

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: P954555

Luminaire Tested: **GALN-SB7D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954555
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-SB7D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 65280 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

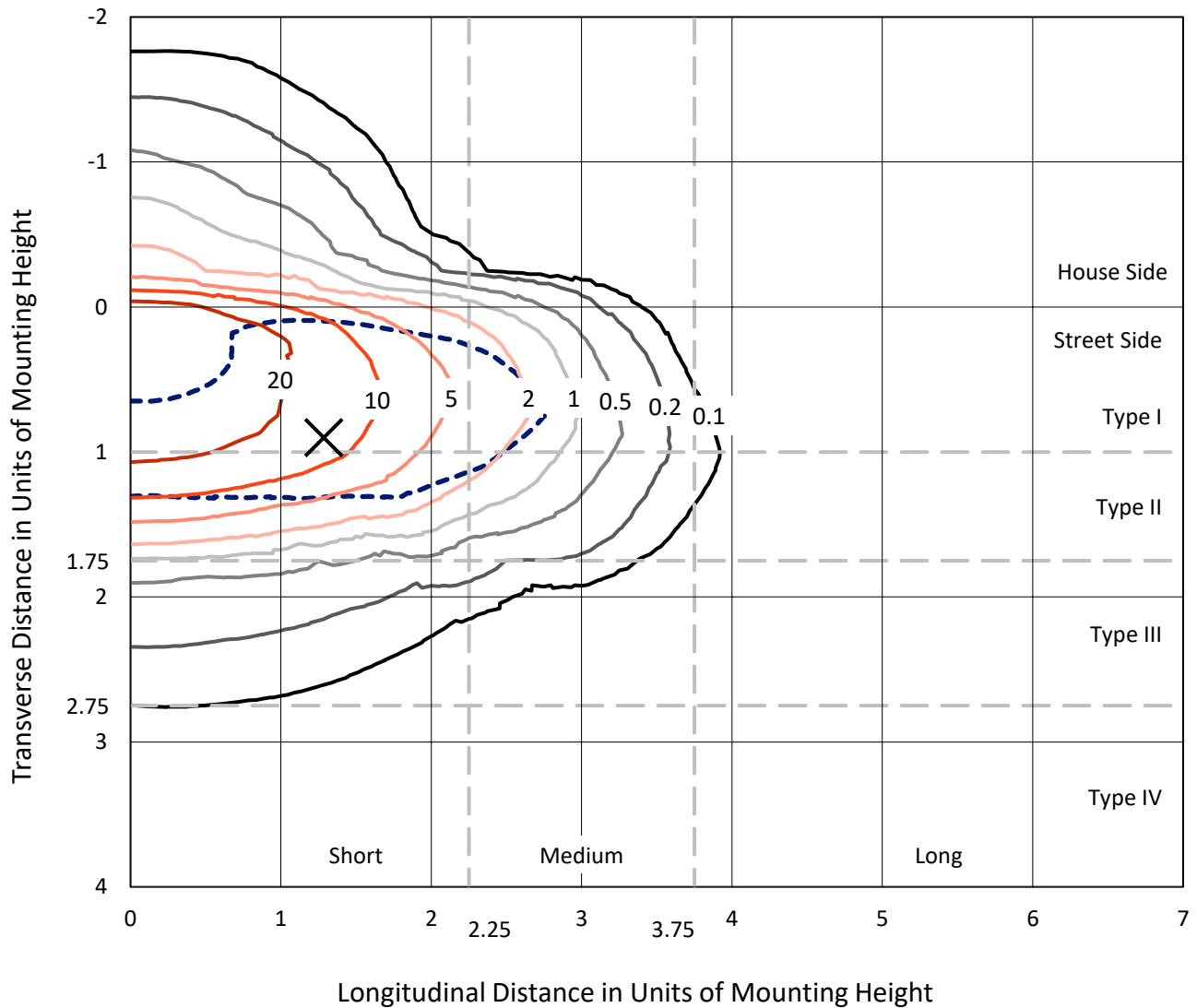
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

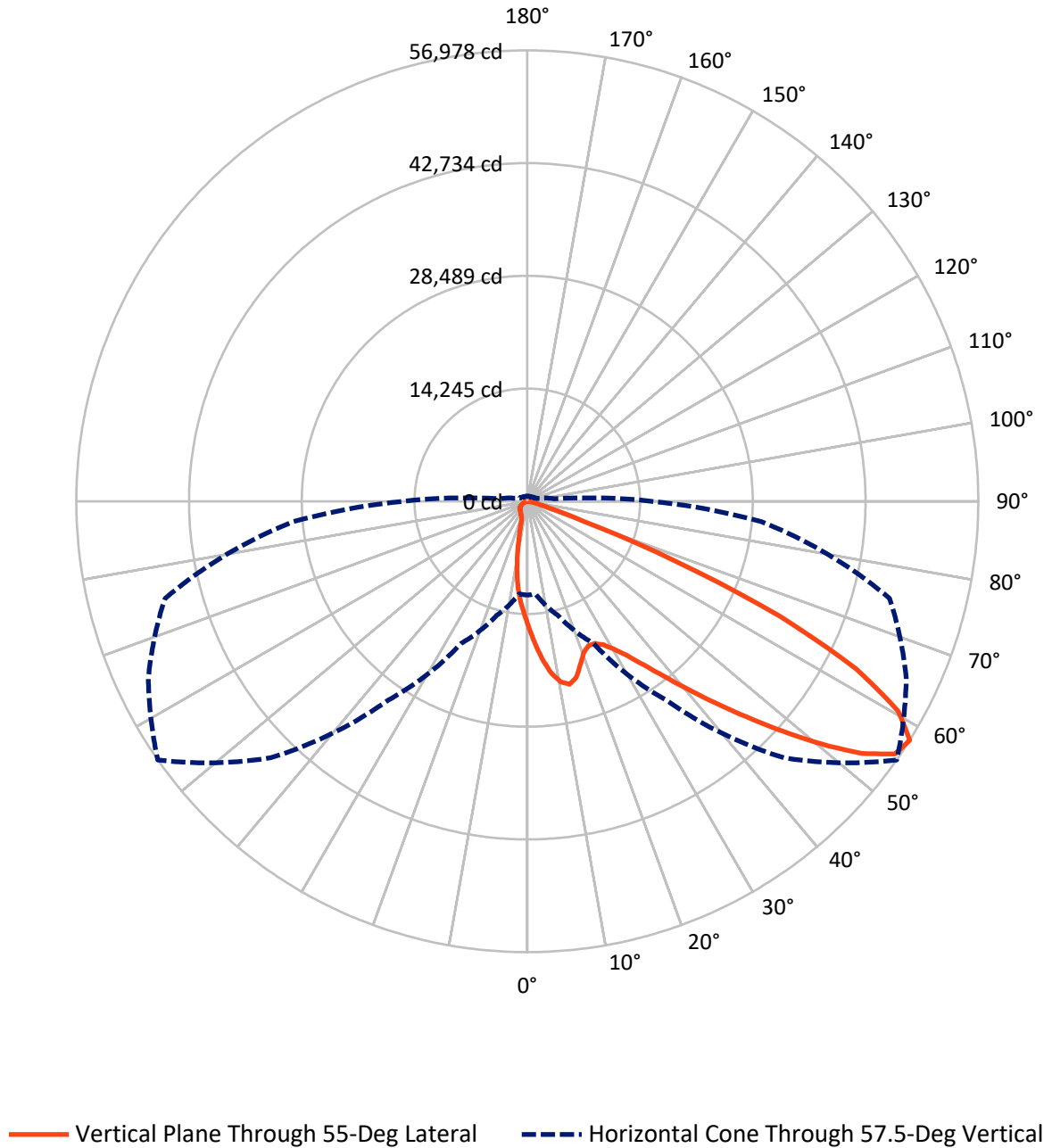
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36 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	5098.1	0.0	5098.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	60181.9	0.0	60181.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	65280.0	0.0	65280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.7	2.2
10°-20°	3535.5	5.4
20°-30°	5656.8	8.7
30°-40°	9574.4	14.7
40°-50°	15719.1	24.1
50°-60°	17276.4	26.5
60°-70°	9909.8	15.2
70°-80°	2024.9	3.1
80°-90°	119.4	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°	65280.0	100.0
0°-180°	65280.0	100.0

Coefficient of Utilization



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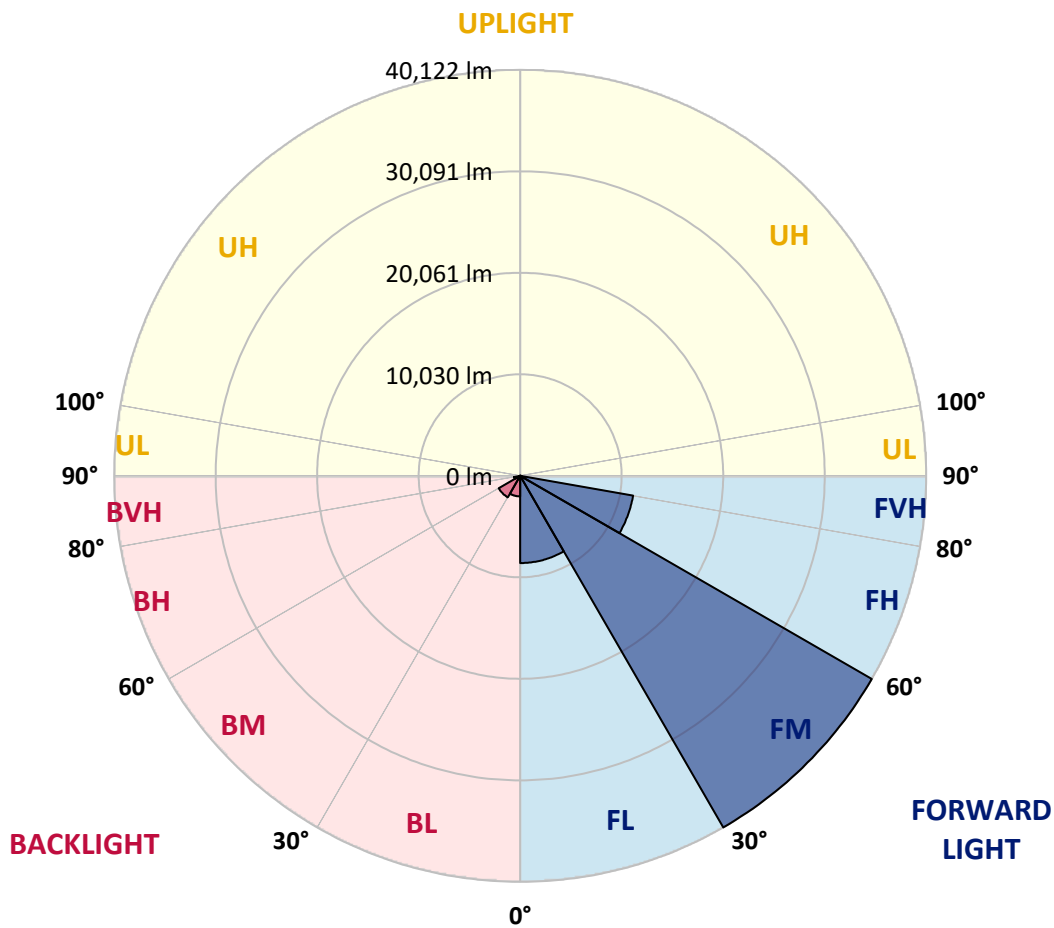
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8620.6	13.2			
FM (30°-60°)	40121.6	61.5			
FH (60°-80°)	11328.3	17.4			G4/12000
FVH (80°-90°)	111.4	0.2			G2/225
BL (0°-30°)	2035.3	3.1	B3/2500		
BM (30°-60°)	2448.4	3.8	B2/2500		
BH (60°-80°)	606.3	0.9	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9
2.5°	19518.7	19273.1	19236.9	19188.6	18721.7	18371.5	17864.3	17308.8	16684.9	16048.9
5°	22549.7	22356.5	22320.3	22094.9	21563.5	20967.8	20066.1	18927.0	17763.6	16395.0
7.5°	23137.4	23101.2	23266.2	23258.2	23185.7	22714.8	21954.0	20597.5	18850.5	16821.7
10°	20517.0	20609.5	21100.6	21531.3	22694.6	23370.9	23205.9	22086.8	19969.5	17308.8
12.5°	18129.9	18021.3	18371.5	18858.5	20211.0	22223.7	23725.1	23330.6	21249.6	17860.3
15°	16632.5	16588.3	16785.5	17010.9	18041.4	20070.1	23121.3	24341.0	22481.3	18512.4
17.5°	16153.5	16117.3	16177.7	16234.0	16902.2	18472.1	21684.3	24960.9	23660.7	19257.0
20°	16544.0	16495.7	16487.6	16443.3	16721.1	17791.8	20384.1	25005.2	24719.4	19933.3
22.5°	17683.1	17626.8	17429.5	17252.4	17276.6	17884.4	19804.5	24562.4	25516.4	20565.3
25°	19748.1	19655.5	19245.0	18649.2	18270.8	18528.5	19893.0	23978.7	26277.2	21060.4
27.5°	22332.4	22211.6	21684.3	20798.7	19933.3	19619.3	20533.1	23576.2	26909.1	21438.7
30°	24864.3	24707.3	24188.0	23499.7	22235.8	21245.5	21688.3	23753.3	27661.9	21833.2
32.5°	27597.5	27448.5	26760.2	25906.8	24860.3	23527.9	23270.3	24618.7	28583.7	22384.7
35°	31055.2	30821.7	29843.6	28680.3	27569.3	26220.8	25411.7	26112.1	29811.4	23226.0
37.5°	34991.9	34678.0	33623.3	32017.2	30568.1	29058.6	28020.1	28165.0	31610.7	24353.1
40°	38703.3	38417.5	37443.3	35929.8	34110.4	32278.9	31171.9	30849.9	34094.3	25725.7
42.5°	40929.2	40671.6	40261.0	39621.0	38087.4	36219.6	34822.9	34126.5	37032.8	27368.0
45°	41054.0	40828.6	41380.1	42124.8	41822.9	40579.0	38876.3	37600.3	39983.3	28909.7
47.5°	39057.5	38904.5	40579.0	43179.4	44475.5	44998.8	43429.0	40784.3	42418.6	30016.7
50°	33615.3	33558.9	37004.6	41778.6	45485.9	48871.2	48231.1	43747.0	44306.5	30588.3
52.5°	29147.2	28941.9	30950.5	37294.4	44016.7	50908.0	52924.6	46653.2	45626.8	30696.9
55°	22106.9	21925.8	24445.6	29791.2	39278.9	50183.4	56358.2	49652.1	46572.7	30419.2
57.5°	11858.5	11745.8	14929.8	19828.6	30705.0	45836.1	56978.1	52824.0	47369.7	29682.6
60°	4617.0	4596.9	5788.4	9620.5	18661.3	37290.4	53850.5	54728.0	47868.9	28776.9
62.5°	2793.6	2853.9	3047.2	4319.1	8243.8	23165.6	46641.1	52562.4	48203.0	27947.7
65°	2310.5	2314.5	2338.7	2966.6	3948.8	9692.9	35112.7	45437.6	47377.8	26470.4
67.5°	1980.4	2016.7	2109.3	2354.8	2785.5	4250.7	20215.1	35197.2	42358.2	23032.8
70°	1561.8	1610.1	1726.9	1936.2	2149.5	2660.7	7471.0	23419.2	32359.4	17361.1
72.5°	1316.3	1312.2	1372.6	1573.9	1706.7	1871.8	2874.1	13122.5	18806.2	8288.1
75°	1018.4	1058.7	1135.1	1316.3	1396.8	1356.5	1557.8	4794.1	6738.4	2511.8
77.5°	797.0	829.2	897.6	1074.8	1155.3	962.0	897.6	1714.8	2165.6	901.7
80°	358.3	386.4	611.8	793.0	941.9	664.2	487.1	877.5	962.0	410.6
82.5°	64.4	108.7	358.3	418.6	483.0	430.7	253.6	454.9	471.0	165.0
85°	4.0	8.1	124.8	153.0	193.2	140.9	76.5	181.1	157.0	56.4
87.5°	0.0	0.0	0.0	4.0	4.0	20.1	24.2	32.2	24.2	20.1
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°
15730.9	0°	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9	15730.9
15767.1	2.5°	15477.3	14905.7	14350.2	13895.3	13629.7	13178.8	12881.0	12832.7	12707.9	12816.6
15807.4	5°	15179.4	14157.0	13122.5	12196.7	11435.9	10453.7	9721.1	9411.2	9141.5	9234.0
15912.0	7.5°	15038.5	13424.4	11814.3	10232.3	8606.1	7036.2	5868.9	5381.8	5011.5	5063.8
16028.7	10°	14849.3	12663.6	10139.7	7724.6	5546.9	3997.1	3192.1	2894.2	2729.2	2733.2
16201.8	12.5°	14704.4	11753.9	8195.5	5236.9	3377.2	2552.0	2302.5	2230.0	2181.7	2185.7
16463.5	15°	14632.0	10683.1	6275.4	3489.9	2415.2	2161.6	2101.2	2069.0	2036.8	2032.8
16753.3	17.5°	14511.2	9491.7	4592.9	2548.0	2113.3	2024.7	1972.4	1936.2	1895.9	1887.9
17002.9	20°	14330.1	8139.2	3357.1	2153.5	1980.4	1912.0	1839.6	1791.3	1743.0	1734.9
17159.9	22.5°	13996.0	6710.2	2580.2	1992.5	1883.8	1807.4	1718.8	1662.4	1614.1	1606.1
17083.4	25°	13376.1	5369.7	2173.7	1891.9	1799.3	1706.7	1610.1	1533.6	1489.4	1481.3
16918.3	27.5°	12591.1	4218.5	1972.4	1799.3	1690.6	1606.1	1497.4	1425.0	1384.7	1376.7
16701.0	30°	11665.3	3248.4	1855.7	1694.7	1561.8	1489.4	1392.8	1332.4	1308.2	1308.2
16548.0	32.5°	10667.0	2596.3	1807.4	1590.0	1449.1	1368.6	1292.1	1268.0	1259.9	1255.9
16632.5	35°	9729.1	2254.2	1783.2	1505.5	1348.5	1272.0	1239.8	1243.8	1259.9	1259.9
16894.2	37.5°	8895.9	2145.5	1771.1	1445.1	1259.9	1191.5	1211.6	1247.8	1231.7	1231.7
17353.1	40°	8143.2	2157.6	1763.1	1400.8	1187.5	1147.2	1187.5	1159.3	1119.0	1115.0
17912.6	42.5°	7567.6	2258.2	1747.0	1364.6	1143.2	1115.0	1098.9	1054.6	1050.6	1058.7
18492.2	45°	7148.9	2346.7	1743.0	1348.5	1094.9	1042.6	1022.4	978.1	1058.7	1078.8
18729.7	47.5°	6653.8	2346.7	1743.0	1292.1	1014.4	994.2	962.0	913.7	994.2	1014.4
18504.3	50°	6013.8	2197.8	1674.5	1227.7	950.0	937.9	881.5	821.2	805.1	817.1
17977.0	52.5°	5204.7	1928.1	1501.4	1139.2	885.6	861.4	793.0	748.7	736.6	736.6
17031.0	55°	4282.9	1614.1	1268.0	1010.4	817.1	772.9	724.6	704.4	692.4	684.3
15706.7	57.5°	3481.9	1324.3	1018.4	897.6	752.7	696.4	680.3	656.1	636.0	623.9
14599.8	60°	2858.0	1042.6	841.3	797.0	688.3	636.0	632.0	599.8	547.4	539.4
13686.0	62.5°	2205.9	764.8	708.5	692.4	623.9	579.6	571.6	507.2	426.7	410.6
12389.9	65°	1557.8	595.7	571.6	607.8	555.5	515.2	495.1	398.5	314.0	301.9
10369.2	67.5°	1094.9	499.1	450.8	531.3	483.0	430.7	418.6	338.1	261.6	253.6
7841.3	70°	780.9	406.6	370.3	454.9	386.4	378.4	354.2	281.8	213.3	205.3
3880.4	72.5°	551.5	309.9	285.8	394.5	265.7	326.0	289.8	217.4	161.0	153.0
1320.3	75°	406.6	221.4	201.3	229.4	193.2	245.5	205.3	144.9	100.6	96.6
595.7	77.5°	297.9	140.9	120.8	112.7	112.7	153.0	112.7	60.4	44.3	40.3
301.9	80°	209.3	64.4	56.4	48.3	44.3	36.2	16.1	8.1	4.0	4.0
104.7	82.5°	124.8	28.2	28.2	20.1	12.1	0.0	0.0	0.0	0.0	0.0
40.3	85°	28.2	12.1	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
16.1	87.5°	4.0	4.0	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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