

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: P954650

Luminaire Tested: **GALN-SB7D-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55057 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

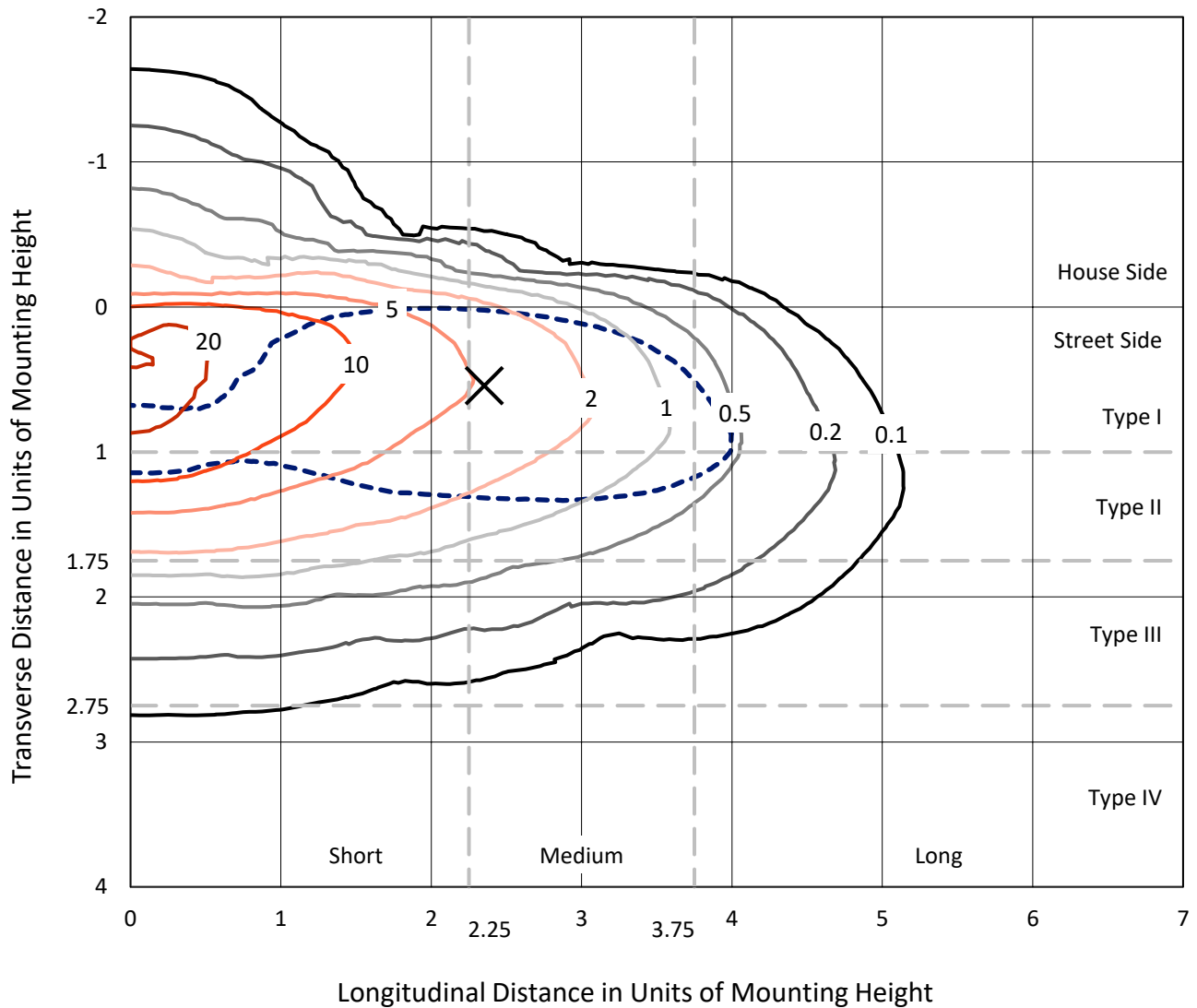
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

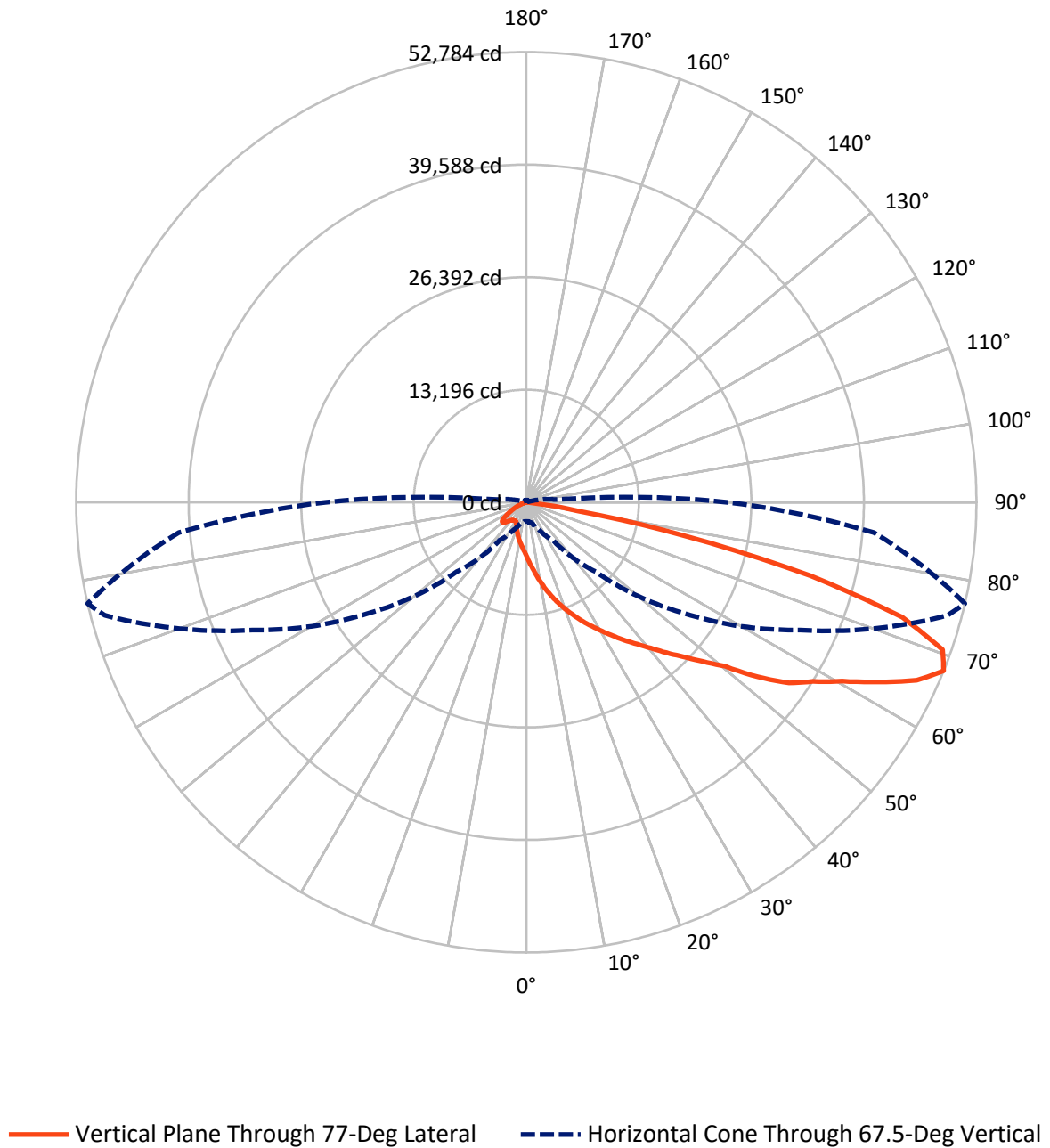
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4050.6	0.0	4050.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	51006.4	0.0	51006.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	55057.0	0.0	55057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.0	1.2
10°-20°	2269.2	4.1
20°-30°	4379.0	8.0
30°-40°	7602.2	13.8
40°-50°	11038.0	20.0
50°-60°	12675.8	23.0
60°-70°	11004.9	20.0
70°-80°	5183.4	9.4
80°-90°	256.3	0.5
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°	55057.0	100.0
0°-180°	55057.0	100.0

Coefficient of Utilization



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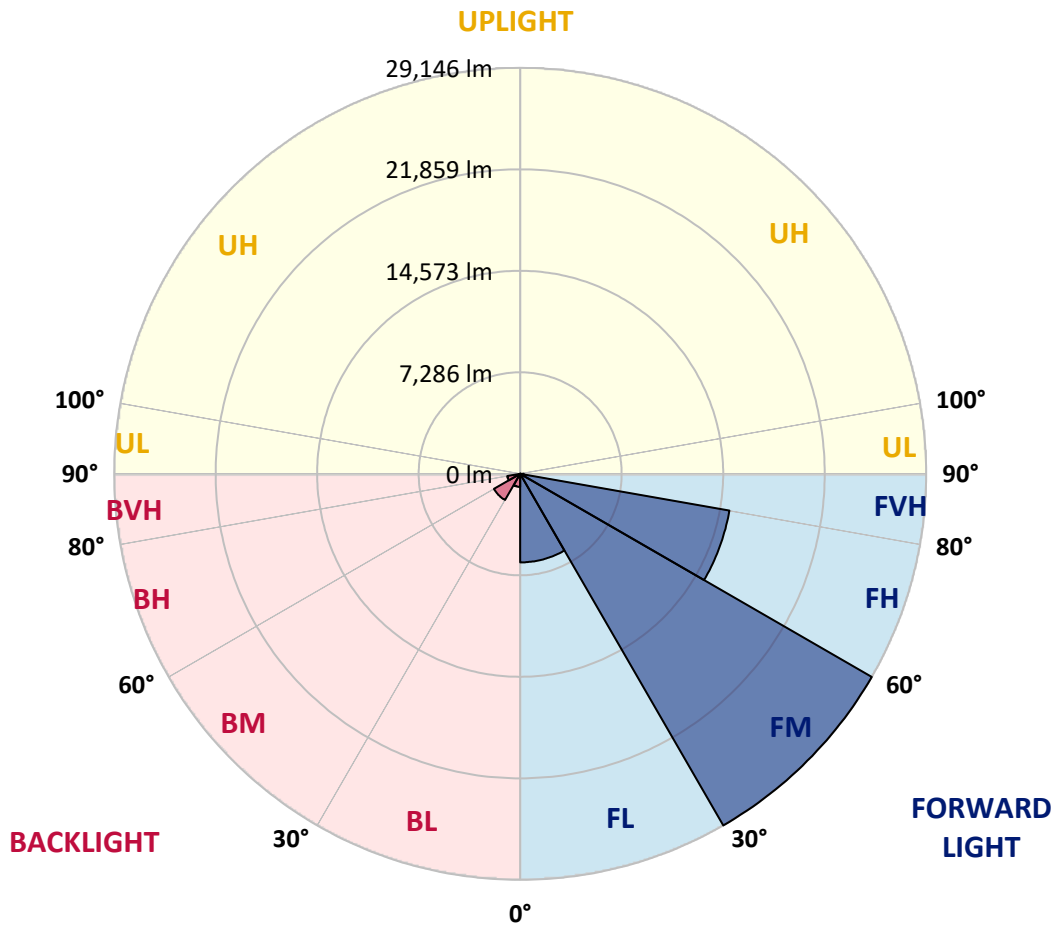
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6358.5	11.5			
FM (30°-60°)	29145.7	52.9			
FH (60°-80°)	15250.6	27.7			G5
FVH (80°-90°)	251.6	0.5			G3/500
BL (0°-30°)	937.8	1.7	B2/1000		
BM (30°-60°)	2170.3	3.9	B2/2500		
BH (60°-80°)	937.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9
2.5°	8790.0	8844.7	8766.0	8615.6	8390.0	8242.9	7884.0	7545.5	7169.4	7049.8
5°	10714.8	10762.7	10673.8	10509.7	10208.8	9921.6	9449.8	8742.1	8007.0	7771.1
7.5°	12140.5	12167.8	12133.6	11983.2	11696.0	11371.2	10844.7	10007.1	8916.5	8656.6
10°	13166.2	13255.0	13244.8	13186.7	12995.2	12732.0	12171.3	11217.4	9935.3	9600.2
12.5°	13846.5	13945.7	14003.8	14133.7	14123.4	13955.9	13463.6	12455.0	10950.7	10557.5
15°	14044.8	14150.8	14373.0	14673.9	14940.6	15026.0	14680.7	13668.7	12068.7	11566.1
17.5°	13932.0	14096.1	14362.8	14838.0	15422.6	15809.0	15771.3	14841.4	13084.1	12509.7
20°	14181.6	14338.8	14547.4	14947.4	15627.8	16328.6	16609.0	15962.8	14092.7	13490.9
22.5°	15562.8	15535.4	15556.0	15620.9	16027.8	16721.8	17299.6	16981.6	15091.0	14475.6
25°	17750.9	17627.8	17419.3	17067.1	16964.5	17299.6	17901.3	17884.2	16144.0	15484.2
27.5°	20260.4	20239.8	19750.9	18903.1	18424.4	18294.5	18581.7	18762.9	17186.8	16482.5
30°	22663.8	22718.5	22058.7	21115.1	20236.4	19727.0	19467.2	19597.1	18246.6	17559.4
32.5°	24756.2	24814.3	24096.3	22992.0	21904.8	21289.4	20742.4	20421.0	19402.2	18653.5
35°	26523.8	26581.9	25757.9	24537.4	23378.4	22821.1	22202.3	21323.6	20564.6	19867.2
37.5°	28103.3	28086.2	26981.9	25751.1	24612.6	24171.6	23846.8	22434.8	21761.2	21087.7
40°	29036.6	29108.4	28164.8	26807.5	25703.2	25381.9	25361.3	23812.6	23142.5	22489.5
42.5°	29310.2	29436.7	28752.9	27638.3	26636.6	26287.9	26824.6	25303.2	24749.4	24113.4
45°	28817.8	28940.9	28629.8	27857.1	27272.5	27046.9	28082.8	26848.6	26465.6	25836.6
47.5°	27381.9	27535.8	27611.0	27446.9	27440.0	27669.1	29211.0	28475.9	28503.3	27860.5
50°	24602.3	24862.2	25552.8	26134.0	27033.2	28161.4	30308.5	30240.1	30800.8	30246.9
52.5°	19549.2	19918.5	22298.0	23887.8	25908.4	28069.1	31515.3	33070.9	34831.7	34021.4
55°	15709.8	15709.8	17644.9	20619.3	23713.4	27460.5	32041.9	34910.3	37577.0	37385.6
57.5°	12807.2	12961.0	14195.2	16824.4	20537.3	26010.9	32366.6	36065.9	39789.1	39648.9
60°	7904.5	8236.1	10567.8	13162.7	16923.5	23429.7	32161.5	37235.1	42472.9	42585.7
62.5°	4451.4	4574.5	5613.8	9470.3	13159.3	19959.5	30592.2	37888.2	45905.5	46384.1
65°	3073.6	3135.1	3535.1	5894.2	9121.6	15891.0	27525.5	37481.3	49344.9	50312.4
67.5°	2232.5	2263.3	2512.9	3600.1	5412.1	11521.7	22718.5	35430.0	51167.1	52784.3
70°	1716.3	1736.8	1918.0	2365.9	3196.7	7111.3	16499.6	31351.2	49847.4	51779.1
72.5°	1394.9	1415.4	1555.6	1750.5	2119.7	4205.2	10000.3	25460.5	44021.6	46107.2
75°	1176.1	1203.4	1329.9	1456.4	1661.6	2700.9	4690.7	17730.4	33105.1	34472.7
77.5°	653.0	601.7	1080.4	1206.9	1401.7	1709.4	2194.9	10434.5	18540.6	18920.1
80°	406.8	420.5	858.1	971.0	1077.0	861.6	1005.2	4017.2	6427.5	6106.1
82.5°	23.9	54.7	659.8	700.9	738.5	369.2	379.5	1364.1	1548.8	1422.3
85°	0.0	0.0	300.9	242.7	256.4	106.0	109.4	318.0	208.6	225.6
87.5°	0.0	0.0	0.0	6.8	0.0	10.3	20.5	27.4	10.3	13.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6348.9	0°	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9	6348.9
6673.7	2.5°	6434.4	6195.0	5709.5	5234.3	4848.0	4489.0	4232.6	3989.8	3866.8	3859.9
7104.5	5°	6629.2	6126.7	5155.7	4297.5	3606.9	3053.1	2694.1	2437.7	2307.8	2263.3
7634.4	7.5°	6902.7	6147.2	4670.2	3477.0	2663.3	2188.1	1983.0	1900.9	1873.6	1842.8
8232.7	10°	7248.0	6195.0	4236.0	2800.1	2099.2	1859.9	1777.8	1743.6	1723.1	1702.6
8906.2	12.5°	7634.4	6239.5	3805.2	2324.8	1846.2	1723.1	1665.0	1624.0	1596.6	1572.7
9596.8	15°	8010.5	6266.8	3357.4	1993.2	1716.3	1617.1	1555.6	1511.2	1473.5	1446.2
10273.8	17.5°	8383.1	6304.4	2936.8	1794.9	1610.3	1511.2	1449.6	1394.9	1364.1	1333.4
10984.9	20°	8796.8	6297.6	2540.2	1654.7	1504.3	1405.2	1340.2	1288.9	1258.2	1224.0
11737.1	22.5°	9179.7	6263.4	2191.5	1535.1	1394.9	1299.2	1227.4	1176.1	1145.3	1118.0
12506.3	25°	9620.8	6236.1	1900.9	1425.7	1292.3	1196.6	1118.0	1070.1	1035.9	1012.0
13279.0	27.5°	10044.7	6195.0	1688.9	1326.5	1193.2	1100.9	1025.7	971.0	940.2	923.1
14075.6	30°	10461.8	6184.8	1610.3	1230.8	1104.3	1012.0	936.8	885.5	861.6	854.7
14950.8	32.5°	10964.4	6212.1	1644.5	1196.6	1022.2	929.9	858.1	820.5	796.6	796.6
15925.2	35°	11501.2	6205.3	1695.8	1227.4	967.5	847.9	793.2	769.3	745.3	745.3
17005.6	37.5°	12174.7	6215.5	1736.8	1278.7	947.0	779.5	748.7	718.0	704.3	704.3
18188.5	40°	13179.8	6554.0	1716.3	1323.1	940.2	731.6	670.1	659.8	649.6	649.6
19525.3	42.5°	14410.6	7289.1	1743.6	1326.5	936.8	697.5	615.4	635.9	612.0	608.6
21033.0	45°	15757.7	8092.5	1918.0	1254.7	933.4	680.4	588.0	612.0	574.4	574.4
22780.1	47.5°	17094.5	8889.1	2095.8	1152.2	923.1	676.9	564.1	550.4	540.2	543.6
25057.1	50°	18937.2	9538.7	2164.2	1012.0	899.2	670.1	519.7	523.1	516.3	523.1
28267.4	52.5°	20944.1	9675.5	2082.1	854.7	830.8	649.6	488.9	502.6	499.2	506.0
30527.3	55°	22195.4	9528.5	1719.7	711.1	724.8	567.5	458.1	485.5	485.5	485.5
32735.9	57.5°	23487.8	8902.8	1220.5	577.8	601.7	465.0	430.8	468.4	465.0	461.6
35395.8	60°	24417.7	7890.8	803.4	475.2	478.6	382.9	400.0	441.0	437.6	420.5
38137.7	62.5°	25111.8	6772.8	516.3	403.4	365.8	345.3	365.8	400.0	386.3	348.7
40462.6	65°	25033.1	5224.1	396.6	345.3	300.9	300.9	318.0	348.7	307.7	246.2
40907.0	67.5°	23573.3	3535.1	328.2	290.6	253.0	249.6	263.3	290.6	263.3	208.6
38630.1	70°	20964.6	2311.2	263.3	225.6	201.7	184.6	212.0	249.6	222.2	167.5
32886.3	72.5°	17015.8	1408.6	198.3	164.1	147.0	119.7	167.5	205.1	177.8	123.1
22869.0	75°	11008.8	718.0	136.8	106.0	78.6	71.8	123.1	153.9	123.1	75.2
10147.3	77.5°	4212.1	300.9	75.2	47.9	41.0	34.2	68.4	92.3	51.3	17.1
1965.9	80°	810.3	126.5	37.6	23.9	20.5	13.7	10.3	6.8	0.0	0.0
348.7	82.5°	140.2	41.0	13.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0
68.4	85°	47.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.9	87.5°	17.1	0.0	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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180°
6348.9
3853.1
2256.5
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1695.8
1565.9
1442.8
1329.9
1220.5
1114.6
1008.6
923.1
851.3
796.6
745.3
704.3
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605.1
574.4
543.6
523.1
506.0
485.5
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