

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: P948843

Luminaire Tested: **GALN-SB3D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948843
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 27541 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

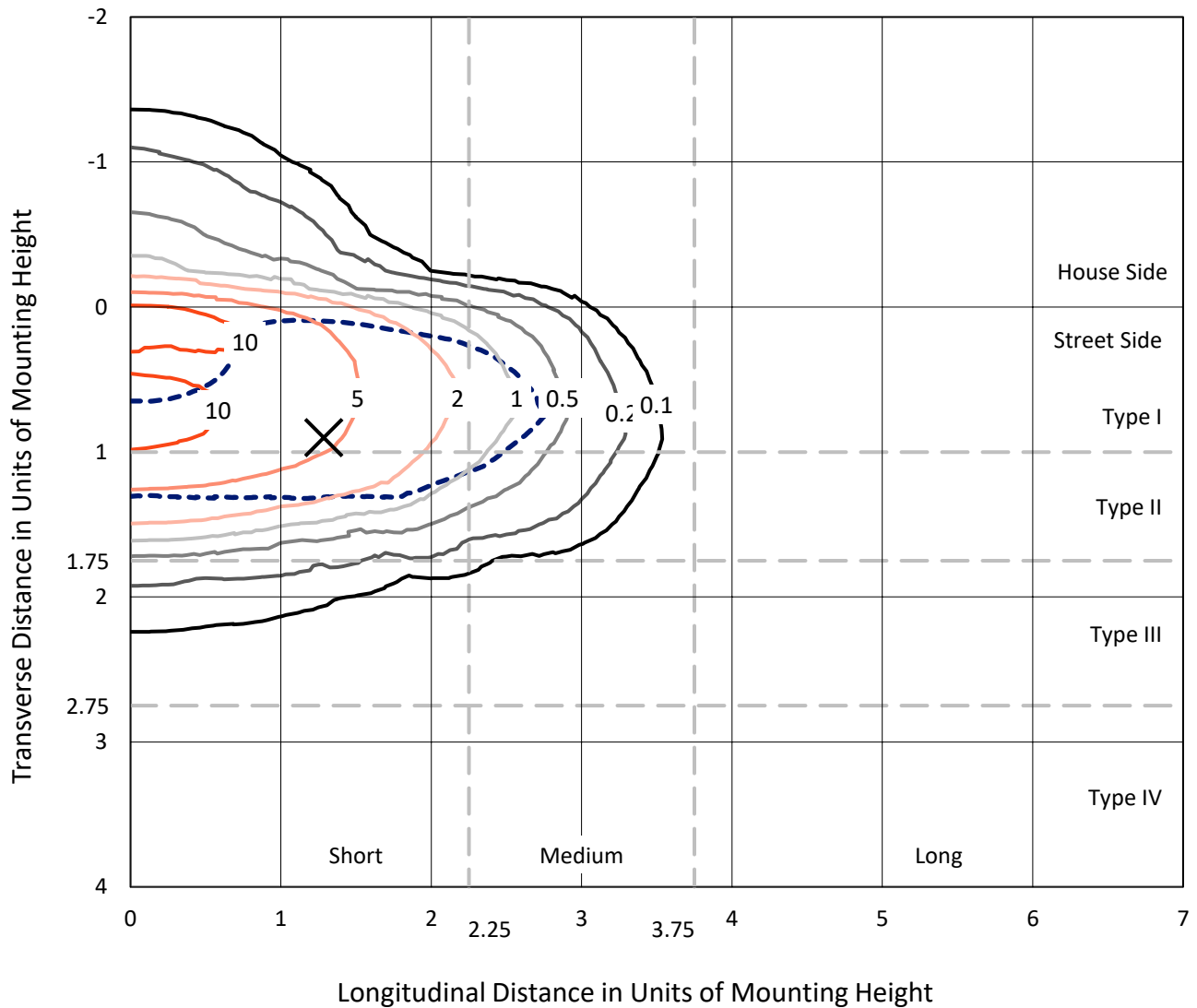
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

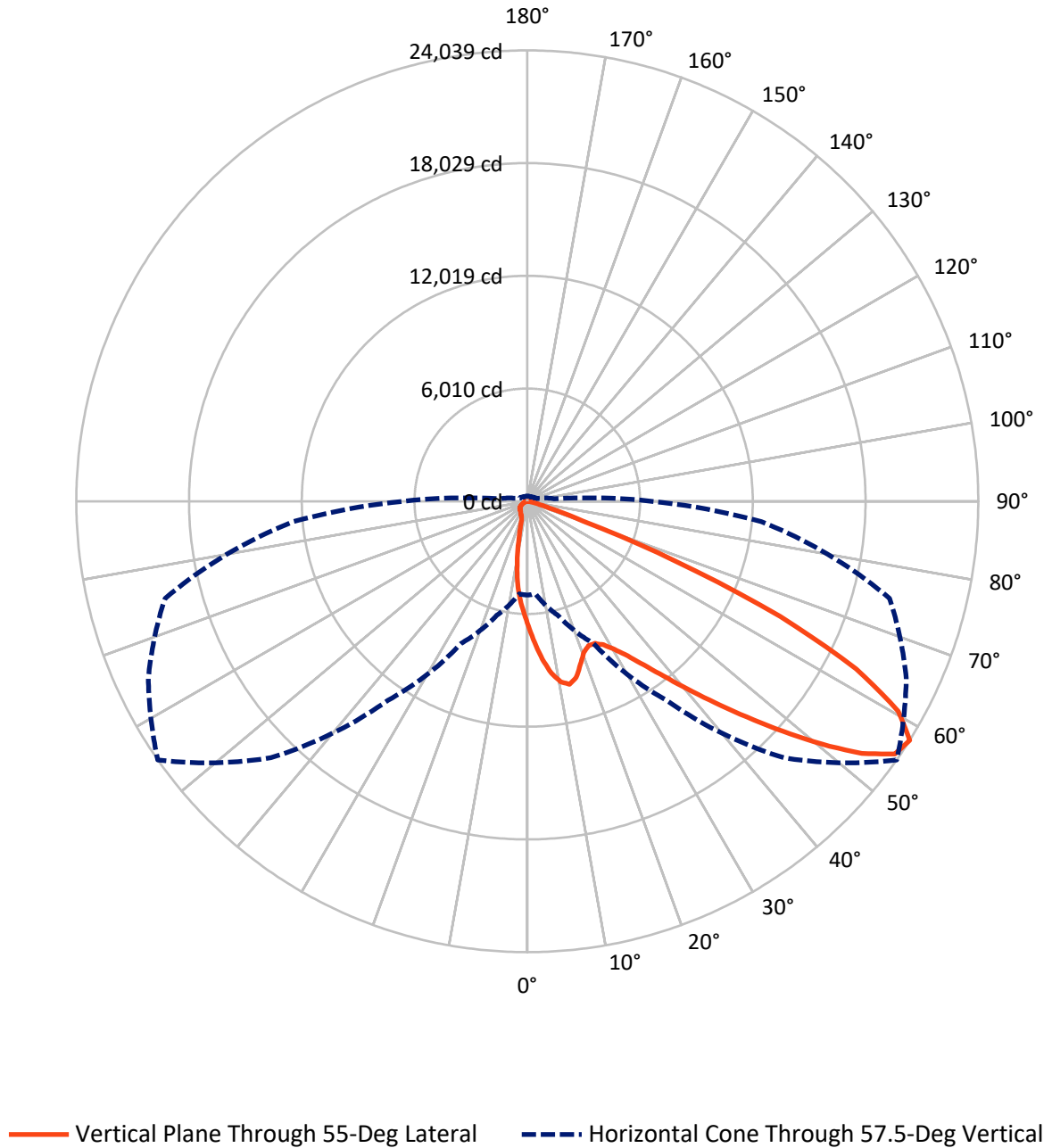
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.8	0.0	2150.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25390.2	0.0	25390.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	27541.0	0.0	27541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.5	2.2
10°-20°	1491.6	5.4
20°-30°	2386.5	8.7
30°-40°	4039.4	14.7
40°-50°	6631.8	24.1
50°-60°	7288.8	26.5
60°-70°	4180.8	15.2
70°-80°	854.3	3.1
80°-90°	50.4	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°	27541.0	100.0
0°-180°	27541.0	100.0

Coefficient of Utilization



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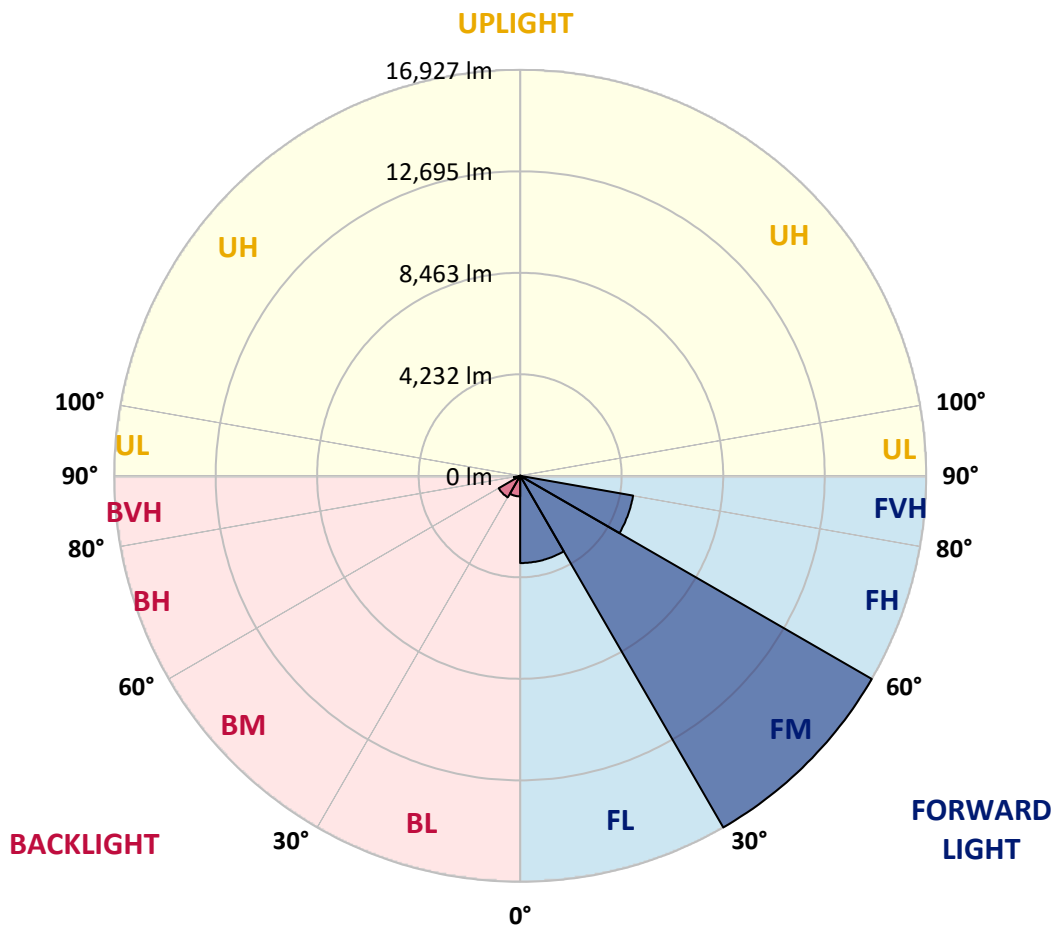
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3637.0	13.2			
FM (30°-60°)	16926.9	61.5			
FH (60°-80°)	4779.3	17.4			G2/5000
FVH (80°-90°)	47.0	0.2			G1/100
BL (0°-30°)	858.7	3.1	B2/1000		
BM (30°-60°)	1033.0	3.8	B2/2500		
BH (60°-80°)	255.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7
2.5°	8234.7	8131.1	8115.9	8095.5	7898.5	7750.7	7536.8	7302.4	7039.2	6770.9
5°	9513.5	9432.0	9416.7	9321.6	9097.4	8846.1	8465.7	7985.1	7494.3	6916.9
7.5°	9761.5	9746.2	9815.8	9812.4	9781.8	9583.1	9262.2	8689.9	7952.8	7096.9
10°	8655.9	8695.0	8902.1	9083.9	9574.6	9860.0	9790.3	9318.2	8424.9	7302.4
12.5°	7648.9	7603.0	7750.7	7956.2	8526.8	9376.0	10009.4	9843.0	8965.0	7535.1
15°	7017.1	6998.4	7081.6	7176.7	7611.5	8467.4	9754.7	10269.2	9484.6	7810.2
17.5°	6815.0	6799.7	6825.2	6849.0	7130.9	7793.2	9148.4	10530.8	9982.2	8124.4
20°	6979.7	6959.4	6956.0	6937.3	7054.5	7506.2	8599.9	10549.4	10428.9	8409.7
22.5°	7460.3	7436.6	7353.4	7278.6	7288.8	7545.3	8355.3	10362.6	10765.1	8676.3
25°	8331.5	8292.5	8119.3	7867.9	7708.3	7817.0	8392.7	10116.4	11086.1	8885.2
27.5°	9421.8	9370.9	9148.4	8774.8	8409.7	8277.2	8662.7	9946.6	11352.7	9044.8
30°	10490.0	10423.8	10204.7	9914.3	9381.0	8963.3	9150.1	10021.3	11670.3	9211.2
32.5°	11643.1	11580.3	11289.9	10929.8	10488.3	9926.2	9817.5	10386.4	12059.2	9443.9
35°	13101.9	13003.4	12590.7	12099.9	11631.2	11062.3	10721.0	11016.5	12577.1	9798.8
37.5°	14762.8	14630.3	14185.4	13507.8	12896.4	12259.6	11821.4	11882.6	13336.2	10274.3
40°	16328.5	16208.0	15797.0	15158.4	14390.8	13618.1	13151.1	13015.3	14384.1	10853.4
42.5°	17267.7	17159.0	16985.7	16715.7	16068.7	15280.7	14691.4	14397.6	15623.8	11546.3
45°	17320.3	17225.2	17457.9	17772.0	17644.7	17119.9	16401.6	15863.2	16868.6	12196.7
47.5°	16478.0	16413.4	17119.9	18217.0	18763.8	18984.6	18322.3	17206.5	17896.0	12663.7
50°	14182.0	14158.2	15611.9	17626.0	19190.1	20618.3	20348.3	18456.4	18692.5	12904.9
52.5°	12296.9	12210.3	13057.7	15734.1	18570.2	21477.6	22328.4	19682.5	19249.5	12950.7
55°	9326.7	9250.3	10313.4	12568.6	16571.4	21171.9	23777.0	20947.7	19648.6	12833.6
57.5°	5003.0	4955.4	6298.8	8365.5	12954.1	19337.8	24038.5	22285.9	19984.8	12522.8
60°	1947.9	1939.4	2442.1	4058.8	7873.0	15732.4	22719.0	23089.2	20195.4	12140.7
62.5°	1178.6	1204.0	1285.6	1822.2	3478.0	9773.3	19677.4	22175.6	20336.4	11790.8
65°	974.8	976.5	986.7	1251.6	1666.0	4089.3	14813.7	19169.7	19988.2	11167.6
67.5°	835.5	850.8	889.9	993.5	1175.2	1793.3	8528.5	14849.4	17870.5	9717.3
70°	658.9	679.3	728.5	816.9	906.9	1122.5	3151.9	9880.3	13652.1	7324.5
72.5°	555.3	553.6	579.1	664.0	720.1	789.7	1212.5	5536.2	7934.2	3496.7
75°	429.7	446.6	478.9	555.3	589.3	572.3	657.2	2022.6	2842.8	1059.7
77.5°	336.3	349.8	378.7	453.4	487.4	405.9	378.7	723.4	913.7	380.4
80°	151.1	163.0	258.1	334.6	397.4	280.2	205.5	370.2	405.9	173.2
82.5°	27.2	45.9	151.1	176.6	203.8	181.7	107.0	191.9	198.7	69.6
85°	1.7	3.4	52.6	64.5	81.5	59.4	32.3	76.4	66.2	23.8
87.5°	0.0	0.0	0.0	1.7	1.7	8.5	10.2	13.6	10.2	8.5
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°
6636.7	0°	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7
6652.0	2.5°	6529.7	6288.6	6054.2	5862.3	5750.2	5560.0	5434.4	5414.0	5361.3	5407.2
6669.0	5°	6404.0	5972.7	5536.2	5145.7	4824.7	4410.3	4101.2	3970.5	3856.7	3895.8
6713.1	7.5°	6344.6	5663.6	4984.3	4316.9	3630.8	2968.5	2476.0	2270.5	2114.3	2136.4
6762.4	10°	6264.8	5342.6	4277.9	3258.9	2340.2	1686.3	1346.7	1221.0	1151.4	1153.1
6835.4	12.5°	6203.7	4958.8	3457.6	2209.4	1424.8	1076.7	971.4	940.8	920.4	922.1
6945.8	15°	6173.1	4507.1	2647.5	1472.4	1018.9	912.0	886.5	872.9	859.3	857.6
7068.1	17.5°	6122.1	4004.4	1937.7	1075.0	891.6	854.2	832.1	816.9	799.9	796.5
7173.3	20°	6045.7	3433.8	1416.3	908.6	835.5	806.7	776.1	755.7	735.3	731.9
7239.6	22.5°	5904.8	2831.0	1088.6	840.6	794.8	762.5	725.1	701.4	681.0	677.6
7207.3	25°	5643.2	2265.4	917.0	798.2	759.1	720.1	679.3	647.0	628.3	625.0
7137.7	27.5°	5312.1	1779.8	832.1	759.1	713.3	677.6	631.7	601.2	584.2	580.8
7046.0	30°	4921.5	1370.5	782.9	715.0	658.9	628.3	587.6	562.1	551.9	551.9
6981.4	32.5°	4500.3	1095.4	762.5	670.8	611.4	577.4	545.1	534.9	531.5	529.8
7017.1	35°	4104.6	951.0	752.3	635.1	568.9	536.6	523.1	524.8	531.5	531.5
7127.5	37.5°	3753.1	905.2	747.2	609.7	531.5	502.7	511.2	526.5	519.7	519.7
7321.1	40°	3435.5	910.3	743.8	591.0	501.0	484.0	501.0	489.1	472.1	470.4
7557.1	42.5°	3192.7	952.7	737.0	575.7	482.3	470.4	463.6	444.9	443.2	446.6
7801.7	45°	3016.1	990.1	735.3	568.9	461.9	439.8	431.4	412.7	446.6	455.1
7901.9	47.5°	2807.2	990.1	735.3	545.1	428.0	419.5	405.9	385.5	419.5	428.0
7806.8	50°	2537.2	927.2	706.5	518.0	400.8	395.7	371.9	346.4	339.6	344.7
7584.3	52.5°	2195.8	813.5	633.4	480.6	373.6	363.4	334.6	315.9	310.8	310.8
7185.2	55°	1806.9	681.0	534.9	426.3	344.7	326.1	305.7	297.2	292.1	288.7
6626.5	57.5°	1469.0	558.7	429.7	378.7	317.6	293.8	287.0	276.8	268.3	263.2
6159.5	60°	1205.7	439.8	354.9	336.3	290.4	268.3	266.6	253.0	231.0	227.6
5774.0	62.5°	930.6	322.7	298.9	292.1	263.2	244.5	241.1	214.0	180.0	173.2
5227.2	65°	657.2	251.3	241.1	256.4	234.4	217.4	208.9	168.1	132.5	127.4
4374.7	67.5°	461.9	210.6	190.2	224.2	203.8	181.7	176.6	142.7	110.4	107.0
3308.2	70°	329.5	171.5	156.2	191.9	163.0	159.6	149.4	118.9	90.0	86.6
1637.1	72.5°	232.7	130.8	120.6	166.4	112.1	137.6	122.3	91.7	67.9	64.5
557.0	75°	171.5	93.4	84.9	96.8	81.5	103.6	86.6	61.1	42.5	40.8
251.3	77.5°	125.7	59.4	50.9	47.6	47.6	64.5	47.6	25.5	18.7	17.0
127.4	80°	88.3	27.2	23.8	20.4	18.7	15.3	6.8	3.4	1.7	1.7
44.2	82.5°	52.6	11.9	11.9	8.5	5.1	0.0	0.0	0.0	0.0	0.0
17.0	85°	11.9	5.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	1.7	1.7	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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