

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: P954618

Luminaire Tested: **GALN-SB7D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954618
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 53655 lumens
Efficiency: N/A
Efficacy: 104.6 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

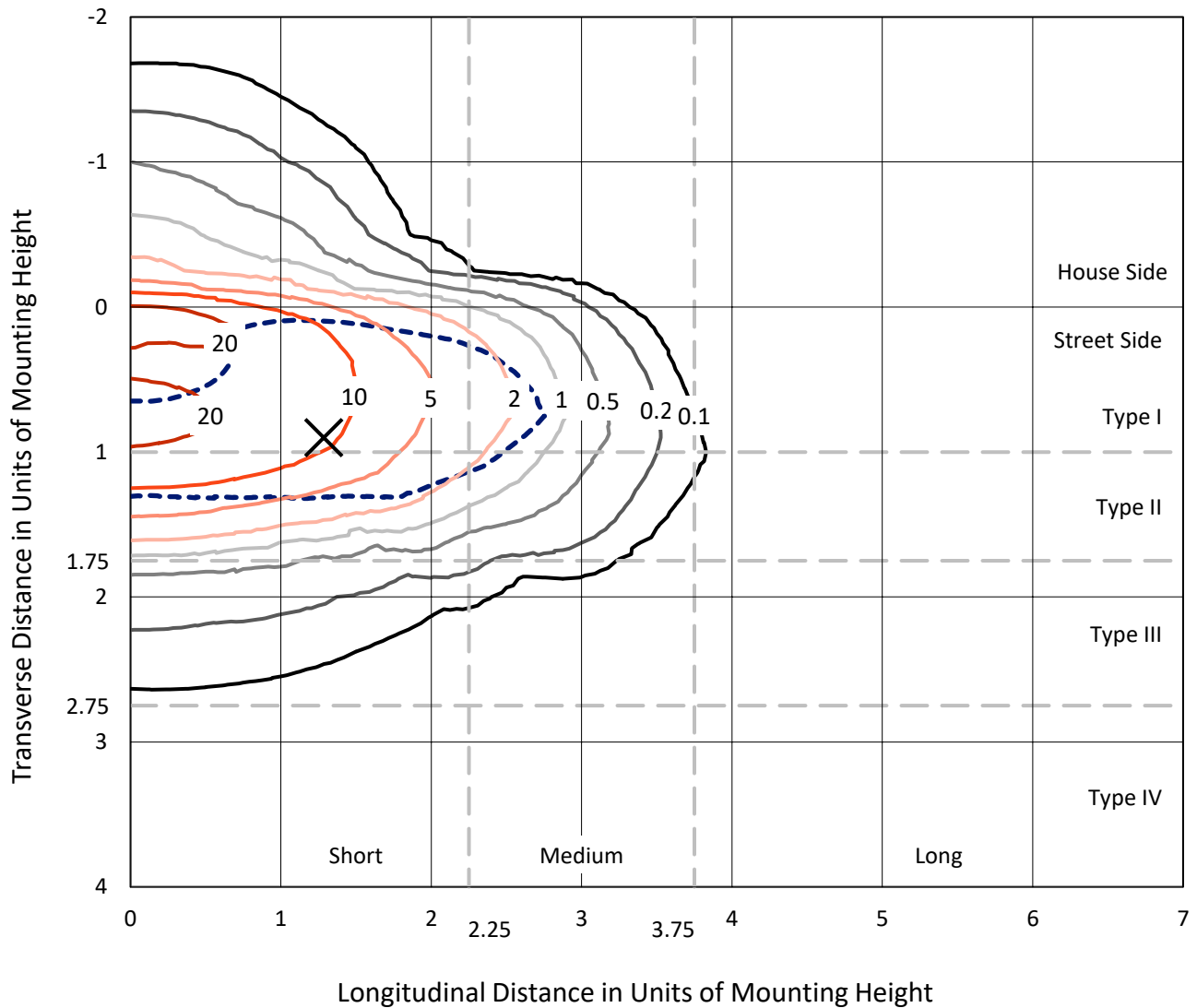
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

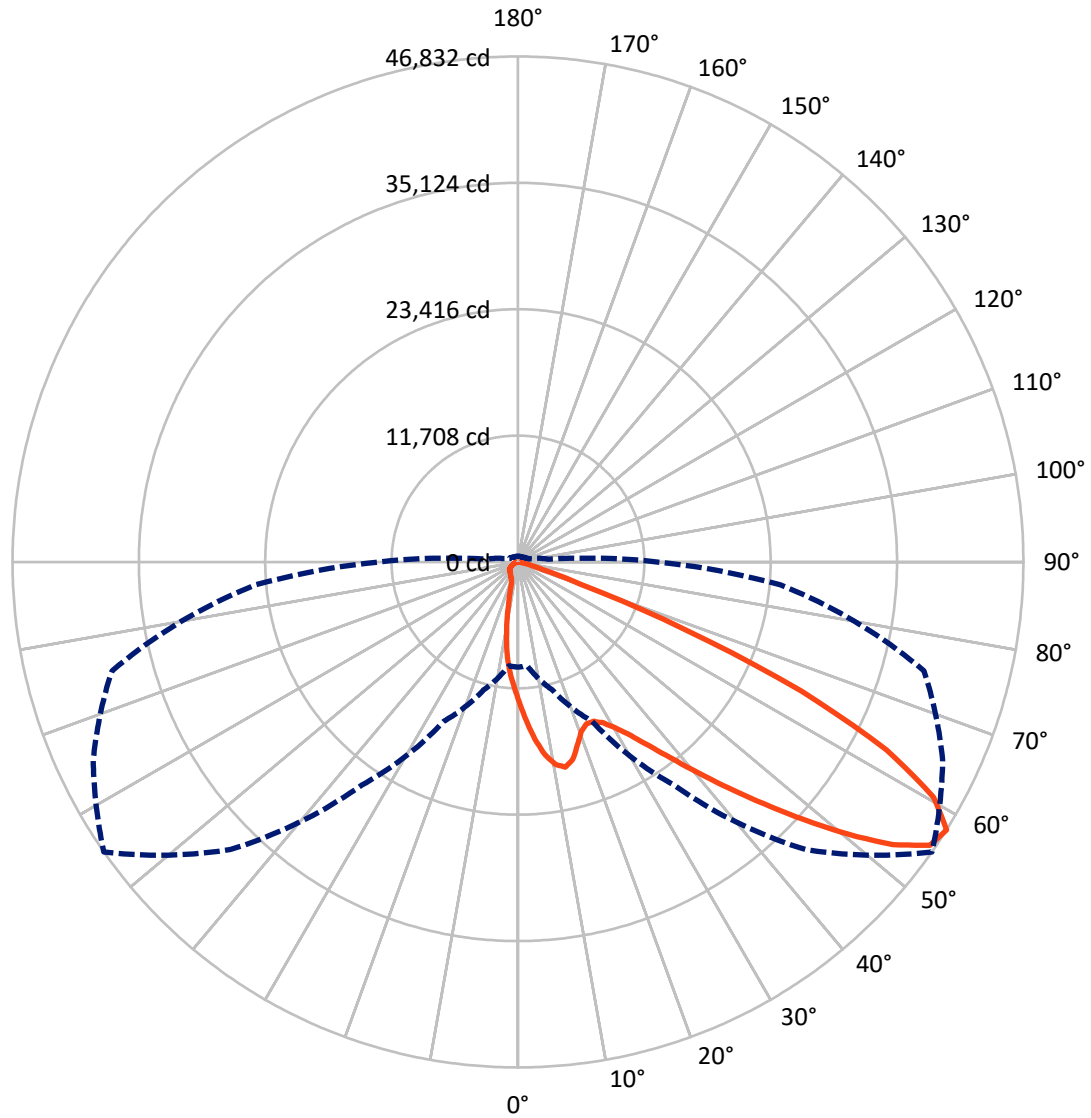
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 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	4190.2	0.0	4190.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	49464.8	0.0	49464.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	53655.0	0.0	53655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.0	2.2
10°-20°	2905.9	5.4
20°-30°	4649.4	8.7
30°-40°	7869.4	14.7
40°-50°	12919.9	24.1
50°-60°	14199.9	26.5
60°-70°	8145.1	15.2
70°-80°	1664.3	3.1
80°-90°	98.2	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°	53655.0	100.0
0°-180°	53655.0	100.0

Coefficient of Utilization



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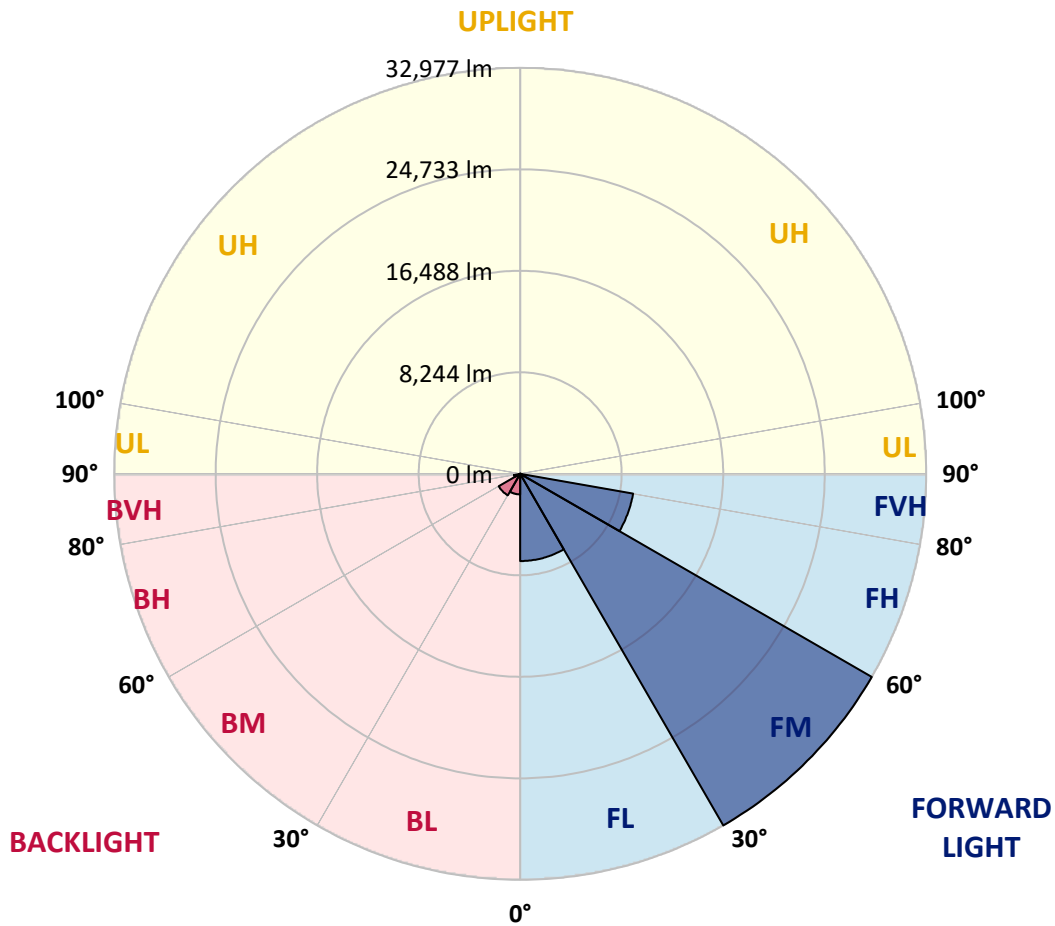
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7085.5	13.2			
FM (30°-60°)	32976.8	61.5			
FH (60°-80°)	9311.0	17.4			G4/12000
FVH (80°-90°)	91.6	0.2			G1/100
BL (0°-30°)	1672.9	3.1	B3/2500		
BM (30°-60°)	2012.4	3.8	B2/2500		
BH (60°-80°)	498.3	0.9	B1/500		G1/500
BVH (80°-90°)	6.6	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°	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5
2.5°	16042.8	15841.0	15811.2	15771.5	15387.7	15099.9	14683.0	14226.5	13713.6	13190.9
5°	18534.1	18375.3	18345.5	18160.2	17723.5	17233.9	16492.8	15556.5	14600.3	13475.4
7.5°	19017.1	18987.4	19123.0	19116.4	19056.8	18669.7	18044.4	16929.5	15493.6	13826.1
10°	16863.3	16939.4	17343.0	17697.0	18653.2	19209.0	19073.4	18153.6	16413.4	14226.5
12.5°	14901.4	14812.1	15099.9	15500.2	16611.9	18266.1	19500.2	19175.9	17465.5	14679.7
15°	13670.6	13634.2	13796.4	13981.6	14828.6	16496.1	19003.9	20006.4	18477.9	15215.7
17.5°	13276.9	13247.1	13296.8	13343.1	13892.3	15182.6	17822.8	20515.9	19447.2	15827.8
20°	13597.8	13558.1	13551.5	13515.1	13743.4	14623.5	16754.1	20552.3	20317.4	16383.6
22.5°	14534.1	14487.8	14325.7	14180.1	14200.0	14699.6	16277.7	20188.3	20972.4	16903.0
25°	16231.4	16155.3	15817.8	15328.2	15017.2	15228.9	16350.5	19708.6	21597.7	17310.0
27.5°	18355.4	18256.2	17822.8	17094.9	16383.6	16125.5	16876.5	19377.8	22117.2	17621.0
30°	20436.5	20307.4	19880.6	19314.9	18276.0	17462.1	17826.1	19523.3	22735.9	17945.2
32.5°	22682.9	22560.5	21994.8	21293.4	20433.2	19338.1	19126.3	20234.7	23493.5	18398.4
35°	25524.9	25333.0	24529.1	23572.9	22659.8	21551.4	20886.4	21462.1	24502.6	19089.9
37.5°	28760.6	28502.5	27635.7	26315.6	25124.6	23883.9	23030.3	23149.4	25981.5	20016.3
40°	31811.0	31576.1	30775.5	29531.5	28036.0	26530.7	25620.9	25356.2	28022.8	21144.5
42.5°	33640.6	33428.9	33091.4	32565.4	31304.8	29769.7	28621.6	28049.3	30438.0	22494.3
45°	33743.2	33557.9	34011.2	34623.2	34375.1	33352.8	31953.3	30904.5	32863.1	23761.5
47.5°	32102.2	31976.4	33352.8	35490.0	36555.4	36985.5	35695.2	33521.5	34864.7	24671.3
50°	27629.1	27582.8	30414.8	34338.7	37385.8	40168.2	39642.2	35956.5	36416.4	25141.1
52.5°	23956.7	23788.0	25438.9	30653.1	36178.2	41842.3	43499.9	38345.3	37501.6	25230.5
55°	18170.2	18021.3	20092.4	24486.0	32284.1	41246.8	46322.0	40810.1	38279.1	25002.2
57.5°	9746.8	9654.1	12271.1	16297.6	25237.1	37673.6	46831.5	43417.2	38934.2	24396.7
60°	3794.8	3778.3	4757.6	7907.3	15338.1	30649.7	44260.8	44982.1	39344.4	23652.3
62.5°	2296.1	2345.7	2504.5	3550.0	6775.8	19040.3	38335.3	43202.1	39619.0	22970.8
65°	1899.1	1902.4	1922.2	2438.3	3245.6	7966.8	28859.9	37346.1	38940.8	21756.6
67.5°	1627.8	1657.5	1733.6	1935.5	2289.5	3493.8	16615.2	28929.3	34815.1	18931.1
70°	1283.7	1323.4	1419.3	1591.4	1766.7	2186.9	6140.5	19248.7	26596.9	14269.5
72.5°	1081.9	1078.6	1128.2	1293.6	1402.8	1538.4	2362.3	10785.6	15457.2	6812.2
75°	837.0	870.1	933.0	1081.9	1148.0	1115.0	1280.4	3940.4	5538.4	2064.5
77.5°	655.1	681.5	737.8	883.4	949.5	790.7	737.8	1409.4	1780.0	741.1
80°	294.5	317.6	502.9	651.8	774.2	545.9	400.3	721.2	790.7	337.5
82.5°	52.9	89.3	294.5	344.1	397.0	354.0	208.4	373.9	387.1	135.6
85°	3.3	6.6	102.6	125.7	158.8	115.8	62.9	148.9	129.0	46.3
87.5°	0.0	0.0	0.0	3.3	3.3	16.5	19.9	26.5	19.9	16.5
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°
12929.5	0°	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5	12929.5
12959.3	2.5°	12721.1	12251.3	11794.7	11420.9	11202.5	10832.0	10587.1	10547.4	10444.9	10534.2
12992.4	5°	12476.3	11635.9	10785.6	10024.7	9399.4	8592.1	7990.0	7735.2	7513.6	7589.6
13078.4	7.5°	12360.5	11033.8	9710.4	8410.2	7073.5	5783.2	4823.8	4423.4	4119.1	4162.1
13174.4	10°	12205.0	10408.5	8334.1	6349.0	4559.1	3285.3	2623.6	2378.8	2243.1	2246.5
13316.6	12.5°	12085.9	9660.8	6736.1	4304.3	2775.8	2097.6	1892.4	1832.9	1793.2	1796.5
13531.7	15°	12026.3	8780.7	5157.9	2868.5	1985.1	1776.7	1727.0	1700.6	1674.1	1670.8
13769.9	17.5°	11927.1	7801.4	3775.0	2094.3	1737.0	1664.2	1621.2	1591.4	1558.3	1551.7
13975.0	20°	11778.2	6689.7	2759.3	1770.0	1627.8	1571.5	1512.0	1472.3	1432.6	1426.0
14104.0	22.5°	11503.6	5515.2	2120.7	1637.7	1548.4	1485.5	1412.7	1366.4	1326.7	1320.1
14041.2	25°	10994.1	4413.5	1786.6	1555.0	1478.9	1402.8	1323.4	1260.5	1224.1	1217.5
13905.5	27.5°	10348.9	3467.3	1621.2	1478.9	1389.6	1320.1	1230.8	1171.2	1138.1	1131.5
13726.9	30°	9588.0	2669.9	1525.2	1392.9	1283.7	1224.1	1144.7	1095.1	1075.3	1075.3
13601.2	32.5°	8767.5	2134.0	1485.5	1306.8	1191.1	1124.9	1062.0	1042.2	1035.6	1032.2
13670.6	35°	7996.6	1852.7	1465.7	1237.4	1108.3	1045.5	1019.0	1022.3	1035.6	1035.6
13885.7	37.5°	7311.7	1763.4	1455.7	1187.7	1035.6	979.3	995.9	1025.6	1012.4	1012.4
14262.8	40°	6693.1	1773.3	1449.1	1151.4	976.0	942.9	976.0	952.8	919.8	916.4
14722.7	42.5°	6219.9	1856.1	1435.9	1121.6	939.6	916.4	903.2	866.8	863.5	870.1
15199.1	45°	5875.9	1928.8	1432.6	1108.3	899.9	856.9	840.4	804.0	870.1	886.7
15394.3	47.5°	5468.9	1928.8	1432.6	1062.0	833.7	817.2	790.7	751.0	817.2	833.7
15209.1	50°	4942.9	1806.4	1376.3	1009.1	780.8	770.9	724.6	674.9	661.7	671.6
14775.7	52.5°	4277.9	1584.8	1234.1	936.3	727.9	708.0	651.8	615.4	605.5	605.5
13998.2	55°	3520.2	1326.7	1042.2	830.4	671.6	635.2	595.5	579.0	569.1	562.4
12909.7	57.5°	2861.8	1088.5	837.0	737.8	618.7	572.4	559.1	539.3	522.7	512.8
11999.9	60°	2349.0	856.9	691.5	655.1	565.7	522.7	519.4	493.0	450.0	443.3
11248.8	62.5°	1813.0	628.6	582.3	569.1	512.8	476.4	469.8	416.9	350.7	337.5
10183.5	65°	1280.4	489.7	469.8	499.6	456.6	423.5	406.9	327.5	258.1	248.1
8522.6	67.5°	899.9	410.3	370.5	436.7	397.0	354.0	344.1	277.9	215.1	208.4
6444.9	70°	641.8	334.2	304.4	373.9	317.6	311.0	291.1	231.6	175.3	168.7
3189.4	72.5°	453.3	254.8	234.9	324.2	218.4	268.0	238.2	178.7	132.3	125.7
1085.2	75°	334.2	182.0	165.4	188.6	158.8	201.8	168.7	119.1	82.7	79.4
489.7	77.5°	244.8	115.8	99.3	92.6	92.6	125.7	92.6	49.6	36.4	33.1
248.1	80°	172.0	52.9	46.3	39.7	36.4	29.8	13.2	6.6	3.3	3.3
86.0	82.5°	102.6	23.2	23.2	16.5	9.9	0.0	0.0	0.0	0.0	0.0
33.1	85°	23.2	9.9	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
13.2	87.5°	3.3	3.3	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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