

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: P951678

Luminaire Tested: **GALN-SB5D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951678
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 43828 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

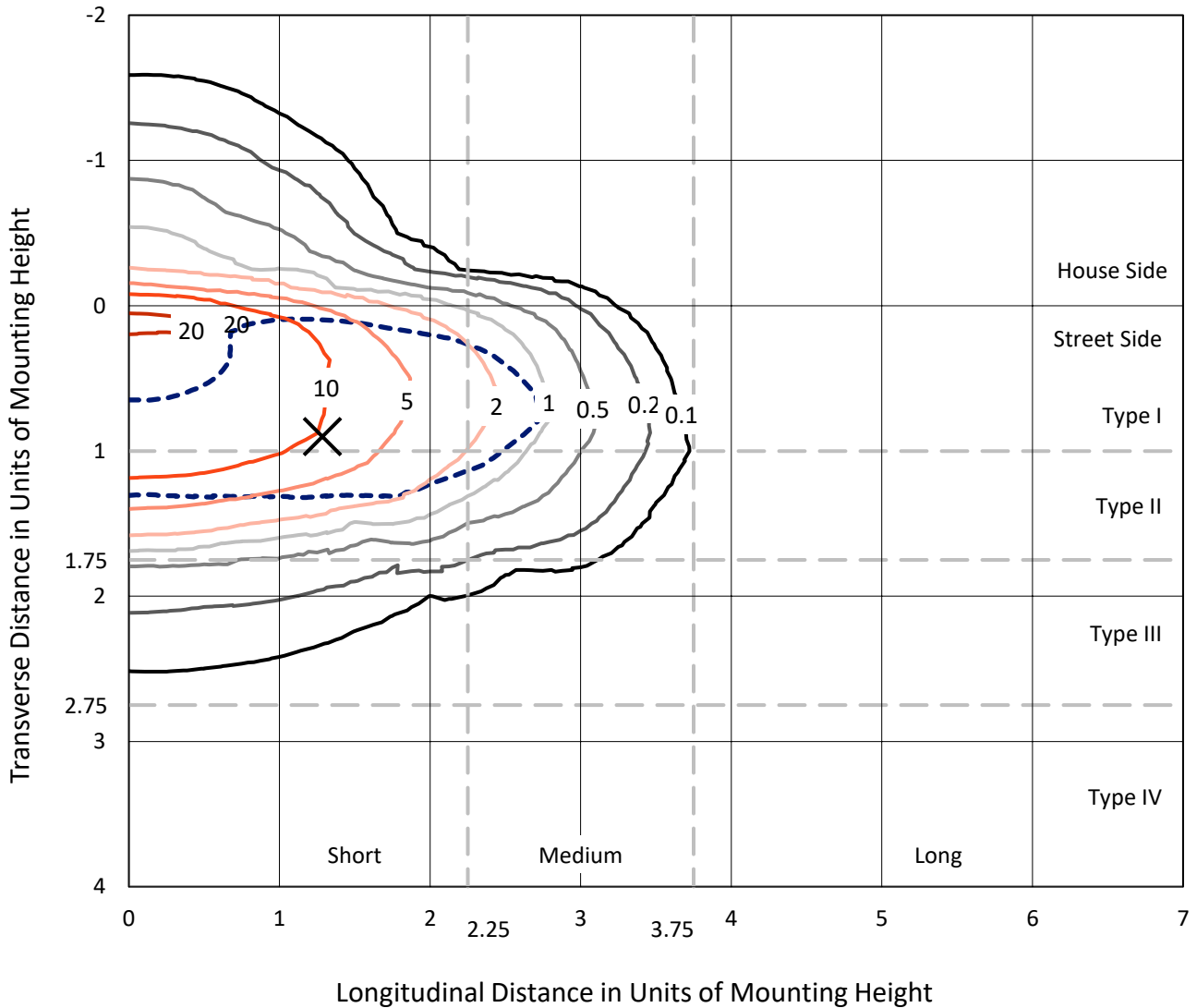
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

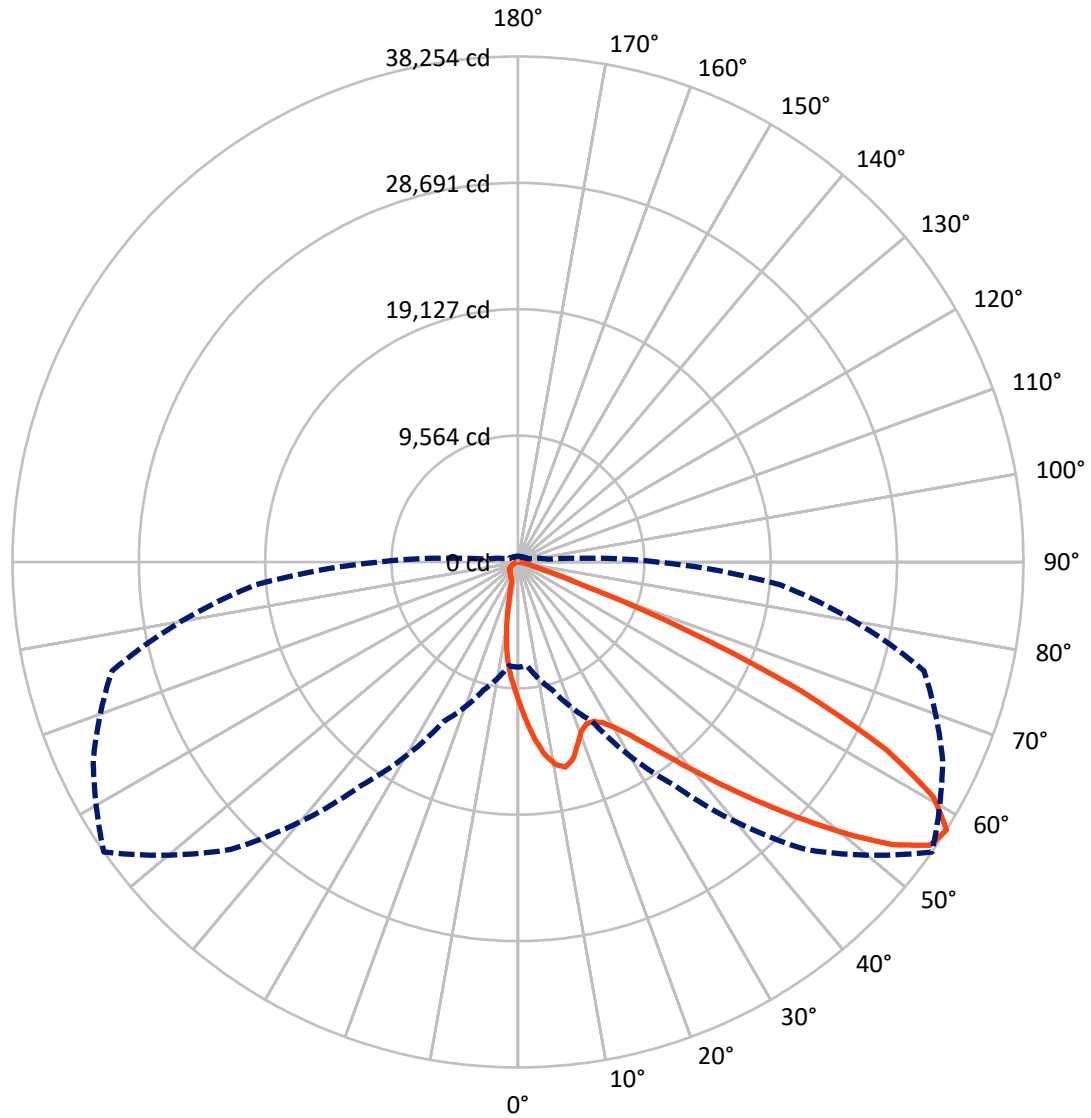
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 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	3422.8	0.0	3422.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	40405.2	0.0	40405.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	43828.0	0.0	43828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.7	2.2
10°-20°	2373.7	5.4
20°-30°	3797.9	8.7
30°-40°	6428.1	14.7
40°-50°	10553.6	24.1
50°-60°	11599.1	26.5
60°-70°	6653.3	15.2
70°-80°	1359.5	3.1
80°-90°	80.2	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°	43828.0	100.0
0°-180°	43828.0	100.0

Coefficient of Utilization



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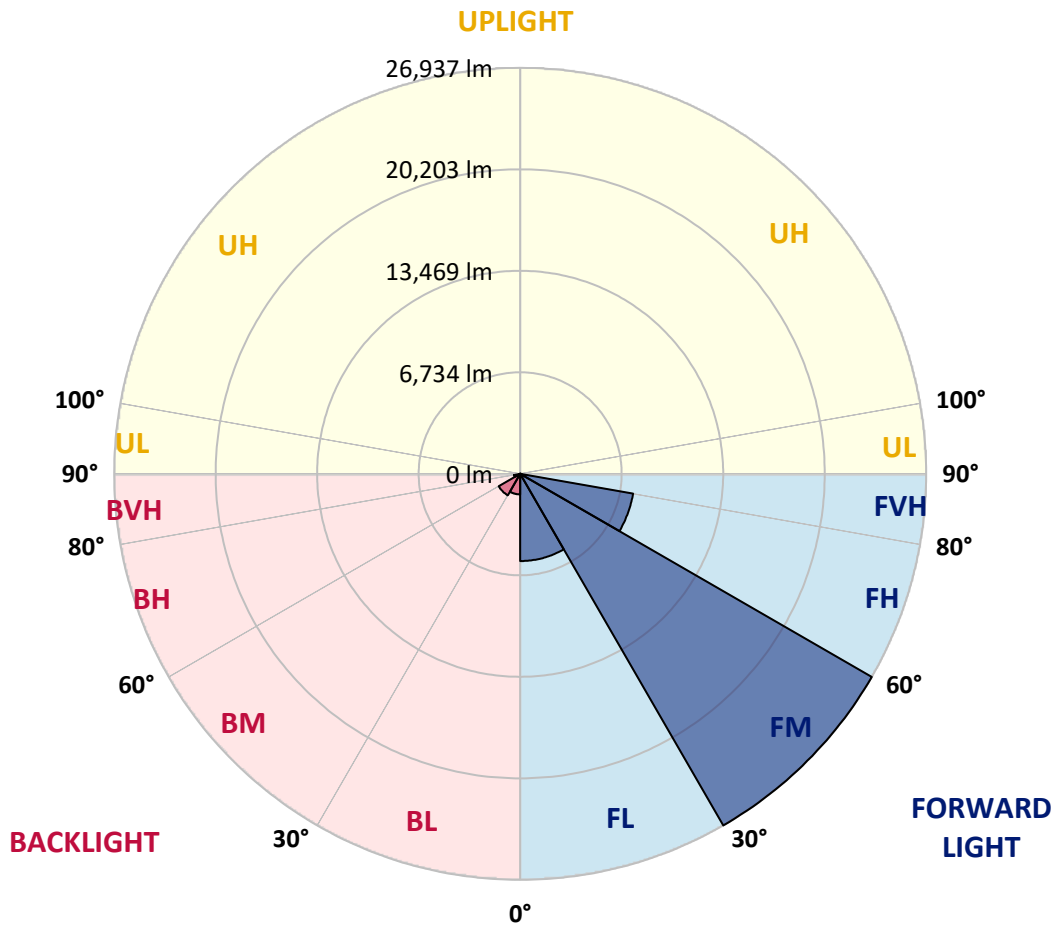
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5787.8	13.2			
FM (30°-60°)	26937.0	61.5			
FH (60°-80°)	7605.7	17.4			G4/12000
FVH (80°-90°)	74.8	0.2			G1/100
BL (0°-30°)	1366.5	3.1	B3/2500		
BM (30°-60°)	1643.8	3.8	B2/2500		
BH (60°-80°)	407.1	0.9	B1/500		G1/500
BVH (80°-90°)	5.4	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°	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5
2.5°	13104.5	12939.7	12915.4	12882.9	12569.4	12334.3	11993.8	11620.9	11202.0	10775.0
5°	15139.5	15009.8	14985.5	14834.2	14477.4	14077.5	13472.1	12707.3	11926.2	11007.4
7.5°	15534.1	15509.8	15620.6	15615.2	15566.5	15250.3	14739.6	13828.8	12655.9	11293.9
10°	13774.8	13836.9	14166.6	14455.8	15236.8	15690.9	15580.1	14828.8	13407.2	11620.9
12.5°	12172.2	12099.2	12334.3	12661.3	13569.4	14920.6	15928.7	15663.8	14266.6	11991.1
15°	11166.8	11137.1	11269.5	11420.9	12112.7	13474.8	15523.3	16342.2	15093.6	12428.9
17.5°	10845.2	10820.9	10861.4	10899.3	11347.9	12401.9	14558.5	16758.4	15885.4	12928.9
20°	11107.4	11074.9	11069.5	11039.8	11226.3	11945.2	13685.6	16788.1	16596.2	13382.9
22.5°	11872.2	11834.4	11701.9	11583.0	11599.2	12007.3	13296.4	16490.8	17131.3	13807.2
25°	13258.6	13196.4	12920.8	12520.8	12266.8	12439.7	13355.9	16098.9	17642.1	14139.6
27.5°	14993.6	14912.5	14558.5	13963.9	13382.9	13172.1	13785.6	15828.7	18066.4	14393.6
30°	16693.5	16588.1	16239.5	15777.3	14928.7	14263.9	14561.2	15947.6	18571.8	14658.5
32.5°	18528.5	18428.5	17966.4	17393.5	16690.8	15796.3	15623.3	16528.6	19190.6	15028.7
35°	20850.0	20693.2	20036.5	19255.5	18509.6	17604.2	17061.0	17531.3	20014.9	15593.6
37.5°	23493.1	23282.3	22574.2	21495.9	20523.0	19509.5	18812.3	18909.6	21222.9	16350.3
40°	25984.8	25792.9	25138.9	24122.7	22901.2	21671.5	20928.4	20712.2	22890.4	17271.8
42.5°	27479.3	27306.3	27030.7	26601.0	25571.3	24317.3	23379.5	22912.0	24863.2	18374.5
45°	27563.1	27411.7	27782.0	28281.9	28079.2	27244.2	26101.0	25244.3	26844.2	19409.5
47.5°	26222.6	26119.9	27244.2	28990.0	29860.2	30211.5	29157.5	27382.0	28479.2	20152.7
50°	22568.8	22531.0	24844.3	28049.5	30538.5	32811.4	32381.7	29371.0	29746.7	20536.5
52.5°	19569.0	19431.2	20779.7	25038.9	29552.1	34178.8	35532.8	31322.3	30633.1	20609.5
55°	14842.3	14720.7	16412.4	20001.4	26371.2	33692.4	37838.1	33335.6	31268.2	20423.0
57.5°	7961.6	7886.0	10023.7	13312.6	20614.9	30773.7	38254.2	35465.2	31803.3	19928.4
60°	3099.8	3086.3	3886.2	6459.0	12528.9	25036.2	36154.4	36743.5	32138.4	19320.4
62.5°	1875.6	1916.1	2045.8	2899.8	5534.8	15553.0	31314.2	35289.6	32362.7	18763.6
65°	1551.2	1554.0	1570.2	1991.8	2651.2	6507.7	23574.1	30506.1	31808.7	17771.8
67.5°	1329.6	1354.0	1416.1	1581.0	1870.1	2853.9	13572.1	23630.9	28438.7	15463.8
70°	1048.6	1081.0	1159.4	1299.9	1443.1	1786.4	5015.9	15723.3	21725.6	11656.0
72.5°	883.7	881.0	921.6	1056.7	1145.9	1256.7	1929.6	8810.2	12626.2	5564.5
75°	683.7	710.8	762.1	883.7	937.8	910.8	1045.9	3218.7	4524.0	1686.4
77.5°	535.1	556.7	602.7	721.6	775.6	645.9	602.7	1151.3	1454.0	605.4
80°	240.5	259.4	410.8	532.4	632.4	445.9	327.0	589.2	645.9	275.7
82.5°	43.2	73.0	240.5	281.1	324.3	289.2	170.3	305.4	316.2	110.8
85°	2.7	5.4	83.8	102.7	129.7	94.6	51.3	121.6	105.4	37.8
87.5°	0.0	0.0	0.0	2.7	2.7	13.5	16.2	21.6	16.2	13.5
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°
10561.5	0°	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5	10561.5
10585.8	2.5°	10391.2	10007.5	9634.5	9329.1	9150.7	8848.1	8648.1	8615.6	8531.9	8604.8
10612.8	5°	10191.2	9504.8	8810.2	8188.7	7677.9	7018.5	6526.6	6318.5	6137.4	6199.6
10683.1	7.5°	10096.6	9012.9	7931.9	6869.8	5778.0	4724.0	3940.3	3613.3	3364.6	3399.8
10761.5	10°	9969.6	8502.1	6807.7	5186.1	3724.1	2683.6	2143.1	1943.1	1832.3	1835.0
10877.7	12.5°	9872.3	7891.4	5502.3	3516.0	2267.4	1713.4	1545.8	1497.2	1464.8	1467.5
11053.3	15°	9823.7	7172.5	4213.2	2343.1	1621.5	1451.3	1410.7	1389.1	1367.5	1364.8
11247.9	17.5°	9742.6	6372.6	3083.6	1710.7	1418.8	1359.4	1324.2	1299.9	1272.9	1267.5
11415.5	20°	9621.0	5464.5	2253.9	1445.9	1329.6	1283.7	1235.1	1202.6	1170.2	1164.8
11520.9	22.5°	9396.7	4505.1	1732.3	1337.7	1264.8	1213.4	1154.0	1116.1	1083.7	1078.3
11469.5	25°	8980.5	3605.2	1459.4	1270.2	1208.0	1145.9	1081.0	1029.7	999.9	994.5
11358.7	27.5°	8453.5	2832.2	1324.2	1208.0	1135.1	1078.3	1005.3	956.7	929.7	924.3
11212.8	30°	7831.9	2180.9	1245.9	1137.8	1048.6	999.9	935.1	894.5	878.3	878.3
11110.1	32.5°	7161.7	1743.1	1213.4	1067.5	972.9	918.9	867.5	851.3	845.9	843.2
11166.8	35°	6532.0	1513.4	1197.2	1010.7	905.3	854.0	832.4	835.1	845.9	845.9
11342.5	37.5°	5972.6	1440.4	1189.1	970.2	845.9	799.9	813.5	837.8	827.0	827.0
11650.6	40°	5467.2	1448.6	1183.7	940.5	797.2	770.2	797.2	778.3	751.3	748.6
12026.2	42.5°	5080.7	1516.1	1172.9	916.2	767.5	748.6	737.8	708.1	705.4	710.8
12415.4	45°	4799.7	1575.6	1170.2	905.3	735.1	700.0	686.4	656.7	710.8	724.3
12574.8	47.5°	4467.3	1575.6	1170.2	867.5	681.0	667.5	645.9	613.5	667.5	681.0
12423.5	50°	4037.6	1475.6	1124.3	824.3	637.8	629.7	591.9	551.3	540.5	548.6
12069.5	52.5°	3494.4	1294.5	1008.0	764.8	594.6	578.3	532.4	502.7	494.6	494.6
11434.4	55°	2875.5	1083.7	851.3	678.3	548.6	518.9	486.5	472.9	464.8	459.4
10545.3	57.5°	2337.7	889.1	683.7	602.7	505.4	467.5	456.7	440.5	427.0	418.9
9802.1	60°	1918.8	700.0	564.8	535.1	462.1	427.0	424.3	402.7	367.5	362.1
9188.6	62.5°	1481.0	513.5	475.6	464.8	418.9	389.2	383.8	340.5	286.5	275.7
8318.4	65°	1045.9	400.0	383.8	408.1	372.9	345.9	332.4	267.5	210.8	202.7
6961.7	67.5°	735.1	335.1	302.7	356.7	324.3	289.2	281.1	227.0	175.7	170.3
5264.5	70°	524.3	273.0	248.6	305.4	259.4	254.0	237.8	189.2	143.2	137.8
2605.2	72.5°	370.2	208.1	191.9	264.8	178.4	218.9	194.6	145.9	108.1	102.7
886.4	75°	273.0	148.6	135.1	154.0	129.7	164.9	137.8	97.3	67.6	64.9
400.0	77.5°	200.0	94.6	81.1	75.7	75.7	102.7	75.7	40.5	29.7	27.0
202.7	80°	140.5	43.2	37.8	32.4	29.7	24.3	10.8	5.4	2.7	2.7
70.3	82.5°	83.8	18.9	18.9	13.5	8.1	0.0	0.0	0.0	0.0	0.0
27.0	85°	18.9	8.1	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	2.7	2.7	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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