

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: P954293

Luminaire Tested: **GALN-SB7C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954293
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-SB7C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 40519 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

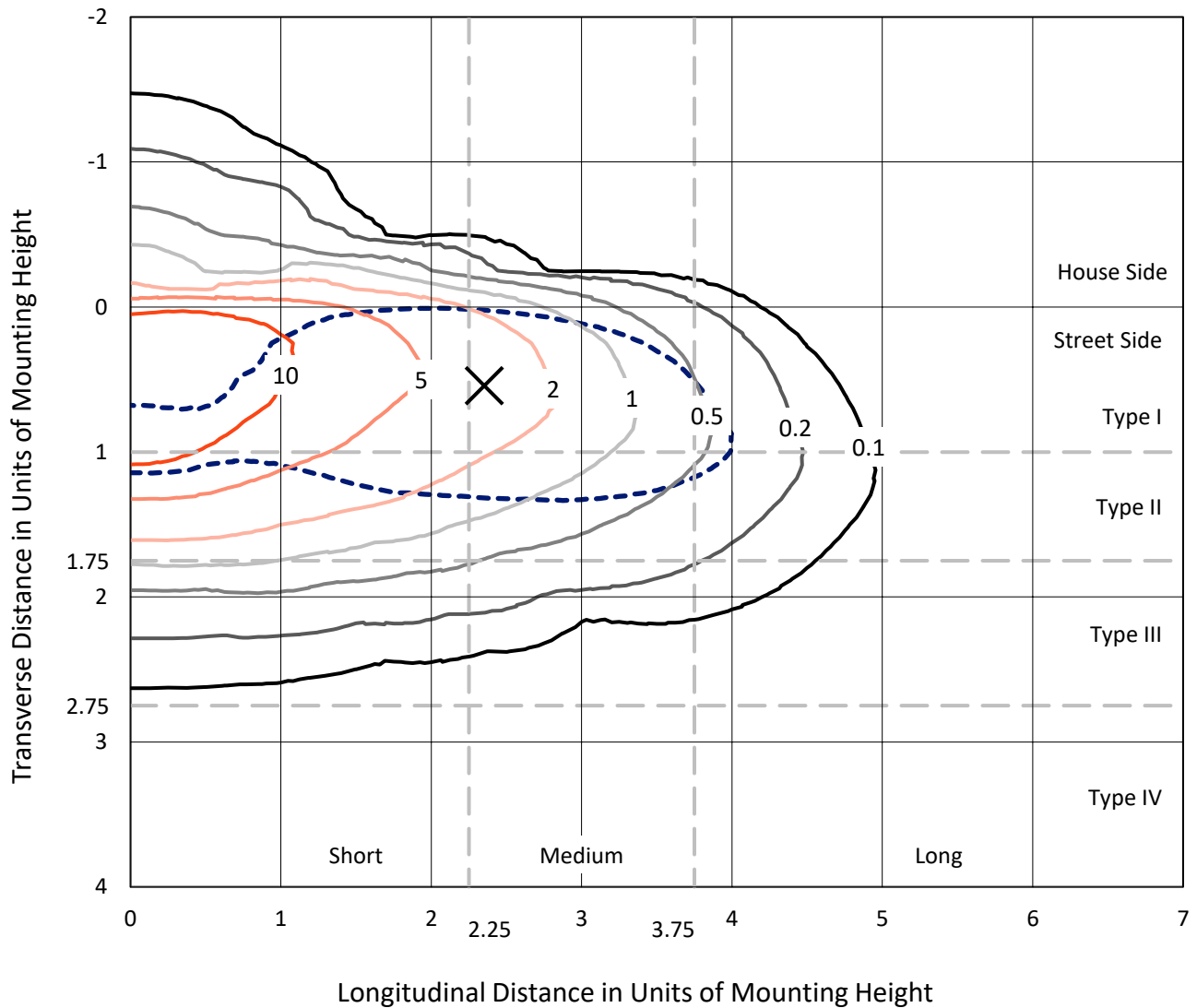
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

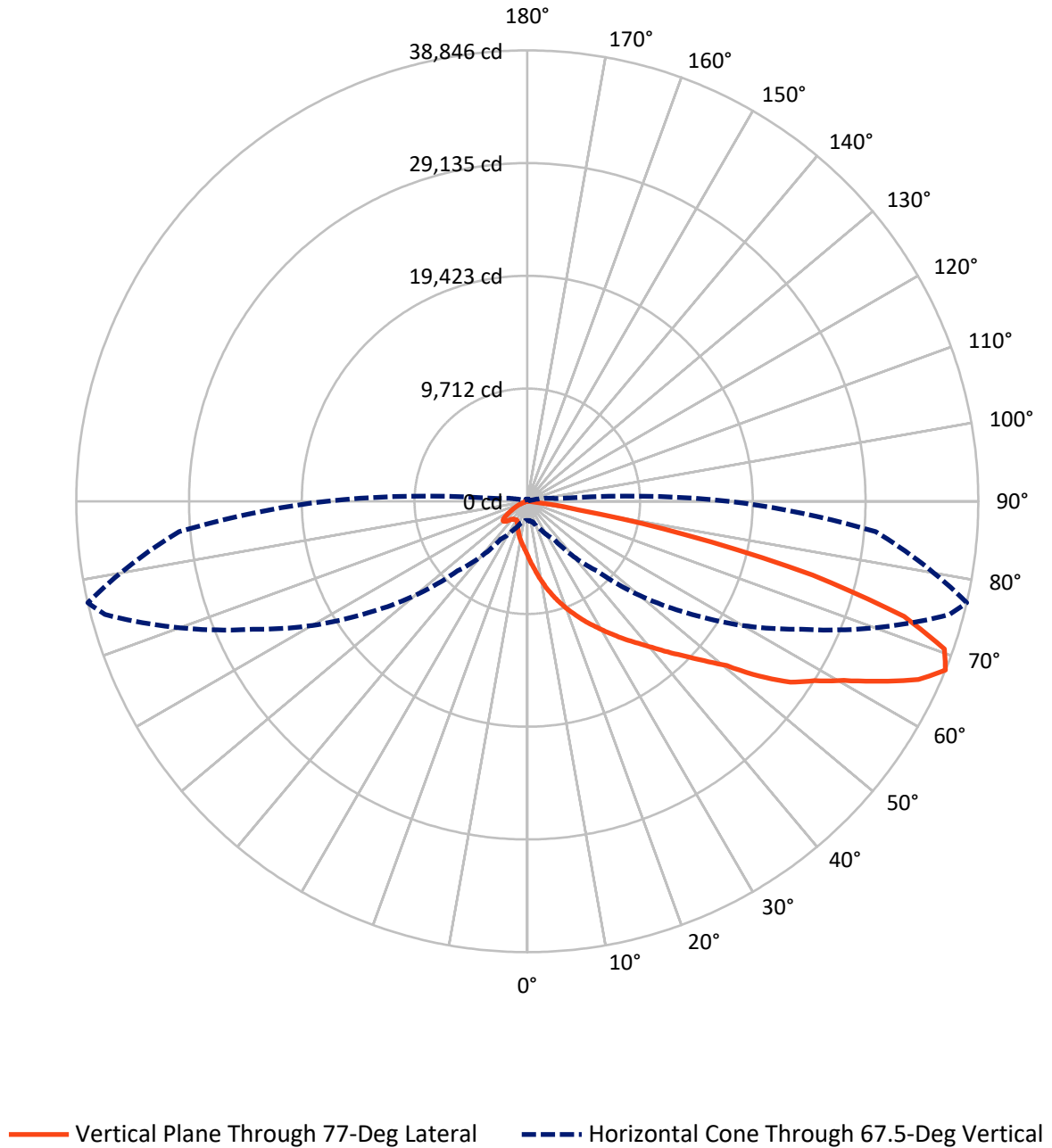
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	2981.0	0.0	2981.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	37538.0	0.0	37538.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	40519.0	0.0	40519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	1.2
10°-20°	1670.0	4.1
20°-30°	3222.7	8.0
30°-40°	5594.8	13.8
40°-50°	8123.4	20.0
50°-60°	9328.7	23.0
60°-70°	8099.0	20.0
70°-80°	3814.7	9.4
80°-90°	188.6	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°	40519.0	100.0
0°-180°	40519.0	100.0

Coefficient of Utilization



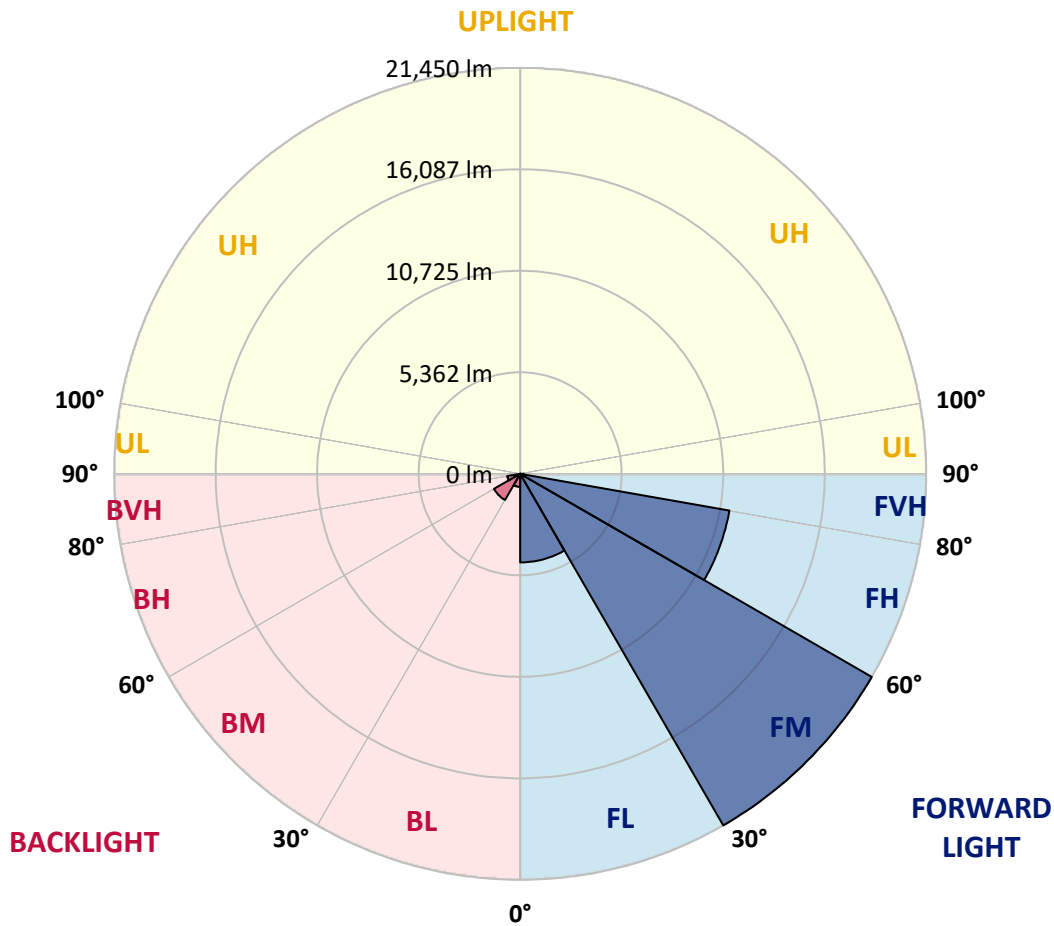
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4679.5	11.5			
FM (30°-60°)	21449.7	52.9			
FH (60°-80°)	11223.6	27.7			G4/12000
FVH (80°-90°)	185.2	0.5			G2/225
BL (0°-30°)	690.1	1.7	B2/1000		
BM (30°-60°)	1597.3	3.9	B2/2500		
BH (60°-80°)	690.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.5	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4
2.5°	6468.9	6509.2	6451.3	6340.6	6174.6	6066.4	5802.2	5553.1	5276.3	5188.2
5°	7885.5	7920.7	7855.3	7734.6	7513.1	7301.8	6954.6	6433.7	5892.8	5719.1
7.5°	8934.7	8954.9	8929.7	8819.0	8607.6	8368.6	7981.1	7364.7	6562.0	6370.8
10°	9689.6	9755.0	9747.5	9704.7	9563.8	9370.0	8957.4	8255.4	7311.8	7065.3
12.5°	10190.3	10263.3	10306.0	10401.6	10394.1	10270.8	9908.5	9166.2	8059.1	7769.8
15°	10336.2	10414.2	10577.8	10799.2	10995.4	11058.4	10804.2	10059.5	8881.9	8512.0
17.5°	10253.2	10374.0	10570.2	10920.0	11350.2	11634.5	11606.9	10922.5	9629.2	9206.5
20°	10436.9	10552.6	10706.1	11000.5	11501.2	12017.0	12223.3	11747.8	10371.4	9928.6
22.5°	11453.4	11433.3	11448.3	11496.2	11795.6	12306.3	12731.6	12497.6	11106.2	10653.3
25°	13063.7	12973.1	12819.6	12560.5	12485.0	12731.6	13174.4	13161.8	11881.1	11395.5
27.5°	14910.5	14895.4	14535.6	13911.6	13559.4	13463.8	13675.1	13808.5	12648.5	12130.2
30°	16679.4	16719.6	16234.0	15539.6	14892.9	14518.0	14326.8	14422.4	13428.5	12922.8
32.5°	18219.2	18262.0	17733.6	16920.9	16120.8	15667.9	15265.3	15028.8	14279.0	13728.0
35°	19520.1	19562.8	18956.5	18058.2	17205.2	16795.1	16339.7	15693.0	15134.5	14621.2
37.5°	20682.5	20669.9	19857.2	18951.4	18113.6	17789.0	17549.9	16510.8	16015.1	15519.4
40°	21369.4	21422.3	20727.8	19728.9	18916.2	18679.7	18664.6	17524.8	17031.6	16551.0
42.5°	21570.7	21663.8	21160.6	20340.3	19603.1	19346.5	19741.5	18621.8	18214.2	17746.2
45°	21208.4	21299.0	21070.0	20501.4	20071.1	19905.0	20667.4	19759.1	19477.3	19014.3
47.5°	20151.6	20264.8	20320.2	20199.4	20194.4	20363.0	21497.7	20956.8	20976.9	20503.9
50°	18106.0	18297.2	18805.5	19233.2	19895.0	20725.3	22305.4	22255.1	22667.7	22260.1
52.5°	14387.2	14658.9	16410.1	17580.1	19067.2	20657.4	23193.6	24338.4	25634.2	25037.9
55°	11561.6	11561.6	12985.7	15174.7	17451.8	20209.5	23581.1	25692.1	27654.7	27513.8
57.5°	9425.4	9538.6	10446.9	12381.8	15114.3	19142.6	23820.1	26542.6	29282.6	29179.5
60°	5817.3	6061.3	7777.3	9687.1	12454.8	17243.0	23669.1	27403.1	31257.8	31340.8
62.5°	3276.0	3366.6	4131.5	6969.7	9684.5	14689.1	22514.2	27883.7	33784.0	34136.2
65°	2262.0	2307.3	2601.7	4337.8	6713.0	11694.9	20257.3	27584.2	36315.2	37027.2
67.5°	1643.0	1665.7	1849.3	2649.5	3983.0	8479.3	16719.6	26074.6	37656.3	38846.4
70°	1263.1	1278.2	1411.5	1741.2	2352.6	5233.5	12142.8	23072.8	36685.0	38106.6
72.5°	1026.6	1041.7	1144.8	1288.3	1560.0	3094.8	7359.7	18737.6	32397.6	33932.4
75°	865.5	885.7	978.8	1071.9	1222.8	1987.7	3452.1	13048.6	24363.6	25370.0
77.5°	480.6	442.8	795.1	888.2	1031.6	1258.1	1615.3	7679.2	13644.9	13924.2
80°	299.4	309.5	631.5	714.6	792.6	634.1	739.7	2956.4	4730.3	4493.8
82.5°	17.6	40.3	485.6	515.8	543.5	271.7	279.3	1003.9	1139.8	1046.7
85°	0.0	0.0	221.4	178.6	188.7	78.0	80.5	234.0	153.5	166.1
87.5°	0.0	0.0	0.0	5.0	0.0	7.5	15.1	20.1	7.5	10.1
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4672.4	0°	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4	4672.4
4911.5	2.5°	4735.3	4559.2	4201.9	3852.2	3567.9	3303.7	3115.0	2936.3	2845.7	2840.7
5228.5	5°	4878.8	4508.9	3794.3	3162.8	2654.5	2246.9	1982.7	1794.0	1698.4	1665.7
5618.5	7.5°	5080.0	4524.0	3437.0	2558.9	1960.1	1610.3	1459.4	1399.0	1378.8	1356.2
6058.8	10°	5334.2	4559.2	3117.5	2060.7	1544.9	1368.8	1308.4	1283.2	1268.1	1253.0
6554.5	12.5°	5618.5	4591.9	2800.4	1711.0	1358.7	1268.1	1225.4	1195.2	1175.0	1157.4
7062.8	15°	5895.3	4612.0	2470.8	1466.9	1263.1	1190.1	1144.8	1112.1	1084.4	1064.3
7560.9	17.5°	6169.5	4639.7	2161.3	1321.0	1185.1	1112.1	1066.8	1026.6	1003.9	981.3
8084.3	20°	6474.0	4634.7	1869.5	1217.8	1107.1	1034.1	986.3	948.6	925.9	900.8
8637.8	22.5°	6755.8	4609.5	1612.8	1129.7	1026.6	956.1	903.3	865.5	842.9	822.8
9204.0	25°	7080.4	4589.4	1399.0	1049.2	951.1	880.6	822.8	787.5	762.4	744.8
9772.6	27.5°	7392.4	4559.2	1243.0	976.3	878.1	810.2	754.8	714.6	691.9	679.4
10358.9	30°	7699.3	4551.7	1185.1	905.8	812.7	744.8	689.4	651.7	634.1	629.0
11003.0	32.5°	8069.2	4571.8	1210.3	880.6	752.3	684.4	631.5	603.9	586.3	586.3
11720.1	35°	8464.2	4566.8	1248.0	903.3	712.1	624.0	583.7	566.1	548.5	548.5
12515.2	37.5°	8959.9	4574.3	1278.2	941.0	697.0	573.7	551.0	528.4	518.3	518.3
13385.8	40°	9699.6	4823.4	1263.1	973.7	691.9	538.4	493.2	485.6	478.1	478.1
14369.6	42.5°	10605.4	5364.4	1283.2	976.3	689.4	513.3	452.9	468.0	450.4	447.9
15479.2	45°	11596.8	5955.7	1411.5	923.4	686.9	500.7	432.8	450.4	422.7	422.7
16764.9	47.5°	12580.6	6541.9	1542.4	847.9	679.4	498.2	415.2	405.1	397.5	400.1
18440.6	50°	13936.8	7020.0	1592.7	744.8	661.7	493.2	382.5	385.0	379.9	385.0
20803.3	52.5°	15413.8	7120.6	1532.3	629.0	611.4	478.1	359.8	369.9	367.4	372.4
22466.4	55°	16334.7	7012.4	1265.6	523.4	533.4	417.7	337.2	357.3	357.3	357.3
24091.9	57.5°	17285.7	6552.0	898.3	425.2	442.8	342.2	317.0	344.7	342.2	339.7
26049.4	60°	17970.1	5807.2	591.3	349.7	352.3	281.8	294.4	324.6	322.1	309.5
28067.3	62.5°	18480.9	4984.4	379.9	296.9	269.2	254.1	269.2	294.4	284.3	256.6
29778.3	65°	18423.0	3844.6	291.9	254.1	221.4	221.4	234.0	256.6	226.5	181.2
30105.4	67.5°	17348.7	2601.7	241.5	213.9	186.2	183.7	193.7	213.9	193.7	153.5
28429.6	70°	15428.9	1700.9	193.7	166.1	148.5	135.9	156.0	183.7	163.5	123.3
24202.6	72.5°	12522.7	1036.6	145.9	120.8	108.2	88.1	123.3	151.0	130.8	90.6
16830.3	75°	8101.9	528.4	100.6	78.0	57.9	52.8	90.6	113.2	90.6	55.4
7467.8	77.5°	3099.9	221.4	55.4	35.2	30.2	25.2	50.3	67.9	37.7	12.6
1446.8	80°	596.3	93.1	27.7	17.6	15.1	10.1	7.5	5.0	0.0	0.0
256.6	82.5°	103.2	30.2	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
50.3	85°	35.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.6	87.5°	12.6	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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<u>180°</u>
4672.4
2835.7
1660.6
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742.3
679.4
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518.3
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