

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: P956246

Luminaire Tested: **GALN-SB8D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956246
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-SB8D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 48466 lumens
Efficiency: N/A
Efficacy: 82.9 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

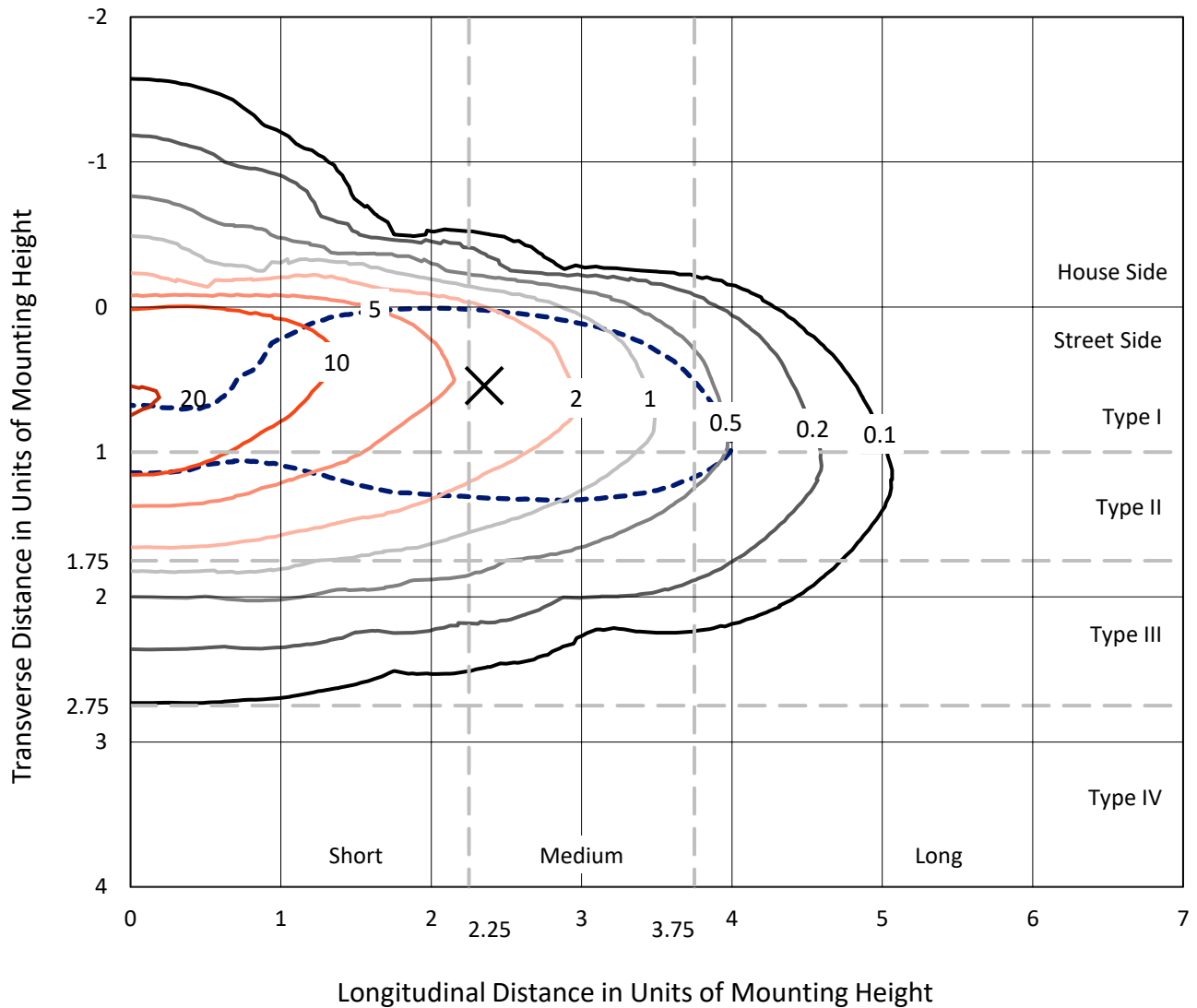
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

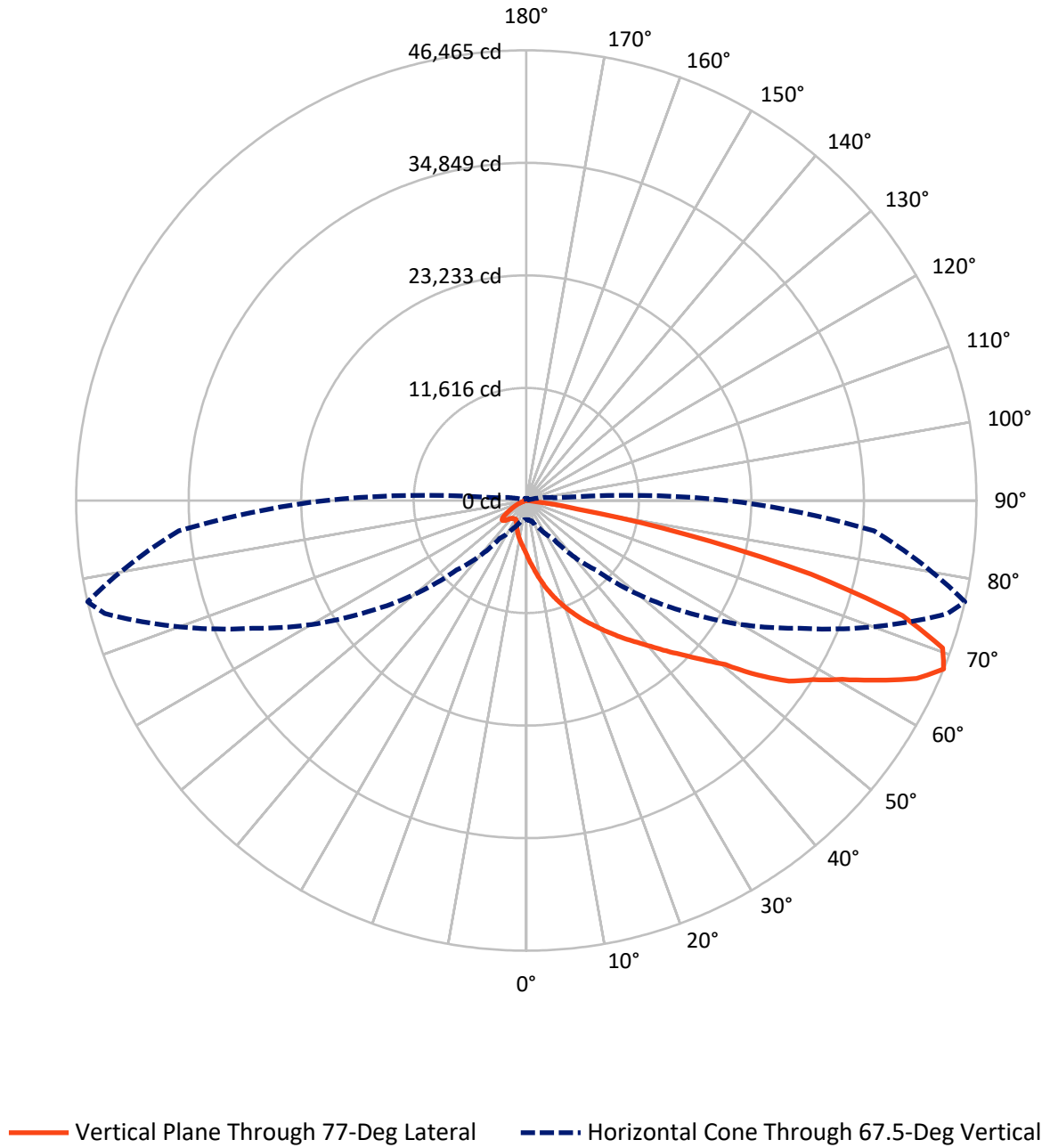
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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	3565.7	0.0	3565.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	44900.3	0.0	44900.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	48466.0	0.0	48466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	1.2
10°-20°	1997.6	4.1
20°-30°	3854.8	8.0
30°-40°	6692.1	13.8
40°-50°	9716.6	20.0
50°-60°	11158.3	23.0
60°-70°	9687.5	20.0
70°-80°	4562.9	9.4
80°-90°	225.7	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°	48466.0	100.0
0°-180°	48466.0	100.0

Coefficient of Utilization



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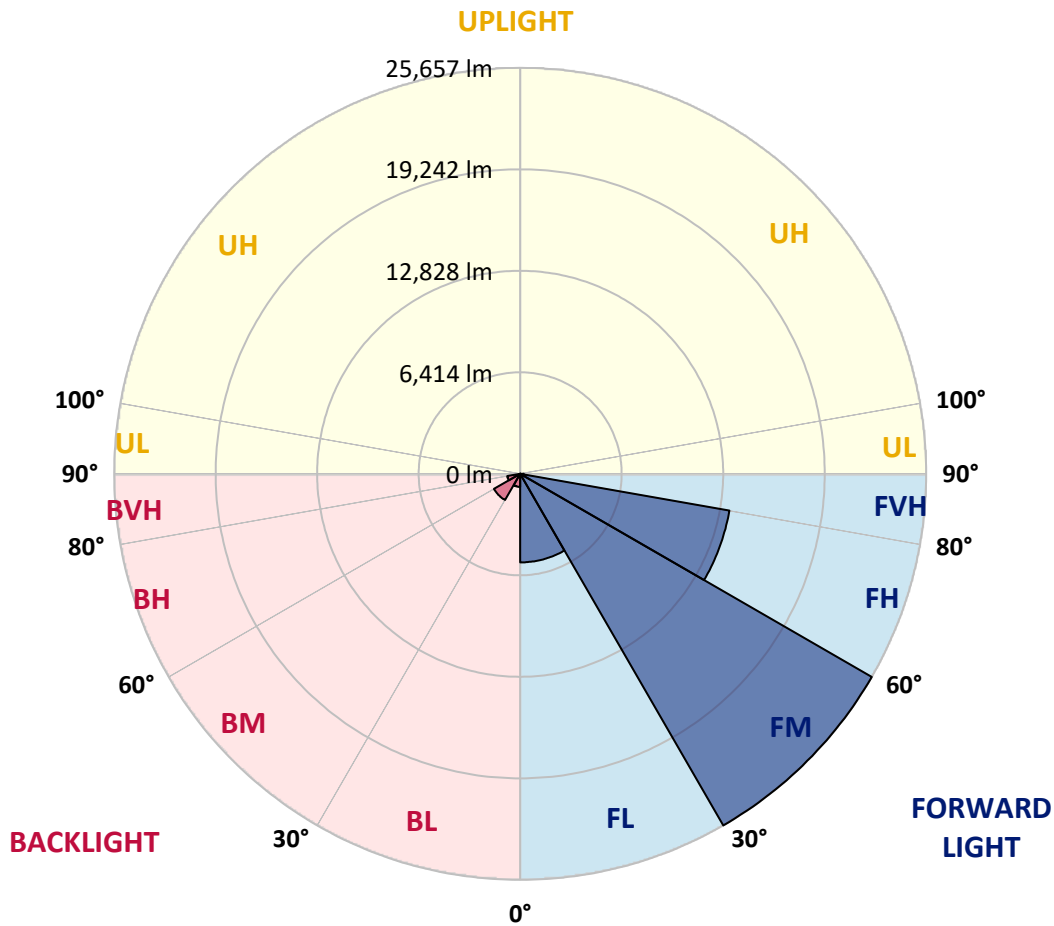
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5597.3	11.5			
FM (30°-60°)	25656.6	52.9			
FH (60°-80°)	13424.9	27.7			G5
FVH (80°-90°)	221.5	0.5			G2/225
BL (0°-30°)	825.5	1.7	B2/1000		
BM (30°-60°)	1910.5	3.9	B2/2500		
BH (60°-80°)	825.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8
2.5°	7737.7	7785.9	7716.6	7584.2	7385.6	7256.2	6940.2	6642.2	6311.1	6205.8
5°	9432.1	9474.2	9396.0	9251.5	8986.7	8733.9	8318.6	7695.6	7048.5	6840.8
7.5°	10687.1	10711.2	10681.1	10548.7	10295.9	10010.0	9546.5	8809.1	7849.1	7620.3
10°	11590.0	11668.3	11659.2	11608.1	11439.5	11207.8	10714.2	9874.5	8745.9	8451.0
12.5°	12188.9	12276.2	12327.4	12441.7	12432.7	12285.2	11851.8	10964.0	9639.8	9293.7
15°	12363.5	12456.8	12652.4	12917.2	13152.0	13227.2	12923.3	12032.4	10623.9	10181.5
17.5°	12264.2	12408.6	12643.4	13061.7	13576.3	13916.4	13883.3	13064.7	11517.8	11012.2
20°	12483.9	12622.3	12805.9	13158.0	13756.9	14373.9	14620.7	14051.9	12405.6	11875.9
22.5°	13699.7	13675.7	13693.7	13750.9	14109.0	14720.0	15228.6	14948.7	13284.4	12742.7
25°	15625.9	15517.5	15334.0	15024.0	14933.7	15228.6	15758.3	15743.3	14211.4	13630.5
27.5°	17834.9	17816.9	17386.5	16640.1	16218.8	16104.4	16357.2	16516.7	15129.3	14509.3
30°	19950.7	19998.8	19418.0	18587.3	17813.9	17365.4	17136.7	17251.1	16062.3	15457.3
32.5°	21792.6	21843.7	21211.7	20239.6	19282.6	18740.8	18259.3	17976.4	17079.5	16420.4
35°	23348.5	23399.7	22674.4	21600.0	20579.7	20089.1	19544.4	18770.9	18102.8	17488.8
37.5°	24739.0	24723.9	23751.8	22668.4	21666.2	21277.9	20992.0	19749.0	19156.2	18563.3
40°	25560.6	25623.8	24793.2	23598.3	22626.2	22343.3	22325.3	20961.9	20372.0	19797.2
42.5°	25801.4	25912.7	25310.8	24329.7	23447.9	23140.9	23613.4	22274.1	21786.6	21226.8
45°	25368.0	25476.3	25202.5	24522.3	24007.6	23809.0	24720.9	23634.5	23297.4	22743.6
47.5°	24104.0	24239.4	24305.6	24161.1	24155.1	24356.8	25714.1	25067.0	25091.1	24525.3
50°	21657.1	21885.9	22493.8	23005.4	23797.0	24790.1	26680.2	26620.0	27113.6	26626.0
52.5°	17208.9	17534.0	19628.7	21028.1	22806.8	24708.9	27742.6	29111.9	30661.9	29948.6
55°	13829.1	13829.1	15532.6	18150.9	20874.6	24173.2	28206.0	30731.1	33078.6	32910.1
57.5°	11274.0	11409.4	12495.9	14810.3	18078.7	22897.1	28492.0	31748.4	35025.8	34902.4
60°	6958.2	7250.1	9302.7	11587.0	14897.6	20624.8	28311.4	32777.6	37388.4	37487.7
62.5°	3918.5	4026.9	4941.8	8336.6	11584.0	17570.1	26930.0	33352.5	40410.0	40831.4
65°	2705.6	2759.8	3111.9	5188.6	8029.6	13988.7	24230.4	32994.3	43437.7	44289.4
67.5°	1965.3	1992.4	2212.1	3169.1	4764.2	10142.4	19998.8	31188.6	45041.8	46465.3
70°	1510.8	1528.9	1688.4	2082.6	2814.0	6260.0	14524.4	27598.1	43880.1	45580.5
72.5°	1227.9	1246.0	1369.4	1540.9	1866.0	3701.8	8803.1	22412.6	38751.7	40587.6
75°	1035.3	1059.4	1170.7	1282.1	1462.7	2377.6	4129.2	15607.8	29142.0	30345.9
77.5°	574.8	529.7	951.0	1062.4	1233.9	1504.8	1932.2	9185.3	16321.1	16655.2
80°	358.1	370.2	755.4	854.7	948.0	758.4	884.8	3536.3	5658.1	5375.2
82.5°	21.1	48.2	580.9	617.0	650.1	325.0	334.1	1200.8	1363.4	1252.0
85°	0.0	0.0	264.8	213.7	225.7	93.3	96.3	279.9	183.6	198.6
87.5°	0.0	0.0	0.0	6.0	0.0	9.0	18.1	24.1	9.0	12.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5588.8	0°	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8	5588.8
5874.8	2.5°	5664.1	5453.4	5026.0	4607.7	4267.6	3951.6	3725.9	3512.2	3403.9	3397.8
6254.0	5°	5835.6	5393.2	4538.5	3783.1	3175.1	2687.6	2371.6	2145.9	2031.5	1992.4
6720.5	7.5°	6076.4	5411.3	4111.1	3060.8	2344.5	1926.1	1745.6	1673.3	1649.3	1622.2
7247.1	10°	6380.4	5453.4	3728.9	2464.9	1847.9	1637.2	1565.0	1534.9	1516.8	1498.8
7840.0	12.5°	6720.5	5492.5	3349.7	2046.5	1625.2	1516.8	1465.7	1429.6	1405.5	1384.4
8448.0	15°	7051.5	5516.6	2955.4	1754.6	1510.8	1423.5	1369.4	1330.2	1297.1	1273.1
9043.9	17.5°	7379.6	5549.7	2585.3	1580.0	1417.5	1330.2	1276.1	1227.9	1200.8	1173.7
9669.9	20°	7743.7	5543.7	2236.1	1456.7	1324.2	1236.9	1179.8	1134.6	1107.5	1077.4
10332.0	22.5°	8080.8	5513.6	1929.2	1351.3	1227.9	1143.7	1080.4	1035.3	1008.2	984.1
11009.1	25°	8469.0	5489.5	1673.3	1255.0	1137.6	1053.4	984.1	942.0	911.9	890.8
11689.3	27.5°	8842.2	5453.4	1486.7	1167.7	1050.4	969.1	902.9	854.7	827.6	812.6
12390.6	30°	9209.4	5444.4	1417.5	1083.5	972.1	890.8	824.6	779.5	758.4	752.4
13161.0	32.5°	9651.8	5468.5	1447.6	1053.4	899.9	818.6	755.4	722.3	701.2	701.2
14018.8	35°	10124.3	5462.4	1492.8	1080.4	851.7	746.4	698.2	677.2	656.1	656.1
14969.8	37.5°	10717.2	5471.5	1528.9	1125.6	833.7	686.2	659.1	632.0	620.0	620.0
16011.1	40°	11602.0	5769.4	1510.8	1164.7	827.6	644.1	589.9	580.9	571.8	571.8
17187.9	42.5°	12685.5	6416.5	1534.9	1167.7	824.6	614.0	541.7	559.8	538.7	535.7
18515.1	45°	13871.3	7123.7	1688.4	1104.5	821.6	598.9	517.7	538.7	505.6	505.6
20053.0	47.5°	15048.0	7825.0	1844.9	1014.2	812.6	595.9	496.6	484.5	475.5	478.5
22057.4	50°	16670.2	8396.8	1905.1	890.8	791.5	589.9	457.5	460.5	454.5	460.5
24883.4	52.5°	18436.9	8517.2	1832.9	752.4	731.3	571.8	430.4	442.4	439.4	445.4
26872.8	55°	19538.4	8387.8	1513.8	626.0	638.0	499.6	403.3	427.4	427.4	427.4
28817.0	57.5°	20676.0	7837.0	1074.4	508.6	529.7	409.3	379.2	412.3	409.3	406.3
31158.5	60°	21494.6	6946.2	707.3	418.3	421.3	337.1	352.1	388.2	385.2	370.2
33572.2	62.5°	22105.6	5962.0	454.5	355.1	322.0	304.0	322.0	352.1	340.1	307.0
35618.7	65°	22036.4	4598.7	349.1	304.0	264.8	264.8	279.9	307.0	270.9	216.7
36010.0	67.5°	20751.2	3111.9	288.9	255.8	222.7	219.7	231.7	255.8	231.7	183.6
34005.6	70°	18454.9	2034.5	231.7	198.6	177.6	162.5	186.6	219.7	195.6	147.5
28949.4	72.5°	14978.8	1240.0	174.6	144.5	129.4	105.3	147.5	180.6	156.5	108.3
20131.3	75°	9690.9	632.0	120.4	93.3	69.2	63.2	108.3	135.4	108.3	66.2
8932.5	77.5°	3707.8	264.8	66.2	42.1	36.1	30.1	60.2	81.3	45.1	15.0
1730.5	80°	713.3	111.4	33.1	21.1	18.1	12.0	9.0	6.0	0.0	0.0
307.0	82.5°	123.4	36.1	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
60.2	85°	42.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.1	87.5°	15.0	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>
5588.8
3391.8
1986.3
1616.2
1492.8
1378.4
1270.1
1170.7
1074.4
981.1
887.8
812.6
749.4
701.2
656.1
620.0
571.8
532.7
505.6
478.5
460.5
445.4
427.4
406.3
370.2
301.0
210.7
177.6
141.5
102.3
57.2
12.0
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