

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: P955784

Luminaire Tested: **GALN-SB8C-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955784
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-SB8C-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 49044 lumens
Efficiency: N/A
Efficacy: 122.7 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

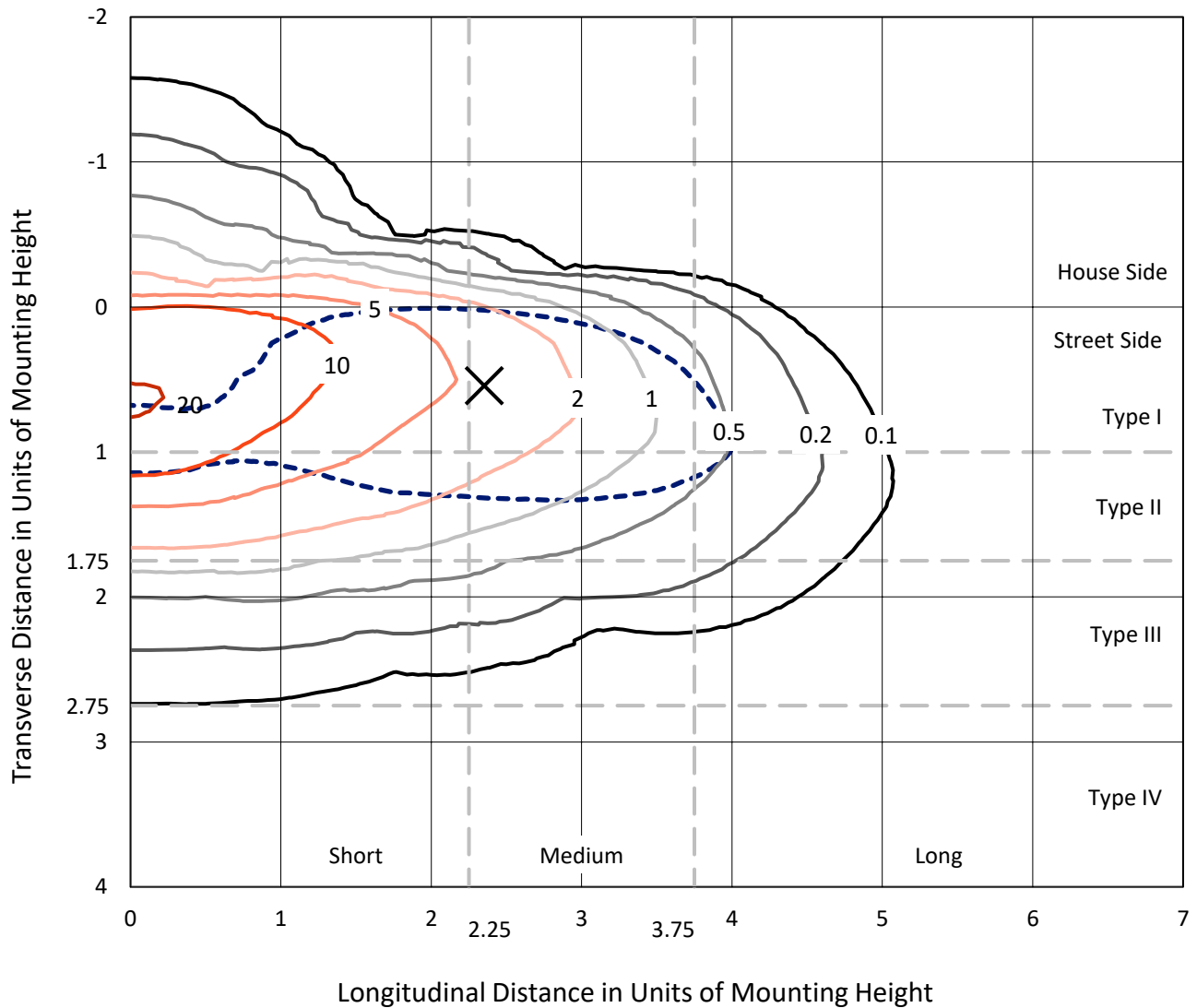
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

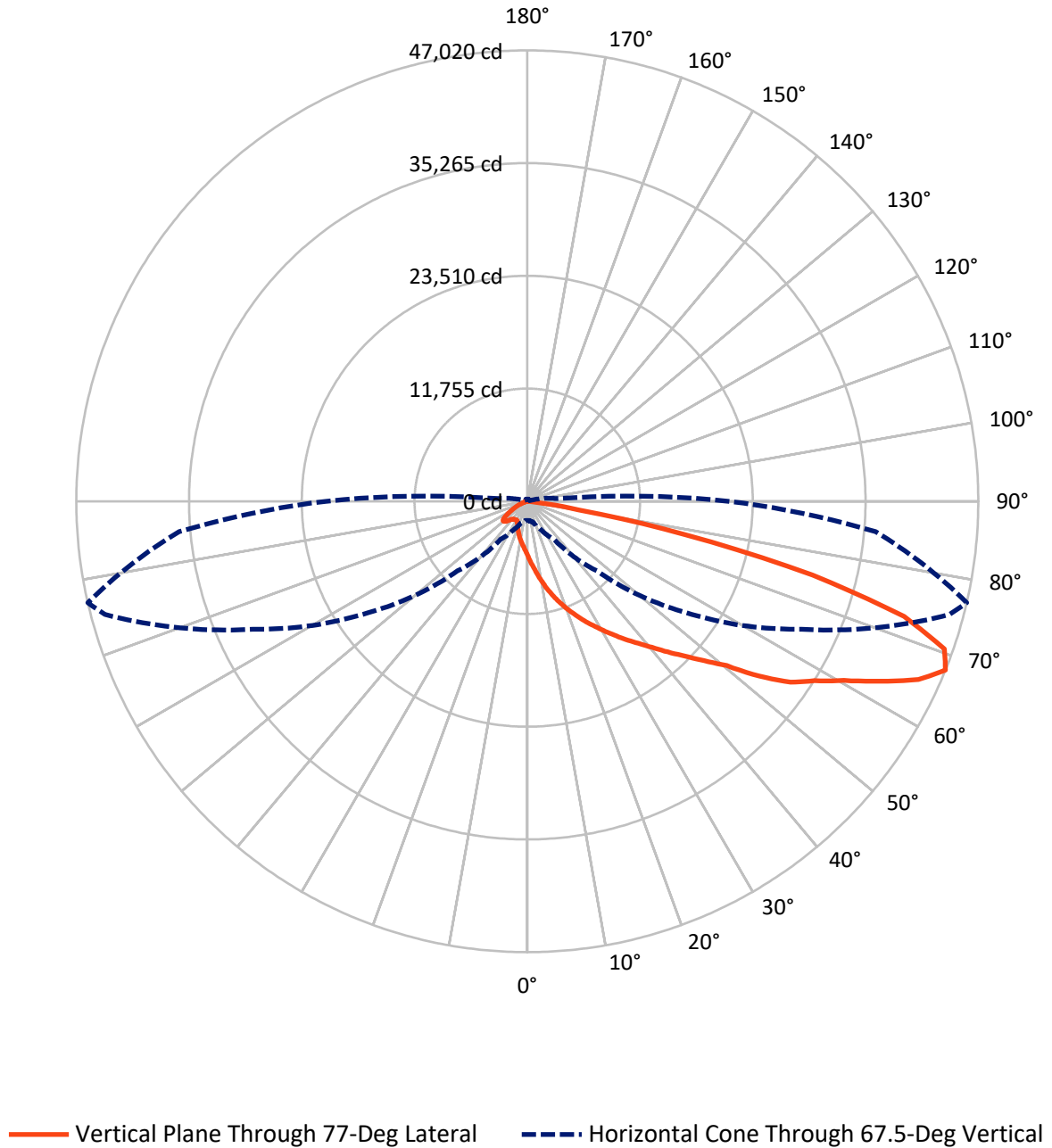
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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	3608.2	0.0	3608.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	45435.8	0.0	45435.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	49044.0	0.0	49044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.2	1.2
10°-20°	2021.4	4.1
20°-30°	3900.8	8.0
30°-40°	6772.0	13.8
40°-50°	9832.5	20.0
50°-60°	11291.4	23.0
60°-70°	9803.0	20.0
70°-80°	4617.3	9.4
80°-90°	228.3	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°	49044.0	100.0
0°-180°	49044.0	100.0

Coefficient of Utilization



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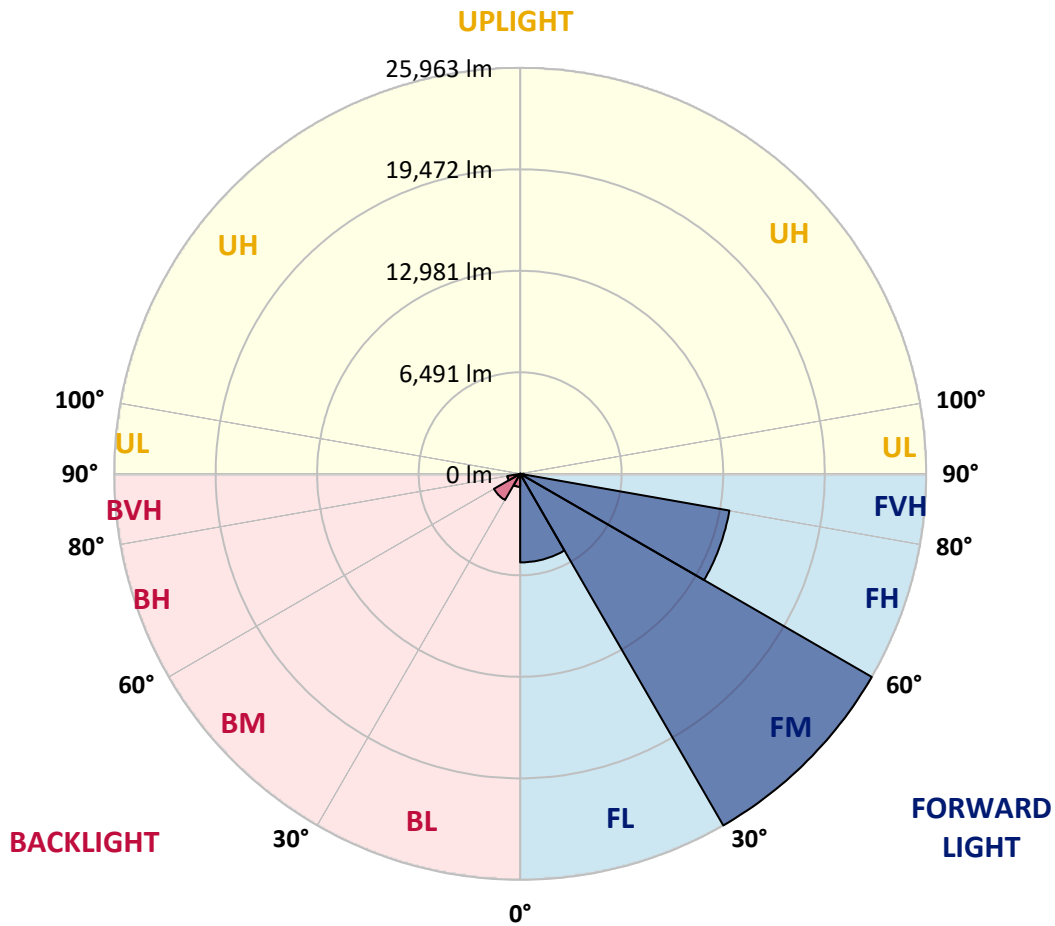
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5664.1	11.5			
FM (30°-60°)	25962.6	52.9			
FH (60°-80°)	13585.0	27.7			G5
FVH (80°-90°)	224.1	0.5			G2/225
BL (0°-30°)	835.4	1.7	B2/1000		
BM (30°-60°)	1933.3	3.9	B2/2500		
BH (60°-80°)	835.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5
2.5°	7830.0	7878.7	7808.7	7674.7	7473.7	7342.7	7022.9	6721.4	6386.4	6279.8
5°	9544.6	9587.2	9508.1	9361.9	9093.9	8838.0	8417.8	7787.3	7132.6	6922.4
7.5°	10814.6	10838.9	10808.5	10674.5	10418.7	10129.3	9660.3	8914.2	7942.7	7711.2
10°	11728.2	11807.4	11798.3	11746.5	11575.9	11341.4	10842.0	9992.3	8850.2	8551.8
12.5°	12334.3	12422.6	12474.4	12590.1	12581.0	12431.7	11993.2	11094.8	9754.7	9404.5
15°	12510.9	12605.3	12803.3	13071.3	13308.8	13385.0	13077.4	12175.9	10750.6	10302.9
17.5°	12410.4	12556.6	12794.1	13217.5	13738.3	14082.4	14048.9	13220.5	11655.1	11143.5
20°	12632.7	12772.8	12958.6	13314.9	13921.0	14545.3	14795.0	14219.4	12553.6	12017.5
22.5°	13863.1	13838.8	13857.0	13914.9	14277.3	14895.5	15410.2	15127.0	13442.8	12894.6
25°	15812.2	15702.6	15516.8	15203.1	15111.8	15410.2	15946.2	15931.0	14380.9	13793.1
27.5°	18047.6	18029.4	17593.9	16838.6	16412.2	16296.5	16552.3	16713.7	15309.7	14682.4
30°	20188.6	20237.3	19649.6	18809.0	18026.3	17572.5	17341.1	17456.8	16253.8	15641.7
32.5°	22052.5	22104.2	21464.7	20481.0	19512.5	18964.3	18477.1	18190.8	17283.2	16616.2
35°	23627.0	23678.8	22944.8	21857.6	20825.1	20328.7	19777.5	18994.8	18318.7	17697.4
37.5°	25034.0	25018.8	24035.1	22938.7	21924.6	21531.7	21242.4	19984.6	19384.6	18784.6
40°	25865.4	25929.4	25088.8	23879.8	22896.1	22609.8	22591.5	21211.9	20615.0	20033.3
42.5°	26109.1	26221.8	25612.7	24619.8	23727.5	23416.9	23895.0	22539.7	22046.4	21479.9
45°	25670.5	25780.2	25503.0	24814.7	24294.0	24093.0	25015.7	23916.3	23575.2	23014.8
47.5°	24391.4	24528.5	24595.5	24449.3	24443.2	24647.2	26020.8	25366.0	25390.3	24817.8
50°	21915.4	22146.9	22762.1	23279.8	24080.8	25085.8	26998.4	26937.5	27436.9	26943.5
52.5°	17414.2	17743.1	19862.8	21278.9	23078.8	25003.6	28073.4	29459.1	31027.6	30305.8
55°	13994.1	13994.1	15717.8	18367.4	21123.6	24461.5	28542.4	31097.6	33473.1	33302.5
57.5°	11408.4	11545.5	12644.9	14986.9	18294.3	23170.2	28831.8	32127.0	35443.5	35318.7
60°	7041.2	7336.6	9413.6	11725.2	15075.2	20870.8	28649.0	33168.5	37834.3	37934.8
62.5°	3965.2	4074.9	5000.7	8436.0	11722.1	17779.6	27251.1	33750.2	40891.9	41318.3
65°	2737.9	2792.7	3149.0	5250.4	8125.4	14155.5	24519.3	33387.8	43955.7	44817.6
67.5°	1988.7	2016.1	2238.4	3206.9	4821.0	10263.3	20237.3	31560.5	45579.0	47019.5
70°	1528.8	1547.1	1708.5	2107.5	2847.5	6334.6	14697.6	27927.2	44403.4	46124.1
72.5°	1242.6	1260.8	1385.7	1559.3	1888.2	3746.0	8908.1	22679.8	39213.9	41071.6
75°	1047.7	1072.0	1184.7	1297.4	1480.1	2405.9	4178.4	15794.0	29489.6	30707.8
77.5°	581.7	536.0	962.4	1075.1	1248.7	1522.8	1955.2	9294.9	16515.7	16853.8
80°	362.4	374.6	764.4	864.9	959.3	767.5	895.4	3578.5	5725.5	5439.3
82.5°	21.3	48.7	587.8	624.3	657.8	328.9	338.1	1215.2	1379.6	1266.9
85°	0.0	0.0	268.0	216.2	228.4	94.4	97.5	283.2	185.8	201.0
87.5°	0.0	0.0	0.0	6.1	0.0	9.1	18.3	24.4	9.1	12.2
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°
5655.5	0°	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5	5655.5
5944.8	2.5°	5731.6	5518.4	5086.0	4662.7	4318.5	3998.7	3770.3	3554.1	3444.5	3438.4
6328.5	5°	5905.2	5457.5	4592.6	3828.2	3213.0	2719.6	2399.9	2171.4	2055.7	2016.1
6800.6	7.5°	6148.9	5475.8	4160.2	3097.3	2372.4	1949.1	1766.4	1693.3	1668.9	1641.5
7333.6	10°	6456.5	5518.4	3773.4	2494.3	1869.9	1656.8	1583.7	1553.2	1534.9	1516.7
7933.5	12.5°	6800.6	5558.0	3389.6	2070.9	1644.6	1534.9	1483.2	1446.6	1422.2	1400.9
8548.7	15°	7135.6	5582.4	2990.7	1775.5	1528.8	1440.5	1385.7	1346.1	1312.6	1288.2
9151.7	17.5°	7467.6	5615.9	2616.1	1598.9	1434.4	1346.1	1291.3	1242.6	1215.2	1187.7
9785.2	20°	7836.1	5609.8	2262.8	1474.0	1340.0	1251.7	1193.8	1148.2	1120.7	1090.3
10455.2	22.5°	8177.2	5579.4	1952.2	1367.4	1242.6	1157.3	1093.3	1047.7	1020.2	995.9
11140.4	25°	8570.0	5555.0	1693.3	1270.0	1151.2	1065.9	995.9	953.2	922.8	901.5
11828.7	27.5°	8947.7	5518.4	1504.5	1181.7	1062.9	980.7	913.7	864.9	837.5	822.3
12538.3	30°	9319.2	5509.3	1434.4	1096.4	983.7	901.5	834.5	788.8	767.5	761.4
13318.0	32.5°	9766.9	5533.7	1464.9	1065.9	910.6	828.4	764.4	730.9	709.6	709.6
14185.9	35°	10245.1	5527.6	1510.6	1093.3	861.9	755.3	706.6	685.2	663.9	663.9
15148.3	37.5°	10845.0	5536.7	1547.1	1139.0	843.6	694.4	667.0	639.6	627.4	627.4
16202.1	40°	11740.4	5838.2	1528.8	1178.6	837.5	651.7	596.9	587.8	578.6	578.6
17392.9	42.5°	12836.8	6493.0	1553.2	1181.7	834.5	621.3	548.2	566.5	545.1	542.1
18735.9	45°	14036.7	7208.7	1708.5	1117.7	831.4	606.1	523.8	545.1	511.6	511.6
20292.2	47.5°	15227.5	7918.3	1866.9	1026.3	822.3	603.0	502.5	490.3	481.2	484.2
22320.5	50°	16869.0	8496.9	1927.8	901.5	801.0	596.9	462.9	466.0	459.9	466.0
25180.2	52.5°	18656.7	8618.8	1854.7	761.4	740.1	578.6	435.5	447.7	444.6	450.7
27193.3	55°	19771.4	8487.8	1531.9	633.5	645.6	505.6	408.1	432.5	432.5	432.5
29160.7	57.5°	20922.6	7930.5	1087.2	514.7	536.0	414.2	383.7	417.2	414.2	411.1
31530.1	60°	21751.0	7029.0	715.7	423.3	426.4	341.1	356.3	392.9	389.8	374.6
33972.6	62.5°	22369.2	6033.1	459.9	359.4	325.9	307.6	325.9	356.3	344.1	310.6
36043.5	65°	22299.2	4653.5	353.3	307.6	268.0	268.0	283.2	310.6	274.1	219.3
36439.4	67.5°	20998.7	3149.0	292.4	258.9	225.4	222.3	234.5	258.9	234.5	185.8
34411.1	70°	18675.0	2058.8	234.5	201.0	179.7	164.5	188.8	222.3	198.0	149.2
29294.7	72.5°	15157.5	1254.7	176.6	146.2	131.0	106.6	149.2	182.7	158.4	109.6
20371.4	75°	9806.5	639.6	121.8	94.4	70.0	64.0	109.6	137.0	109.6	67.0
9039.0	77.5°	3752.1	268.0	67.0	42.6	36.5	30.5	60.9	82.2	45.7	15.2
1751.2	80°	721.8	112.7	33.5	21.3	18.3	12.2	9.1	6.1	0.0	0.0
310.6	82.5°	124.9	36.5	12.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
60.9	85°	42.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.3	87.5°	15.2	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>
5655.5
3432.3
2010.0
1635.4
1510.6
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1087.2
992.8
898.4
822.3
758.3
709.6
663.9
627.4
578.6
539.1
511.6
484.2
466.0
450.7
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411.1
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