

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: P951867

Luminaire Tested: **GALN-SB5D-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951867  
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-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

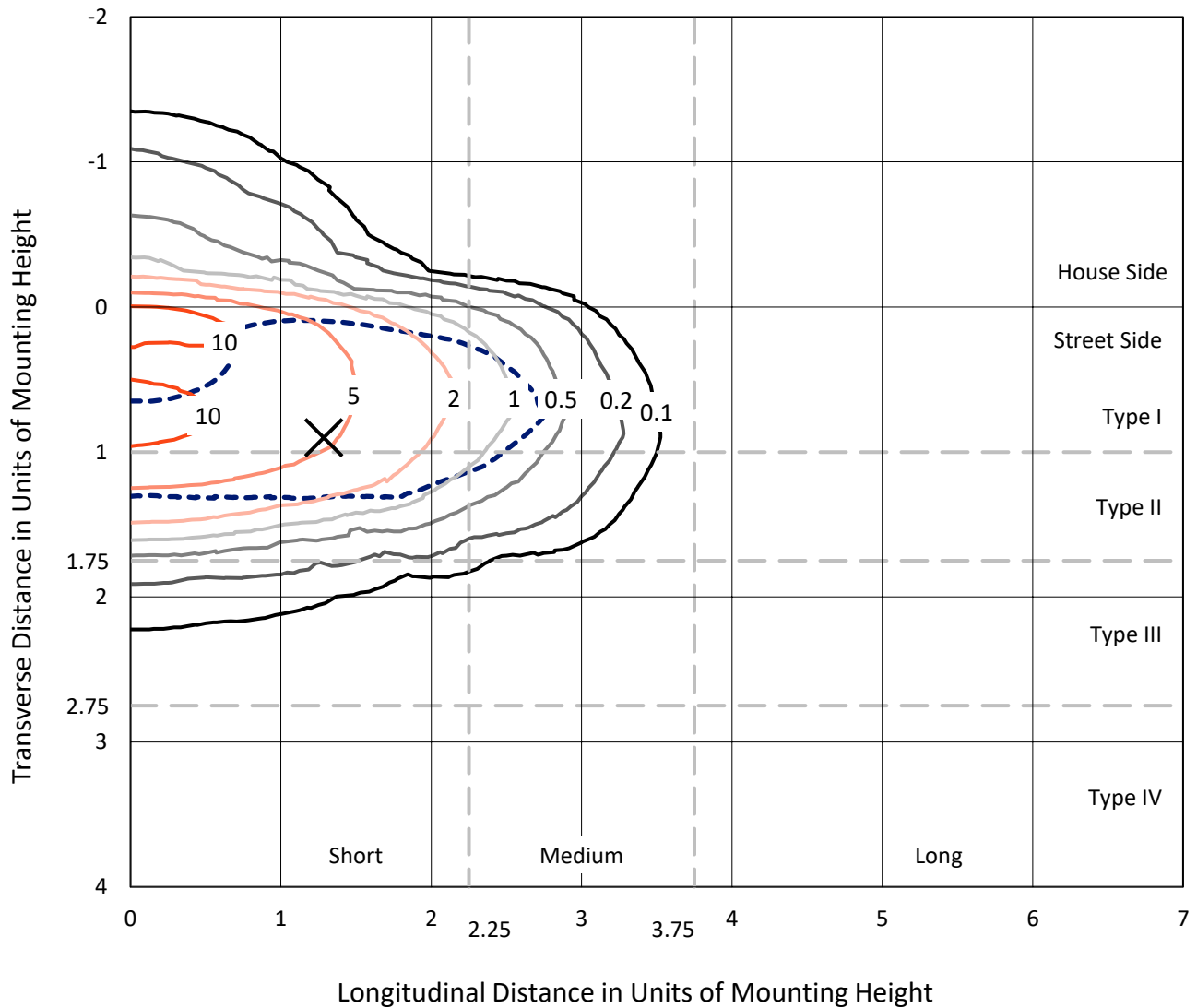
Lumens per Lamp: N/A  
Luminaire Lumens: 26678 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

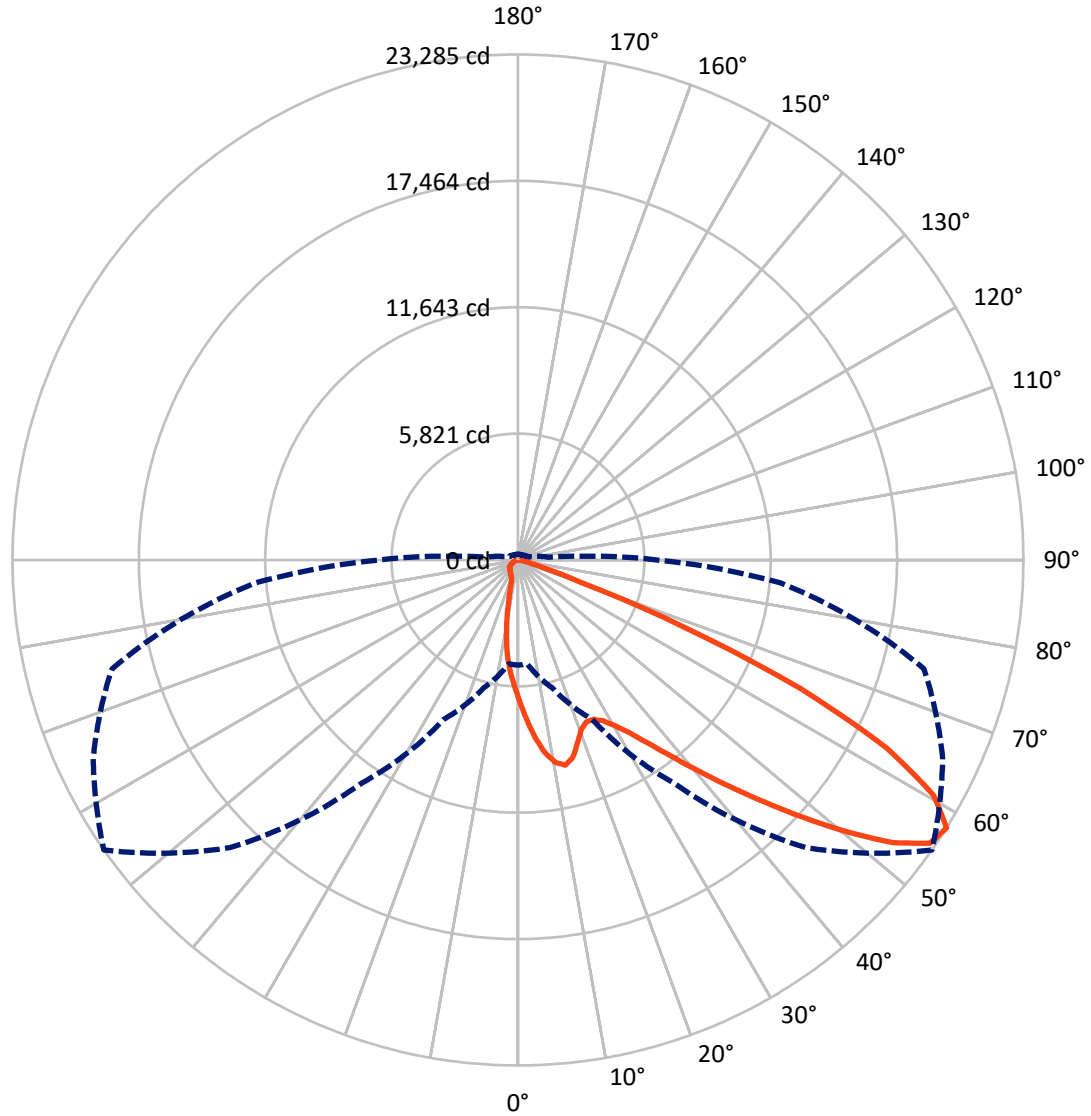
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	2083.4	0.0	2083.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	24594.6	0.0	24594.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	26678.0	0.0	26678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	598.2	2.2
10°-20°	1444.9	5.4
20°-30°	2311.7	8.7
30°-40°	3912.8	14.7
40°-50°	6423.9	24.1
50°-60°	7060.4	26.5
60°-70°	4049.8	15.2
70°-80°	827.5	3.1
80°-90°	48.8	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°	26678.0	100.0
0°-180°	26678.0	100.0

**Coefficient of Utilization**



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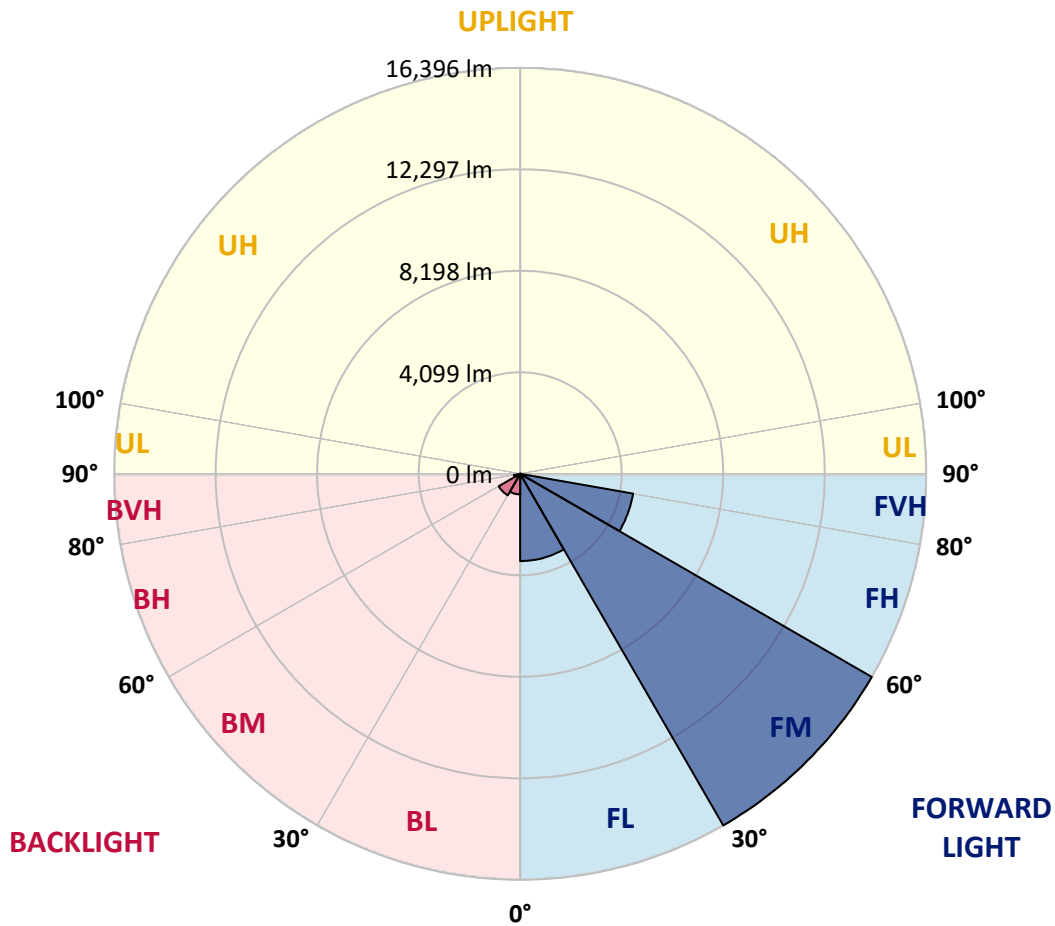
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.0	13.2			
FM (30°-60°)	16396.5	61.5			
FH (60°-80°)	4629.6	17.4			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	831.8	3.1	B2/1000		
BM (30°-60°)	1000.6	3.8	B2/2500		
BH (60°-80°)	247.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7
2.5°	7976.7	7876.4	7861.6	7841.8	7651.0	7507.9	7300.6	7073.6	6818.6	6558.7
5°	9215.4	9136.4	9121.6	9029.5	8812.4	8568.9	8200.4	7734.9	7259.5	6700.2
7.5°	9455.6	9440.8	9508.2	9504.9	9475.3	9282.9	8971.9	8417.6	7703.6	6874.5
10°	8384.7	8422.5	8623.2	8799.2	9274.6	9551.0	9483.5	9026.2	8160.9	7073.6
12.5°	7409.2	7364.8	7507.9	7706.9	8259.6	9082.2	9695.8	9534.5	8684.1	7299.0
15°	6797.2	6779.1	6859.7	6951.9	7373.0	8202.1	9449.0	9947.4	9187.4	7565.4
17.5°	6601.5	6586.7	6611.3	6634.4	6907.4	7549.0	8861.7	10200.8	9669.4	7869.8
20°	6761.0	6741.3	6738.0	6719.9	6833.4	7271.0	8330.4	10218.9	10102.1	8146.1
22.5°	7226.6	7203.5	7122.9	7050.6	7060.4	7308.8	8093.5	10037.9	10427.8	8404.4
25°	8070.5	8032.6	7864.8	7621.4	7466.7	7572.0	8129.7	9799.4	10738.7	8606.7
27.5°	9126.6	9077.2	8861.7	8499.8	8146.1	8017.8	8391.3	9634.9	10997.0	8761.4
30°	10161.3	10097.1	9884.9	9603.6	9087.1	8682.4	8863.4	9707.3	11304.6	8922.6
32.5°	11278.3	11217.4	10936.1	10587.4	10159.6	9615.1	9509.9	10060.9	11681.3	9148.0
35°	12691.3	12595.9	12196.2	11720.8	11266.7	10715.7	10385.0	10671.2	12183.0	9491.8
37.5°	14300.2	14171.9	13740.9	13084.5	12492.3	11875.4	11451.0	11510.2	12918.3	9952.4
40°	15816.9	15700.1	15302.0	14683.5	13939.9	13191.4	12739.0	12607.4	13933.3	10513.3
42.5°	16726.6	16621.3	16453.5	16191.9	15565.2	14801.9	14231.1	13946.5	15134.2	11184.5
45°	16777.6	16685.4	16910.8	17215.1	17091.8	16583.5	15887.6	15366.1	16340.0	11814.5
47.5°	15961.6	15899.1	16583.5	17646.1	18175.8	18389.7	17748.1	16667.3	17335.2	12266.9
50°	13737.6	13714.5	15122.7	17073.7	18588.7	19972.2	19710.6	17878.1	18106.7	12500.5
52.5°	11911.6	11827.7	12648.6	15241.1	17988.3	20804.6	21628.7	19065.8	18646.3	12544.9
55°	9034.5	8960.4	9990.2	12174.8	16052.1	20508.5	23031.9	20291.3	19032.9	12431.4
57.5°	4846.2	4800.2	6101.4	8103.4	12548.2	18731.8	23285.3	21587.6	19358.6	12130.4
60°	1886.8	1878.6	2365.5	3931.6	7626.3	15239.5	22007.1	22365.7	19562.6	11760.3
62.5°	1141.6	1166.3	1245.3	1765.1	3369.0	9467.1	19060.9	21480.7	19699.1	11421.4
65°	944.2	945.9	955.8	1212.4	1613.8	3961.2	14349.5	18569.0	19361.9	10817.7
67.5°	809.4	824.2	862.0	962.3	1138.4	1737.1	8261.3	14384.1	17310.6	9412.8
70°	638.3	658.0	705.7	791.3	878.4	1087.4	3053.2	9570.7	13224.3	7095.0
72.5°	537.9	536.3	561.0	643.2	697.5	764.9	1174.5	5362.8	7685.5	3387.1
75°	416.2	432.6	463.9	537.9	570.8	554.4	636.6	1959.2	2753.8	1026.5
77.5°	325.7	338.9	366.8	439.2	472.1	393.2	366.8	700.8	885.0	368.5
80°	146.4	157.9	250.0	324.1	384.9	271.4	199.0	358.6	393.2	167.8
82.5°	26.3	44.4	146.4	171.1	197.4	176.0	103.6	185.9	192.5	67.4
85°	1.6	3.3	51.0	62.5	79.0	57.6	31.3	74.0	64.2	23.0
87.5°	0.0	0.0	0.0	1.6	1.6	8.2	9.9	13.2	9.9	8.2
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°
6428.7	0°	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7	6428.7
6443.5	2.5°	6325.1	6091.5	5864.5	5678.6	5570.0	5385.8	5264.1	5244.3	5193.3	5237.7
6460.0	5°	6203.4	5785.5	5362.8	4984.4	4673.5	4272.1	3972.7	3846.1	3735.8	3773.7
6502.8	7.5°	6145.8	5486.1	4828.1	4181.6	3517.1	2875.5	2398.4	2199.4	2048.1	2069.4
6550.5	10°	6068.5	5175.2	4143.8	3156.8	2266.8	1633.5	1304.5	1182.8	1115.3	1117.0
6621.2	12.5°	6009.3	4803.5	3349.3	2140.2	1380.2	1042.9	941.0	911.3	891.6	893.2
6728.1	15°	5979.6	4365.9	2564.6	1426.2	987.0	883.4	858.7	845.5	832.4	830.7
6846.6	17.5°	5930.3	3879.0	1877.0	1041.3	863.6	827.4	806.1	791.3	774.8	771.5
6948.6	20°	5856.3	3326.2	1371.9	880.1	809.4	781.4	751.8	732.0	712.3	709.0
7012.7	22.5°	5719.7	2742.2	1054.5	814.3	769.9	738.6	702.4	679.4	659.7	656.4
6981.5	25°	5466.4	2194.5	888.3	773.2	735.3	697.5	658.0	626.8	608.7	605.4
6914.0	27.5°	5145.6	1724.0	806.1	735.3	690.9	656.4	611.9	582.3	565.9	562.6
6825.2	30°	4767.3	1327.5	758.4	692.6	638.3	608.7	569.2	544.5	534.6	534.6
6762.7	32.5°	4359.3	1061.0	738.6	649.8	592.2	559.3	528.1	518.2	514.9	513.2
6797.2	35°	3976.0	921.2	728.7	615.2	551.1	519.8	506.7	508.3	514.9	514.9
6904.2	37.5°	3635.5	876.8	723.8	590.6	514.9	486.9	495.2	510.0	503.4	503.4
7091.7	40°	3327.9	881.7	720.5	572.5	485.3	468.8	485.3	473.8	457.3	455.7
7320.3	42.5°	3092.6	922.9	713.9	557.7	467.2	455.7	449.1	431.0	429.4	432.6
7557.2	45°	2921.6	959.0	712.3	551.1	447.4	426.1	417.8	399.7	432.6	440.9
7654.3	47.5°	2719.2	959.0	712.3	528.1	414.5	406.3	393.2	373.4	406.3	414.5
7562.2	50°	2457.7	898.2	684.3	501.7	388.2	383.3	360.3	335.6	329.0	333.9
7346.7	52.5°	2127.0	788.0	613.6	465.5	361.9	352.0	324.1	306.0	301.0	301.0
6960.1	55°	1750.3	659.7	518.2	412.9	333.9	315.8	296.1	287.9	282.9	279.7
6418.9	57.5°	1422.9	541.2	416.2	366.8	307.6	284.6	278.0	268.1	259.9	255.0
5966.5	60°	1168.0	426.1	343.8	325.7	281.3	259.9	258.3	245.1	223.7	220.4
5593.1	62.5°	901.5	312.6	289.5	282.9	255.0	236.9	233.6	207.3	174.4	167.8
5063.4	65°	636.6	243.5	233.6	248.4	227.0	210.6	202.3	162.9	128.3	123.4
4237.6	67.5°	447.4	204.0	184.2	217.1	197.4	176.0	171.1	138.2	106.9	103.6
3204.5	70°	319.1	166.1	151.3	185.9	157.9	154.6	144.8	115.2	87.2	83.9
1585.8	72.5°	225.4	126.7	116.8	161.2	108.6	133.2	118.4	88.8	65.8	62.5
539.6	75°	166.1	90.5	82.3	93.8	79.0	100.3	83.9	59.2	41.1	39.5
243.5	77.5°	121.7	57.6	49.4	46.1	46.1	62.5	46.1	24.7	18.1	16.5
123.4	80°	85.5	26.3	23.0	19.7	18.1	14.8	6.6	3.3	1.6	1.6
42.8	82.5°	51.0	11.5	11.5	8.2	4.9	0.0	0.0	0.0	0.0	0.0
16.5	85°	11.5	4.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	1.6	1.6	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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