

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: INVUE

Report Number: P675742

Luminaire Tested: **CCW-SA-1A-830-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675742
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

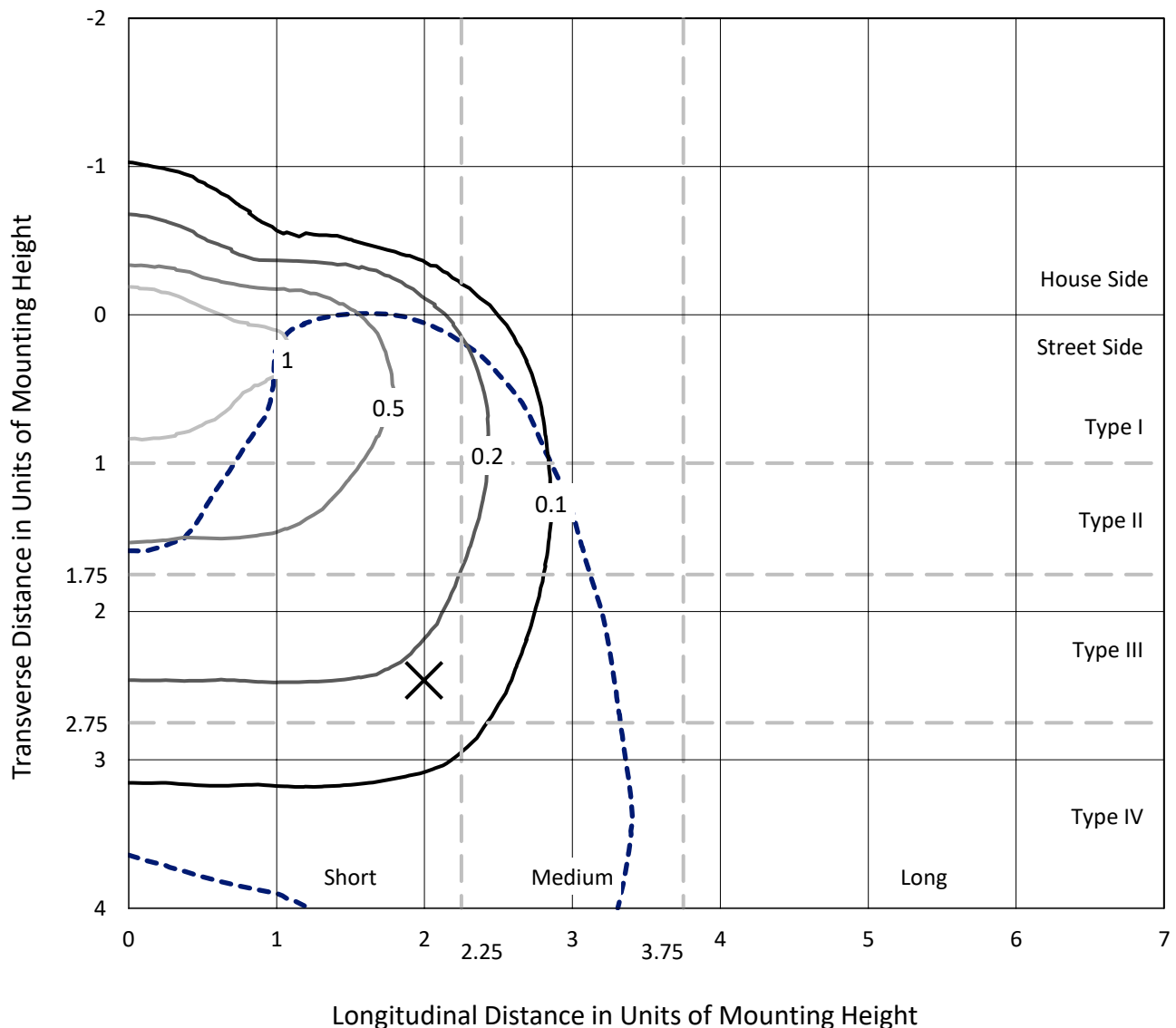
Lumens per Lamp: N/A
Luminaire Lumens: 2130.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

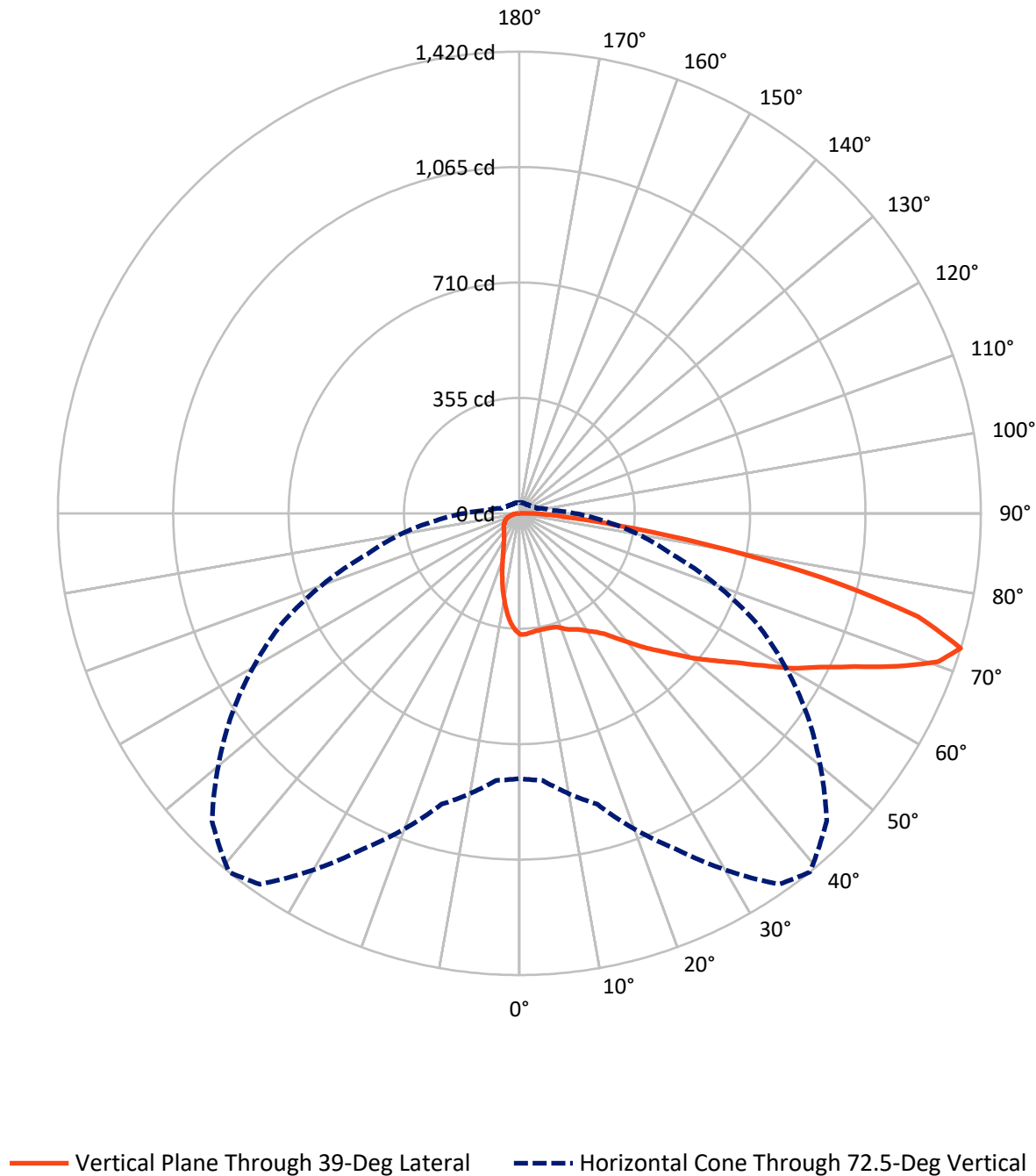
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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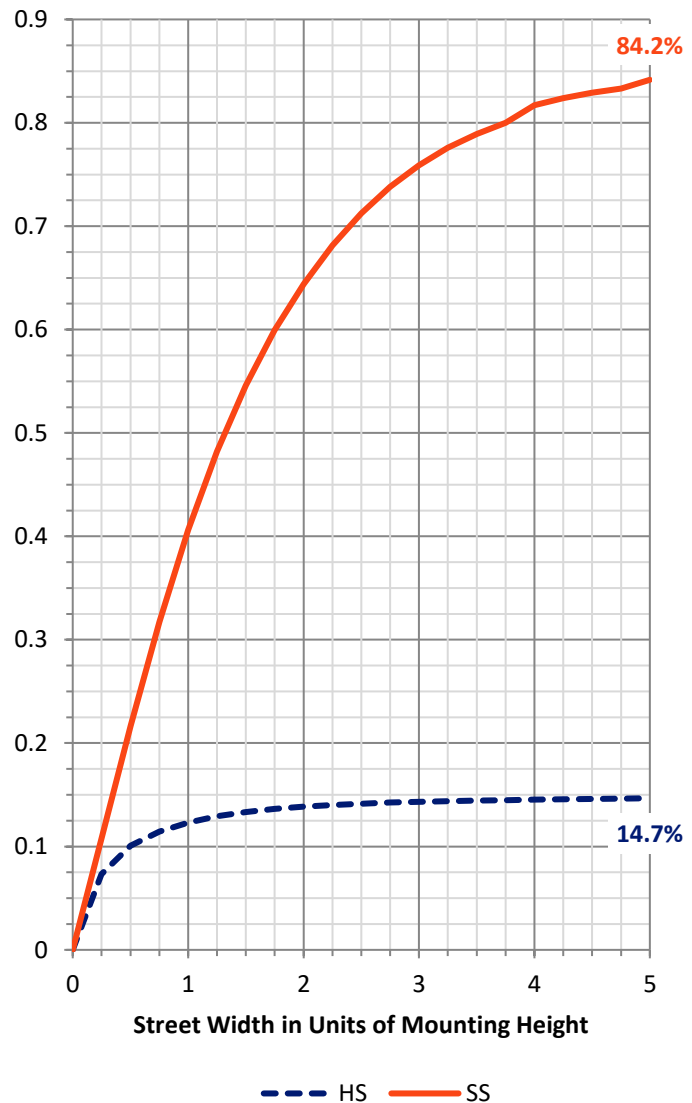
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	316.6	0.0	316.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1813.6	0.0	1813.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	2130.2	0.0	2130.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.5
10°-20°	84.1	3.9
20°-30°	128.1	6.0
30°-40°	187.4	8.8
40°-50°	286.9	13.5
50°-60°	420.8	19.8
60°-70°	536.7	25.2
70°-80°	387.8	18.2
80°-90°	65.4	3.1
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°	2130.2	100.0
0°-180°	2130.2	100.0

Coefficient of Utilization



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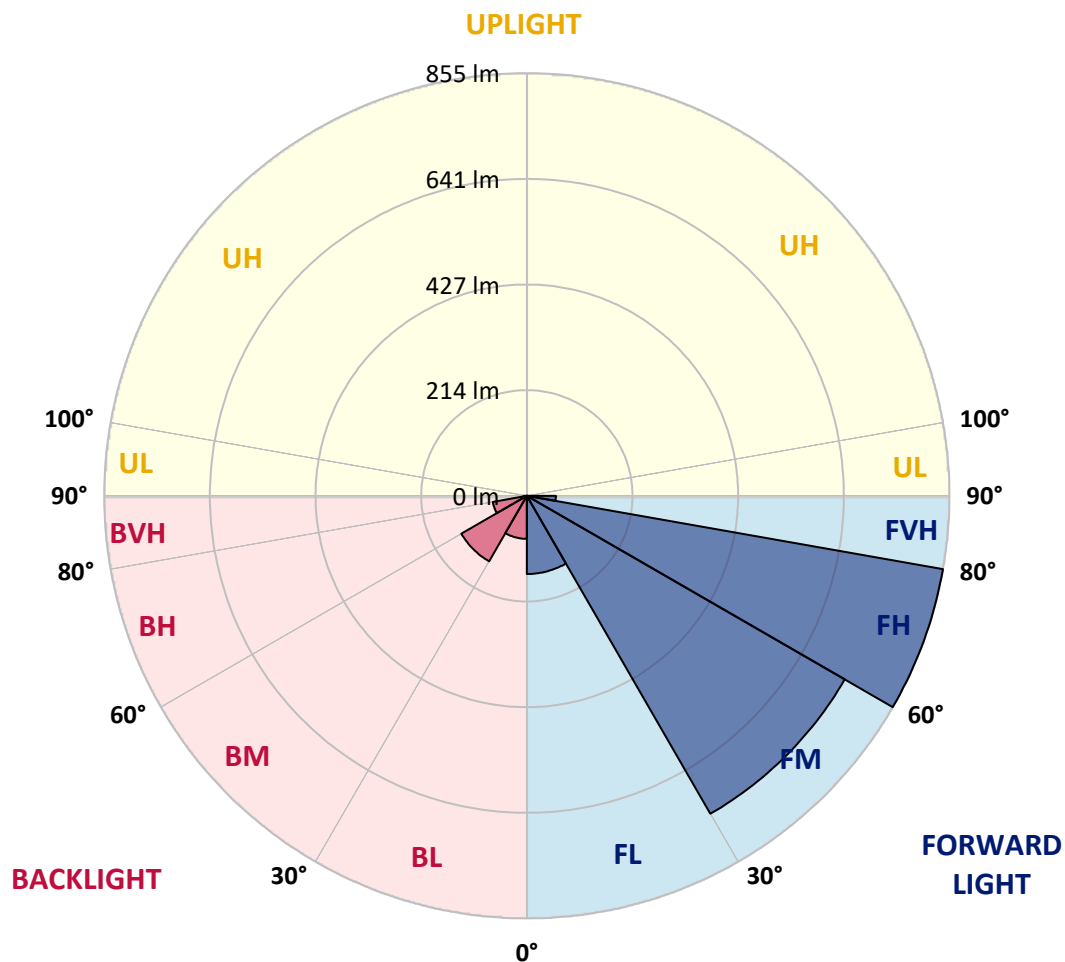
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.1	7.4			
FM	(30°-60°)	742.2	34.8			
FH	(60°-80°)	854.5	40.1			G1/1800
FVH	(80°-90°)	58.8	2.8			G1/100
BL	(0°-30°)	87.1	4.1	B0/110		
BM	(30°-60°)	152.9	7.2	B0/220		
BH	(60°-80°)	69.9	3.3	B0/110		G0/110
BVH	(80°-90°)	6.6	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9
2.5°	378.5	379.3	377.7	376.1	375.3	372.1	375.3	373.7	372.1	372.1	372.1
5°	373.7	374.5	374.5	372.9	373.7	368.1	367.3	368.1	365.7	364.1	363.3
7.5°	366.5	368.1	371.3	370.5	367.3	364.9	365.7	364.9	360.9	358.5	352.1
10°	360.9	362.5	364.1	365.7	364.9	364.1	363.3	360.1	359.3	353.7	347.3
12.5°	355.3	355.3	356.1	362.5	363.3	363.3	358.5	358.5	356.1	355.3	345.7
15°	349.7	352.1	358.5	360.1	363.3	364.9	362.5	362.5	358.5	352.9	345.7
17.5°	351.3	355.3	361.7	365.7	367.3	367.3	370.5	368.1	362.5	359.3	352.1
20°	359.3	360.1	368.1	375.3	376.9	376.9	373.7	371.3	367.3	361.7	352.1
22.5°	364.1	369.7	379.3	383.3	388.1	388.1	384.1	378.5	372.9	367.3	356.9
25°	384.9	385.7	389.7	396.1	398.5	395.3	391.3	384.9	377.7	372.1	362.5
27.5°	399.3	403.3	408.1	411.3	407.3	404.9	401.7	394.5	388.9	384.1	370.5
30°	425.7	420.9	424.1	425.7	418.5	420.1	411.3	404.9	398.5	398.5	383.3
32.5°	441.7	445.7	442.5	441.7	436.1	435.3	429.7	422.5	418.5	423.3	402.5
35°	469.7	467.3	467.3	466.5	460.1	456.1	456.1	443.3	447.3	457.7	432.1
37.5°	484.1	483.3	488.1	492.1	485.7	488.1	485.7	480.1	481.7	500.1	468.9
40°	498.5	504.1	513.7	515.3	519.3	522.5	520.9	520.1	526.5	556.1	518.5
42.5°	512.1	516.9	531.3	544.1	553.7	564.1	564.9	564.9	585.7	628.1	578.5
45°	529.7	533.7	553.7	579.3	595.3	602.5	608.9	616.1	644.1	694.6	642.5
47.5°	553.7	556.9	580.9	612.9	644.1	648.1	660.9	669.0	711.4	762.6	708.2
50°	588.1	585.7	604.9	651.3	681.8	701.0	719.4	733.8	775.4	831.4	759.4
52.5°	616.1	616.1	630.5	692.2	733.8	752.2	771.4	791.4	839.4	900.2	801.0
55°	664.2	659.3	668.2	732.2	792.2	809.8	846.6	863.4	909.8	951.4	836.2
57.5°	697.0	699.4	709.8	785.0	861.0	882.6	919.4	931.4	972.2	1005.0	861.8
60°	740.2	732.2	754.6	843.4	937.0	967.4	997.8	1005.0	1035.4	1039.4	873.8
62.5°	781.8	780.2	799.4	901.8	1018.6	1040.2	1071.4	1079.4	1092.2	1066.6	857.0
65°	807.4	817.8	853.8	965.8	1111.5	1135.5	1166.7	1150.7	1136.3	1042.6	774.6
67.5°	842.6	847.4	902.6	1035.4	1218.7	1254.7	1281.9	1218.7	1111.5	944.2	652.1
70°	850.6	863.4	935.4	1108.3	1329.1	1365.9	1367.5	1195.5	1021.0	768.2	472.9
72.5°	815.4	824.2	925.8	1138.7	1392.3	1419.5	1337.1	1081.0	809.0	484.1	257.7
75°	685.8	710.6	805.8	1045.0	1276.3	1265.9	1133.1	825.0	485.7	214.4	108.8
77.5°	477.7	478.5	577.7	760.2	955.4	953.0	808.2	478.5	208.0	86.4	64.0
80°	212.0	227.3	287.3	409.7	580.1	580.1	471.3	237.7	104.0	56.0	44.0
82.5°	124.8	129.6	153.6	191.2	282.5	297.7	225.7	158.4	71.2	35.2	27.2
85°	92.0	100.0	114.4	115.2	133.6	136.0	124.8	137.6	48.8	19.2	22.4
87.5°	68.8	73.6	91.2	76.0	71.2	67.2	76.8	140.8	18.4	9.6	7.2
90°	0.0	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°
0°	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9	372.9
2.5°	368.9	368.9	367.3	364.1	364.1	357.7	359.3	360.9	356.9	356.9	357.7
5°	363.3	360.1	356.1	351.3	348.1	339.3	337.7	332.1	331.3	329.7	327.3
7.5°	352.1	347.3	340.1	332.9	322.5	314.5	304.9	296.9	293.7	291.3	290.5
10°	341.7	340.9	328.9	314.5	298.5	283.3	268.9	258.5	252.1	248.1	247.3
12.5°	341.7	335.3	318.5	298.5	275.3	252.9	234.5	220.0	211.2	204.8	202.4
15°	340.1	333.7	311.3	280.9	254.5	224.1	198.4	183.2	170.4	164.0	164.8
17.5°	341.7	332.1	300.9	268.1	231.3	198.4	168.0	149.6	136.8	132.0	131.2
20°	342.5	330.5	292.9	250.5	207.2	170.4	141.6	124.0	114.4	111.2	111.2
22.5°	340.9	325.7	280.9	229.7	186.4	147.2	123.2	108.0	101.6	97.6	99.2
25°	348.1	324.9	269.7	212.0	162.4	128.0	109.6	98.4	94.4	92.0	92.8
27.5°	349.7	324.9	260.9	192.0	141.6	113.6	99.2	92.0	88.8	87.2	86.4
30°	356.1	326.5	250.5	172.0	124.8	102.4	91.2	87.2	84.8	84.0	84.0
32.5°	373.7	331.3	239.3	155.2	110.4	92.8	85.6	82.4	80.8	80.0	80.8
35°	394.5	344.1	227.3	137.6	100.0	86.4	80.8	78.4	77.6	77.6	77.6
37.5°	426.5	363.3	216.8	123.2	91.2	80.0	76.0	75.2	74.4	75.2	75.2
40°	463.3	384.1	207.2	112.0	84.8	76.0	72.0	72.0	71.2	72.0	72.8
42.5°	505.7	409.7	197.6	100.8	79.2	72.8	69.6	68.8	68.0	69.6	70.4
45°	564.1	444.9	191.2	94.4	75.2	69.6	66.4	66.4	65.6	65.6	67.2
47.5°	612.9	478.5	191.2	88.0	72.8	67.2	64.0	64.0	62.4	63.2	63.2
50°	653.7	507.3	195.2	86.4	69.6	64.8	62.4	60.8	60.0	60.0	60.0
52.5°	681.0	524.9	198.4	84.8	68.0	61.6	60.0	59.2	57.6	56.8	57.6
55°	708.2	536.9	199.2	84.8	65.6	58.4	56.8	56.8	55.2	54.4	54.4
57.5°	718.6	532.1	188.0	83.2	64.0	56.0	54.4	53.6	52.8	52.0	52.0
60°	713.8	514.5	163.2	79.2	62.4	54.4	51.2	51.2	51.2	49.6	50.4
62.5°	681.0	454.5	131.2	72.8	60.0	51.2	48.0	49.6	49.6	48.8	48.8
65°	594.5	375.3	106.4	67.2	56.8	48.8	45.6	48.0	48.8	48.0	47.2
67.5°	475.3	288.9	88.0	60.8	52.8	44.8	42.4	44.8	45.6	44.8	44.8
70°	326.5	186.4	71.2	54.4	47.2	40.8	38.4	40.0	40.0	40.8	40.8
72.5°	168.8	100.8	58.4	46.4	40.8	36.8	34.4	34.4	33.6	33.6	33.6
75°	84.0	68.8	48.8	39.2	34.4	31.2	29.6	28.0	28.0	28.0	28.0
77.5°	58.4	52.8	40.0	31.2	28.0	25.6	25.6	23.2	23.2	23.2	23.2
80°	44.0	41.6	30.4	24.0	21.6	20.0	20.0	19.2	19.2	18.4	18.4
82.5°	31.2	33.6	23.2	17.6	16.0	15.2	15.2	14.4	14.4	12.8	12.8
85°	24.8	28.0	17.6	12.8	12.0	10.4	10.4	9.6	9.6	8.8	8.0
87.5°	7.2	15.2	7.2	4.8	4.8	4.8	4.8	4.0	4.0	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)