

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: P675454

Luminaire Tested: **CCW-SA-1A-830-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675454
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-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

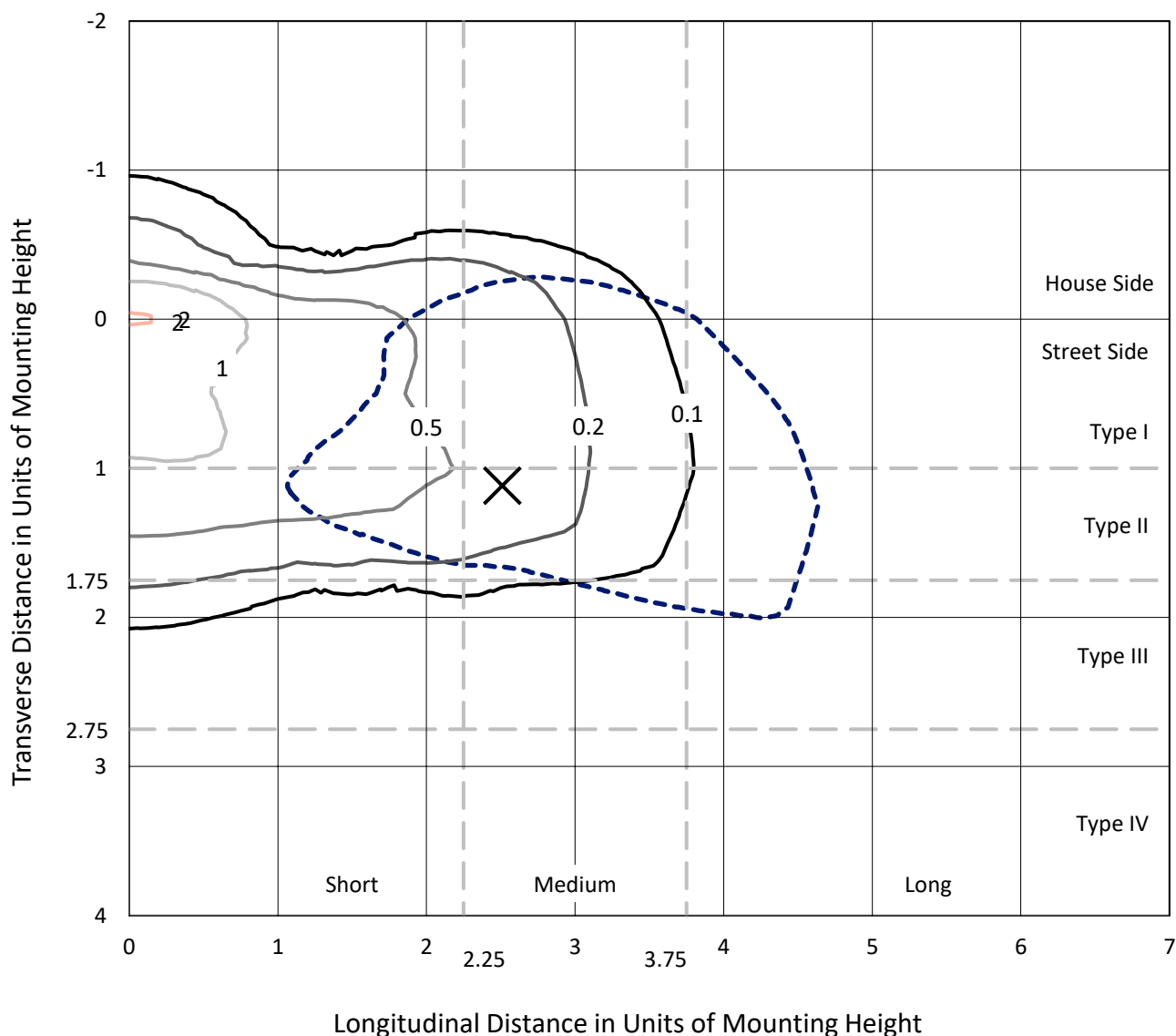
Lumens per Lamp: N/A
Luminaire Lumens: 2151.4 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

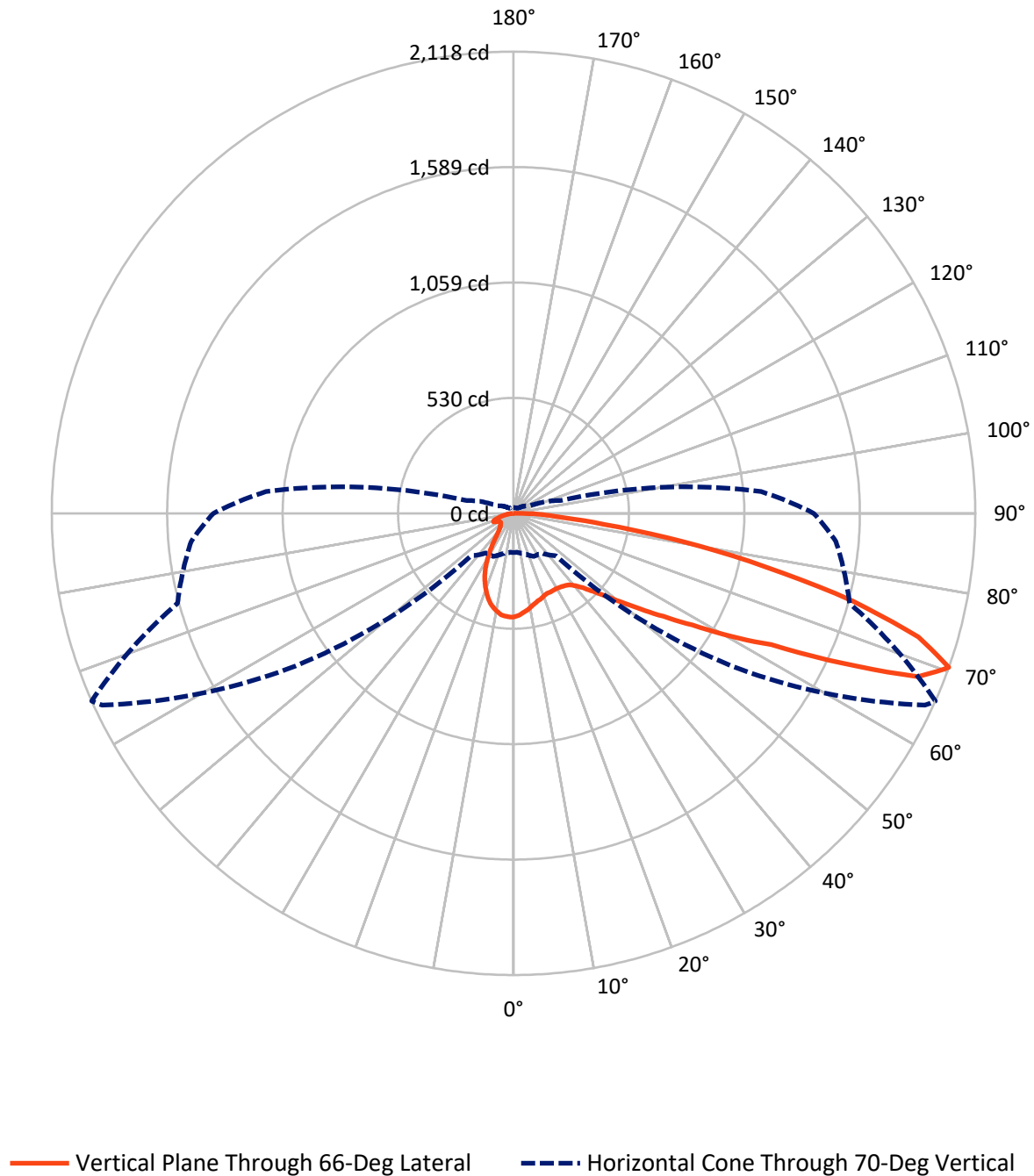
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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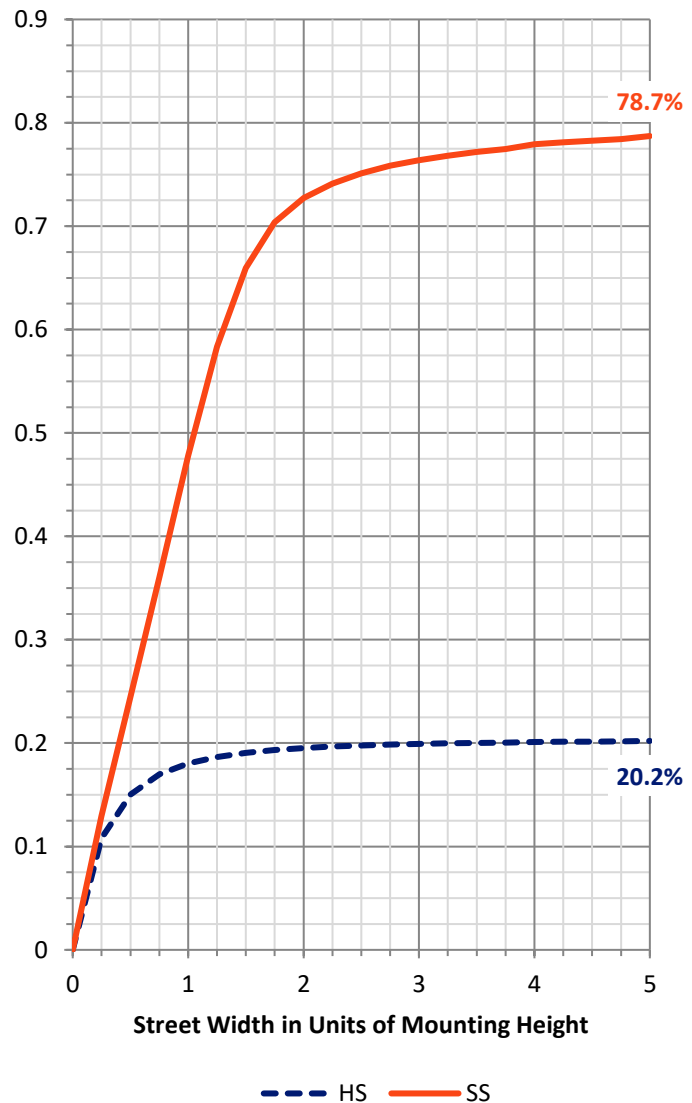
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.3	0.0	440.3
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	1711.1	0.0	1711.1
	% Fixture	79.5	0.0	79.5
Total	Lumens	2151.4	0.0	2151.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	2.0
10°-20°	103.5	4.8
20°-30°	142.1	6.6
30°-40°	190.5	8.9
40°-50°	276.4	12.8
50°-60°	420.2	19.5
60°-70°	518.9	24.1
70°-80°	385.9	17.9
80°-90°	72.0	3.3
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°	2151.4	100.0
0°-180°	2151.4	100.0

Coefficient of Utilization



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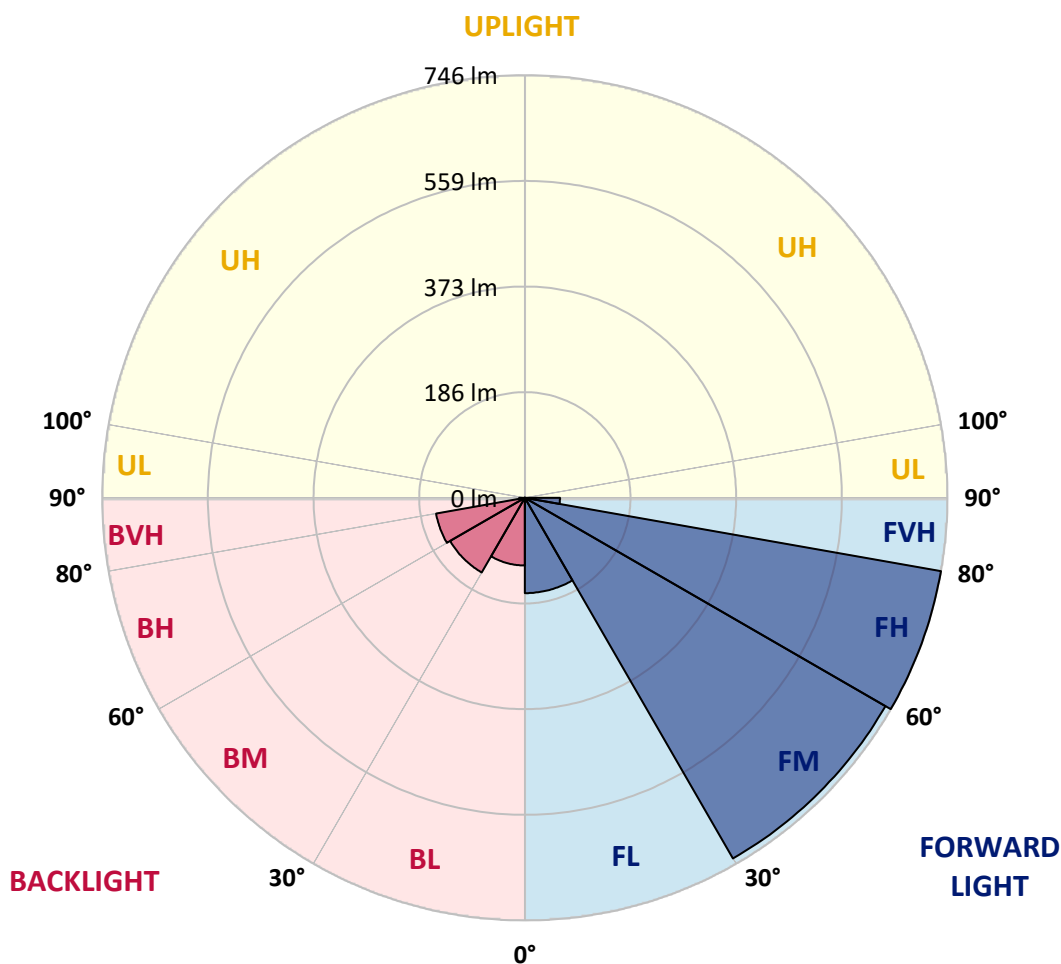
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.2	7.8			
FM	(30°-60°)	735.0	34.2			
FH	(60°-80°)	745.8	34.7			G1/1800
FVH	(80°-90°)	62.0	2.9			G1/100
BL	(0°-30°)	119.3	5.5	B1/500		
BM	(30°-60°)	152.1	7.1	B0/220		
BH	(60°-80°)	159.0	7.4	B1/500		G1/500
BVH	(80°-90°)	9.9	0.5			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	452.1	454.5	455.3	456.9	460.9	464.1	468.9	471.3	468.9	472.1	472.1
5°	420.9	417.7	425.7	428.9	433.7	440.1	451.3	460.1	457.7	467.3	475.3
7.5°	394.5	394.5	396.9	404.1	409.7	419.3	431.3	444.9	448.9	461.7	473.7
10°	370.5	373.7	373.7	384.9	388.1	399.3	419.3	436.1	436.9	458.5	475.3
12.5°	357.7	356.1	364.1	367.3	376.9	388.1	404.1	424.9	425.7	448.9	472.1
15°	347.3	348.9	352.9	360.9	369.7	378.5	393.7	412.9	416.9	444.1	470.5
17.5°	348.1	348.9	348.9	354.5	361.7	372.1	386.5	408.9	411.3	437.7	468.1
20°	352.9	349.7	352.1	354.5	359.3	368.9	380.9	400.1	402.5	436.9	473.7
22.5°	363.3	360.9	360.1	359.3	358.5	364.1	379.3	395.3	397.7	432.9	476.1
25°	380.1	379.3	373.7	368.1	364.1	364.1	376.1	399.3	398.5	432.9	477.7
27.5°	400.1	400.1	399.3	388.9	376.9	370.5	378.5	397.7	396.9	432.9	481.7
30°	427.3	427.3	424.9	415.3	393.7	375.3	380.1	396.1	398.5	429.7	478.5
32.5°	456.9	456.1	458.5	449.7	427.3	397.7	389.7	399.3	401.7	432.9	479.3
35°	478.5	483.3	491.3	483.3	460.9	420.9	403.3	405.7	407.3	433.7	482.5
37.5°	503.3	508.9	520.1	526.5	502.5	456.1	424.9	416.1	416.1	444.1	483.3
40°	539.3	533.7	552.9	564.1	554.5	499.3	458.5	435.3	436.1	457.7	493.7
42.5°	565.7	571.4	591.4	611.4	599.4	552.1	495.3	466.5	466.5	477.7	509.7
45°	595.4	601.8	629.8	653.8	662.6	615.4	545.7	511.3	509.7	516.9	538.5
47.5°	628.2	637.0	669.0	697.0	720.2	681.0	610.6	565.7	564.9	570.6	586.6
50°	665.8	669.0	695.4	746.6	793.0	768.2	689.8	642.6	638.6	641.0	662.6
52.5°	677.0	674.6	705.0	760.2	845.0	874.6	797.8	729.8	728.2	722.6	750.6
55°	636.2	644.2	673.8	744.2	887.4	1000.3	916.2	849.0	834.6	819.4	853.0
57.5°	554.5	555.3	589.0	672.2	854.6	1104.3	1117.1	965.9	966.7	925.8	964.3
60°	431.3	428.9	455.3	530.5	761.0	1136.3	1336.4	1152.3	1144.3	1032.3	1067.5
62.5°	311.3	306.5	312.1	356.1	568.9	1087.5	1551.6	1361.2	1327.5	1141.1	1168.3
65°	256.1	258.5	260.9	263.3	319.3	897.0	1618.0	1702.0	1657.2	1268.3	1279.5
67.5°	212.1	213.7	224.1	238.5	236.9	529.7	1541.2	2017.3	2000.5	1426.0	1375.6
70°	180.0	179.2	191.3	217.7	221.7	275.3	1220.3	2082.1	2118.2	1595.6	1484.4
72.5°	144.0	145.6	156.0	191.3	217.7	232.1	702.6	1942.9	1942.1	1726.1	1426.0
75°	103.2	103.2	117.6	158.4	210.5	229.7	388.9	1577.2	1606.8	1622.0	1237.1
77.5°	68.0	71.2	82.4	118.4	197.7	224.9	246.5	1146.7	1183.5	1213.1	946.6
80°	46.4	48.0	55.2	82.4	167.2	226.5	201.7	771.4	785.8	669.8	384.1
82.5°	28.0	28.8	36.8	57.6	120.0	215.3	189.6	425.7	416.9	202.5	110.4
85°	15.2	16.0	23.2	38.4	79.2	188.0	186.4	208.9	194.5	74.4	46.4
87.5°	5.6	5.6	10.4	19.2	45.6	128.8	162.4	124.0	116.0	37.6	21.6
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°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	476.1	476.1	476.1	476.1	475.3	472.1	474.5	473.7	468.9	469.7	466.5
5°	474.5	478.5	476.1	472.9	468.9	459.3	456.1	453.7	447.3	444.9	447.3
7.5°	478.5	475.3	473.7	468.1	452.1	443.3	432.1	418.5	408.9	406.5	408.9
10°	477.7	477.7	470.5	454.5	439.3	413.7	399.3	375.3	361.7	357.7	358.5
12.5°	474.5	476.9	465.7	440.1	411.3	380.1	353.7	328.1	304.1	294.5	292.9
15°	477.7	475.3	455.3	422.5	382.5	339.3	300.9	263.3	240.9	226.5	223.3
17.5°	472.9	470.5	441.7	398.5	344.9	289.7	241.7	200.9	178.4	172.8	172.8
20°	478.5	463.3	425.7	369.7	305.7	235.3	180.8	150.4	144.8	144.8	146.4
22.5°	477.7	461.7	412.1	341.7	258.5	177.6	134.4	125.6	126.4	132.8	132.0
25°	472.9	458.5	392.9	310.5	208.9	133.6	111.2	108.8	114.4	121.6	120.8
27.5°	472.1	449.7	375.3	273.7	159.2	105.6	96.8	96.8	102.4	108.8	108.0
30°	467.3	442.5	353.7	232.1	120.0	92.0	88.8	88.8	91.2	94.4	94.4
32.5°	466.5	432.9	329.7	188.8	96.0	83.2	81.6	82.4	82.4	84.0	83.2
35°	460.1	420.1	304.9	146.4	83.2	78.4	76.8	76.0	76.0	75.2	75.2
37.5°	457.7	412.1	279.3	113.6	77.6	74.4	72.8	70.4	69.6	69.6	68.8
40°	460.1	404.1	254.5	92.0	72.8	71.2	68.8	65.6	64.8	64.8	64.8
42.5°	468.9	403.3	228.9	80.0	70.4	68.0	64.8	61.6	60.8	61.6	60.8
45°	488.9	409.7	204.1	74.4	67.2	64.8	60.8	58.4	57.6	58.4	58.4
47.5°	521.7	427.3	181.6	71.2	64.8	61.6	57.6	55.2	55.2	55.2	55.2
50°	576.2	460.9	160.0	68.8	63.2	59.2	55.2	52.0	51.2	51.2	52.0
52.5°	657.8	518.5	142.4	67.2	60.8	56.0	52.0	49.6	48.0	47.2	48.0
55°	756.2	602.6	136.8	65.6	57.6	53.6	49.6	46.4	44.8	44.8	44.0
57.5°	861.8	695.4	146.4	64.0	55.2	50.4	46.4	43.2	41.6	40.8	40.8
60°	976.3	805.0	181.6	63.2	52.8	47.2	43.2	40.8	38.4	37.6	37.6
62.5°	1080.3	904.2	244.9	62.4	51.2	44.0	40.0	36.8	35.2	34.4	34.4
65°	1198.7	1014.7	306.5	65.6	50.4	41.6	36.8	33.6	32.0	31.2	31.2
67.5°	1301.9	1110.7	342.5	73.6	52.8	38.4	32.8	30.4	29.6	28.8	28.8
70°	1377.2	1140.3	229.7	80.8	56.8	36.0	29.6	28.0	26.4	26.4	26.4
72.5°	1276.3	1017.9	136.0	76.0	53.6	33.6	26.4	24.8	24.0	24.0	23.2
75°	1091.5	866.6	104.8	61.6	43.2	28.8	23.2	21.6	20.8	20.8	20.0
77.5°	805.8	621.0	77.6	48.8	33.6	23.2	20.0	19.2	18.4	17.6	17.6
80°	315.3	272.1	52.8	36.0	24.8	18.4	16.8	16.0	15.2	14.4	14.4
82.5°	97.6	82.4	30.4	24.0	17.6	14.4	13.6	12.8	12.0	11.2	11.2
85°	42.4	40.8	20.0	15.2	12.0	9.6	9.6	8.8	8.0	7.2	7.2
87.5°	20.8	20.0	11.2	7.2	6.4	4.8	4.8	4.0	3.2	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)