	0.0
29.2	85°	20.4	8.7	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
11.7	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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