

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: P948822

Luminaire Tested: **GALN-SB3D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948822
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-SB3D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 26032 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

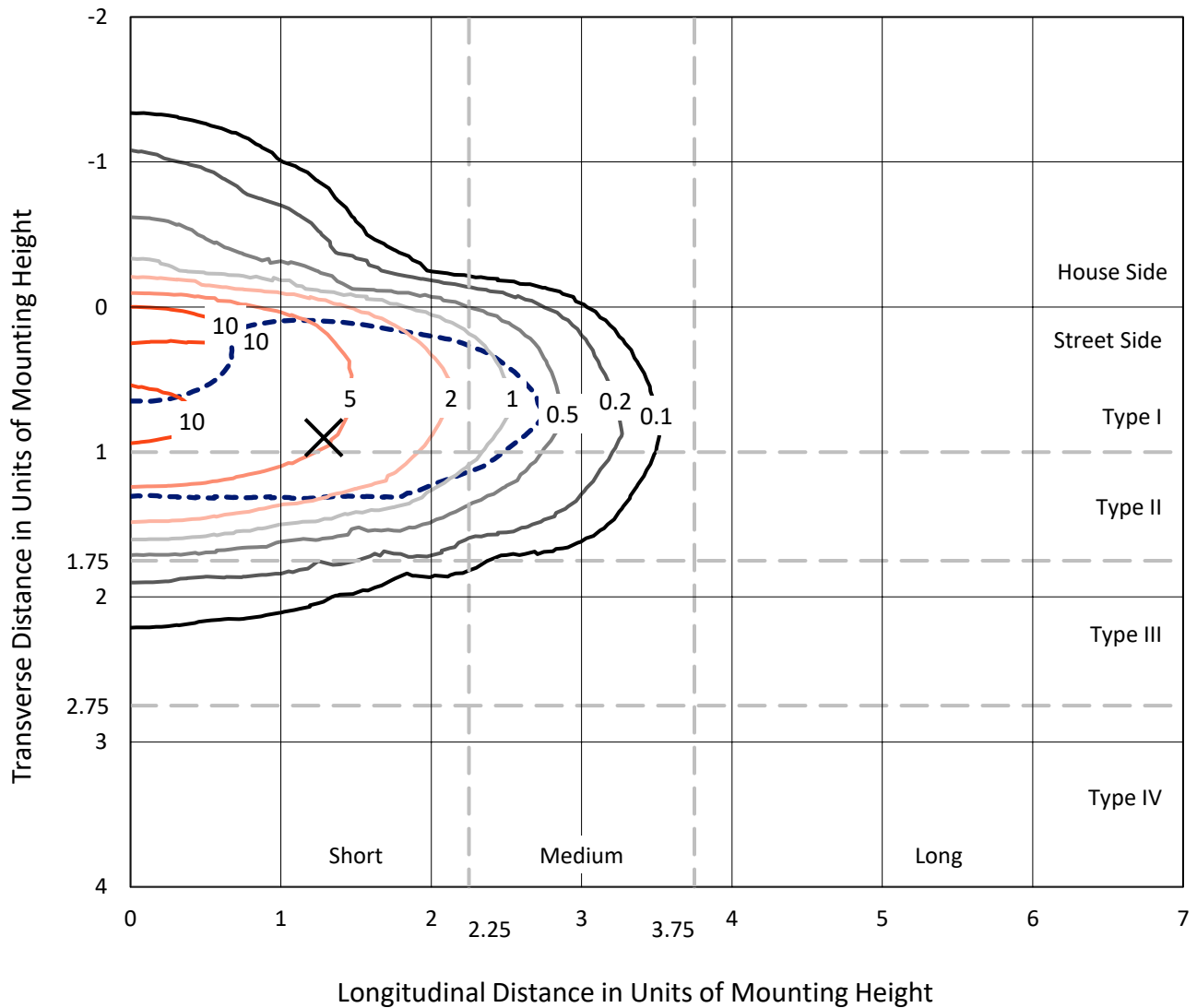
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

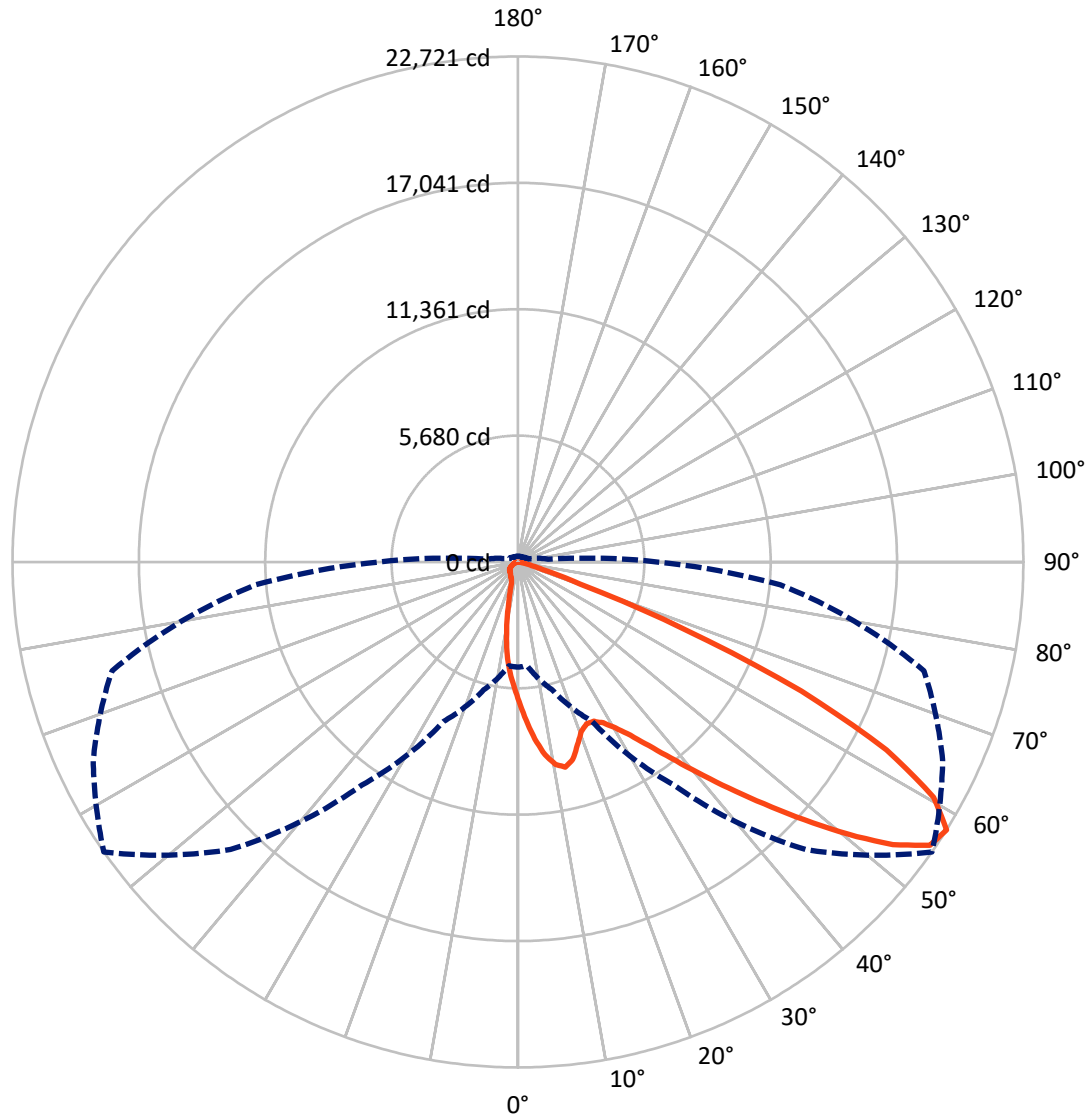
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2033.0	0.0	2033.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23999.0	0.0	23999.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	26032.0	0.0	26032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.7	2.2
10°-20°	1409.9	5.4
20°-30°	2255.8	8.7
30°-40°	3818.0	14.7
40°-50°	6268.4	24.1
50°-60°	6889.4	26.5
60°-70°	3951.8	15.2
70°-80°	807.5	3.1
80°-90°	47.6	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°	26032.0	100.0
0°-180°	26032.0	100.0

Coefficient of Utilization



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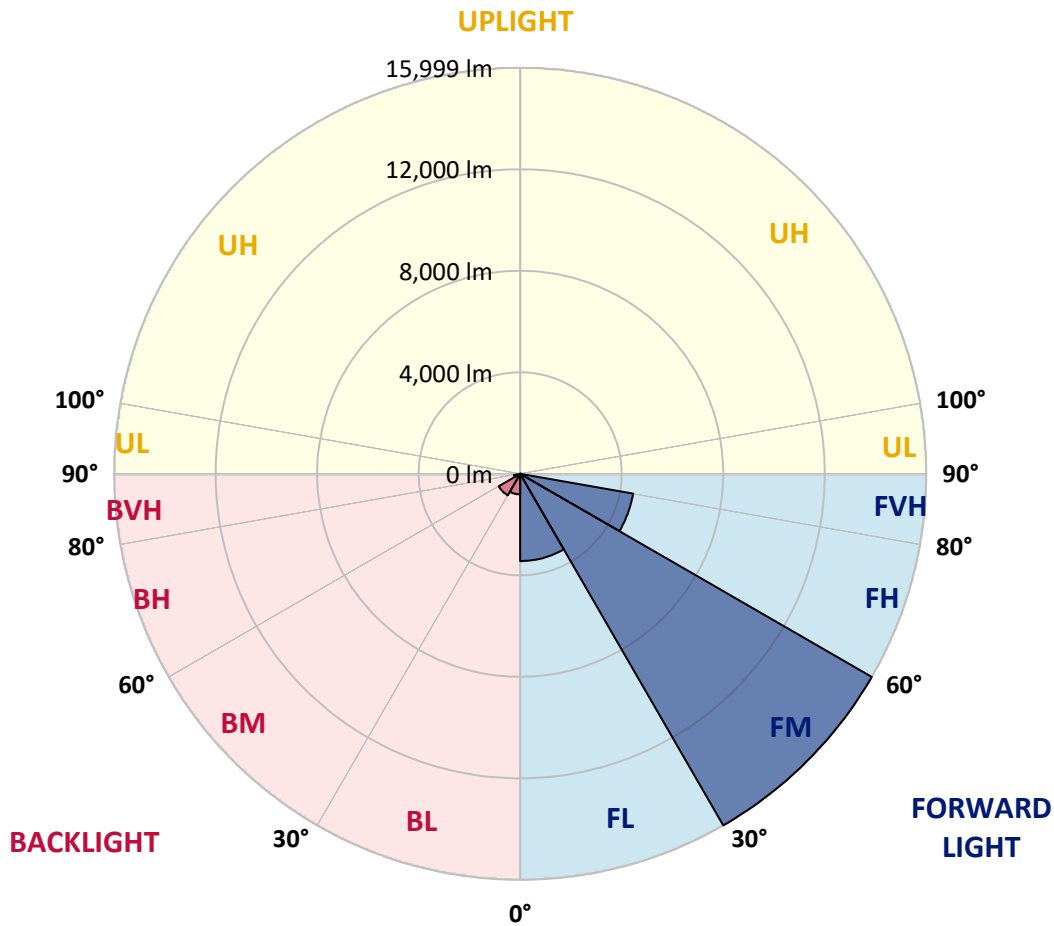
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.7	13.2			
FM (30°-60°)	15999.5	61.5			
FH (60°-80°)	4517.4	17.4			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	811.6	3.1	B2/1000		
BM (30°-60°)	976.4	3.8	B1/1000		
BH (60°-80°)	241.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1
2.5°	7783.6	7685.6	7671.2	7651.9	7465.7	7326.1	7123.8	6902.3	6653.5	6399.9
5°	8992.3	8915.2	8900.8	8810.9	8599.0	8361.4	8001.9	7547.6	7083.7	6537.9
7.5°	9226.6	9212.2	9278.0	9274.8	9245.9	9058.1	8754.7	8213.7	7517.1	6708.1
10°	8181.6	8218.6	8414.4	8586.1	9050.0	9319.7	9253.9	8807.7	7963.3	6902.3
12.5°	7229.8	7186.4	7326.1	7520.3	8059.6	8862.2	9461.0	9303.7	8473.8	7122.2
15°	6632.6	6615.0	6693.6	6783.5	7194.4	8003.5	9220.2	9706.6	8965.0	7382.3
17.5°	6441.6	6427.2	6451.2	6473.7	6740.2	7366.2	8647.1	9953.8	9435.3	7679.2
20°	6597.3	6578.1	6574.8	6557.2	6667.9	7094.9	8128.7	9971.4	9857.5	7948.9
22.5°	7051.6	7029.1	6950.5	6879.8	6889.5	7131.8	7897.5	9794.9	10175.3	8200.9
25°	7875.0	7838.1	7674.4	7436.8	7285.9	7388.7	7932.8	9562.1	10478.7	8398.3
27.5°	8905.6	8857.4	8647.1	8294.0	7948.9	7823.7	8188.1	9401.6	10730.7	8549.2
30°	9915.2	9852.6	9645.6	9371.1	8867.1	8472.2	8648.7	9472.2	11030.8	8706.5
32.5°	11005.2	10945.8	10671.3	10331.0	9913.6	9382.3	9279.6	9817.3	11398.4	8926.4
35°	12384.0	12290.9	11900.9	11437.0	10993.9	10456.2	10133.5	10412.8	11888.0	9261.9
37.5°	13953.9	13828.7	13408.1	12767.7	12189.8	11587.8	11173.7	11231.5	12605.5	9711.4
40°	15433.9	15319.9	14931.4	14327.9	13602.4	12872.0	12430.6	12302.2	13595.9	10258.7
42.5°	16321.5	16218.8	16055.1	15799.9	15188.3	14443.5	13886.5	13608.8	14767.7	10913.7
45°	16371.3	16281.4	16501.3	16798.3	16677.9	16181.9	15502.9	14994.1	15944.3	11528.5
47.5°	15575.1	15514.1	16181.9	17218.8	17735.7	17944.4	17318.4	16263.8	16915.5	11969.9
50°	13404.9	13382.4	14756.5	16660.2	18138.6	19488.6	19233.3	17445.2	17668.3	12197.8
52.5°	11623.2	11541.3	12342.3	14872.1	17552.7	20300.8	21105.0	18604.1	18194.8	12241.2
55°	8815.7	8743.5	9748.3	11880.0	15663.4	20011.9	22474.2	19800.0	18572.0	12130.4
57.5°	4728.9	4683.9	5953.6	7907.2	12244.4	18278.3	22721.4	21064.9	18889.8	11836.6
60°	1841.1	1833.1	2308.3	3836.4	7441.6	14870.5	21474.2	21824.1	19088.9	11475.5
62.5°	1114.0	1138.1	1215.1	1722.4	3287.4	9237.9	18599.3	20960.5	19222.1	11144.8
65°	921.4	923.0	932.6	1183.0	1574.7	3865.3	14002.0	18119.3	18893.0	10555.7
67.5°	789.8	804.2	841.1	939.0	1110.8	1695.1	8061.2	14035.8	16891.4	9184.9
70°	622.8	642.1	688.6	772.1	857.2	1061.0	2979.2	9339.0	12904.1	6923.2
72.5°	524.9	523.3	547.4	627.6	680.6	746.4	1146.1	5232.9	7499.4	3305.1
75°	406.1	422.2	452.7	524.9	557.0	540.9	621.2	1911.8	2687.1	1001.6
77.5°	317.8	330.7	358.0	428.6	460.7	383.6	358.0	683.8	863.6	359.6
80°	142.9	154.1	244.0	316.2	375.6	264.9	194.2	349.9	383.6	163.7
82.5°	25.7	43.3	142.9	166.9	192.6	171.8	101.1	181.4	187.8	65.8
85°	1.6	3.2	49.8	61.0	77.0	56.2	30.5	72.2	62.6	22.5
87.5°	0.0	0.0	0.0	1.6	1.6	8.0	9.6	12.8	9.6	8.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6273.1	0°	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1	6273.1
6287.5	2.5°	6171.9	5944.0	5722.5	5541.1	5435.2	5255.4	5136.6	5117.3	5067.6	5110.9
6303.6	5°	6053.2	5645.4	5232.9	4863.7	4560.3	4168.7	3876.5	3752.9	3645.4	3682.3
6345.3	7.5°	5997.0	5353.3	4711.2	4080.4	3431.9	2805.9	2340.4	2146.1	1998.5	2019.3
6391.9	10°	5921.5	5049.9	4043.5	3080.4	2211.9	1594.0	1272.9	1154.1	1088.3	1089.9
6460.9	12.5°	5863.7	4687.1	3268.2	2088.3	1346.8	1017.7	918.2	889.3	870.0	871.6
6565.2	15°	5834.9	4260.2	2502.5	1391.7	963.1	862.0	837.9	825.1	812.2	810.6
6680.8	17.5°	5786.7	3785.0	1831.5	1016.1	842.7	807.4	786.5	772.1	756.0	752.8
6780.3	20°	5714.5	3245.7	1338.7	858.8	789.8	762.5	733.6	714.3	695.0	691.8
6842.9	22.5°	5581.2	2675.8	1028.9	794.6	751.2	720.7	685.4	662.9	643.7	640.5
6812.4	25°	5334.0	2141.3	866.8	754.4	717.5	680.6	642.1	611.6	593.9	590.7
6746.6	27.5°	5021.0	1682.2	786.5	717.5	674.2	640.5	597.1	568.2	552.2	549.0
6659.9	30°	4651.8	1295.4	740.0	675.8	622.8	593.9	555.4	531.3	521.7	521.7
6598.9	32.5°	4253.7	1035.3	720.7	634.0	577.9	545.8	515.3	505.6	502.4	500.8
6632.6	35°	3879.7	898.9	711.1	600.3	537.7	507.2	494.4	496.0	502.4	502.4
6737.0	37.5°	3547.5	855.6	706.3	576.3	502.4	475.1	483.2	497.6	491.2	491.2
6920.0	40°	3247.3	860.4	703.1	558.6	473.5	457.5	473.5	462.3	446.2	444.6
7143.1	42.5°	3017.8	900.5	696.7	544.2	455.9	444.6	438.2	420.6	419.0	422.2
7374.2	45°	2850.8	935.8	695.0	537.7	436.6	415.7	407.7	390.1	422.2	430.2
7468.9	47.5°	2653.4	935.8	695.0	515.3	404.5	396.5	383.6	364.4	396.5	404.5
7379.0	50°	2398.1	876.4	667.8	489.6	378.8	374.0	351.5	327.5	321.0	325.9
7168.8	52.5°	2075.5	768.9	598.7	454.3	353.1	343.5	316.2	298.6	293.7	293.7
6791.5	55°	1707.9	643.7	505.6	402.9	325.9	308.2	288.9	280.9	276.1	272.9
6263.4	57.5°	1388.5	528.1	406.1	358.0	300.2	277.7	271.3	261.6	253.6	248.8
5822.0	60°	1139.7	415.7	335.5	317.8	274.5	253.6	252.0	239.2	218.3	215.1
5457.6	62.5°	879.6	305.0	282.5	276.1	248.8	231.1	227.9	202.3	170.1	163.7
4940.8	65°	621.2	237.6	227.9	242.4	221.5	205.5	197.4	158.9	125.2	120.4
4135.0	67.5°	436.6	199.0	179.8	211.9	192.6	171.8	166.9	134.8	104.3	101.1
3126.9	70°	311.4	162.1	147.7	181.4	154.1	150.9	141.3	112.4	85.1	81.9
1547.4	72.5°	219.9	123.6	114.0	157.3	105.9	130.0	115.6	86.7	64.2	61.0
526.5	75°	162.1	88.3	80.3	91.5	77.0	97.9	81.9	57.8	40.1	38.5
237.6	77.5°	118.8	56.2	48.2	44.9	44.9	61.0	44.9	24.1	17.7	16.1
120.4	80°	83.5	25.7	22.5	19.3	17.7	14.4	6.4	3.2	1.6	1.6
41.7	82.5°	49.8	11.2	11.2	8.0	4.8	0.0	0.0	0.0	0.0	0.0
16.1	85°	11.2	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.4	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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