

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: P675720

Luminaire Tested: **CCW-SA-1A-760-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675720  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-760-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL4 distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

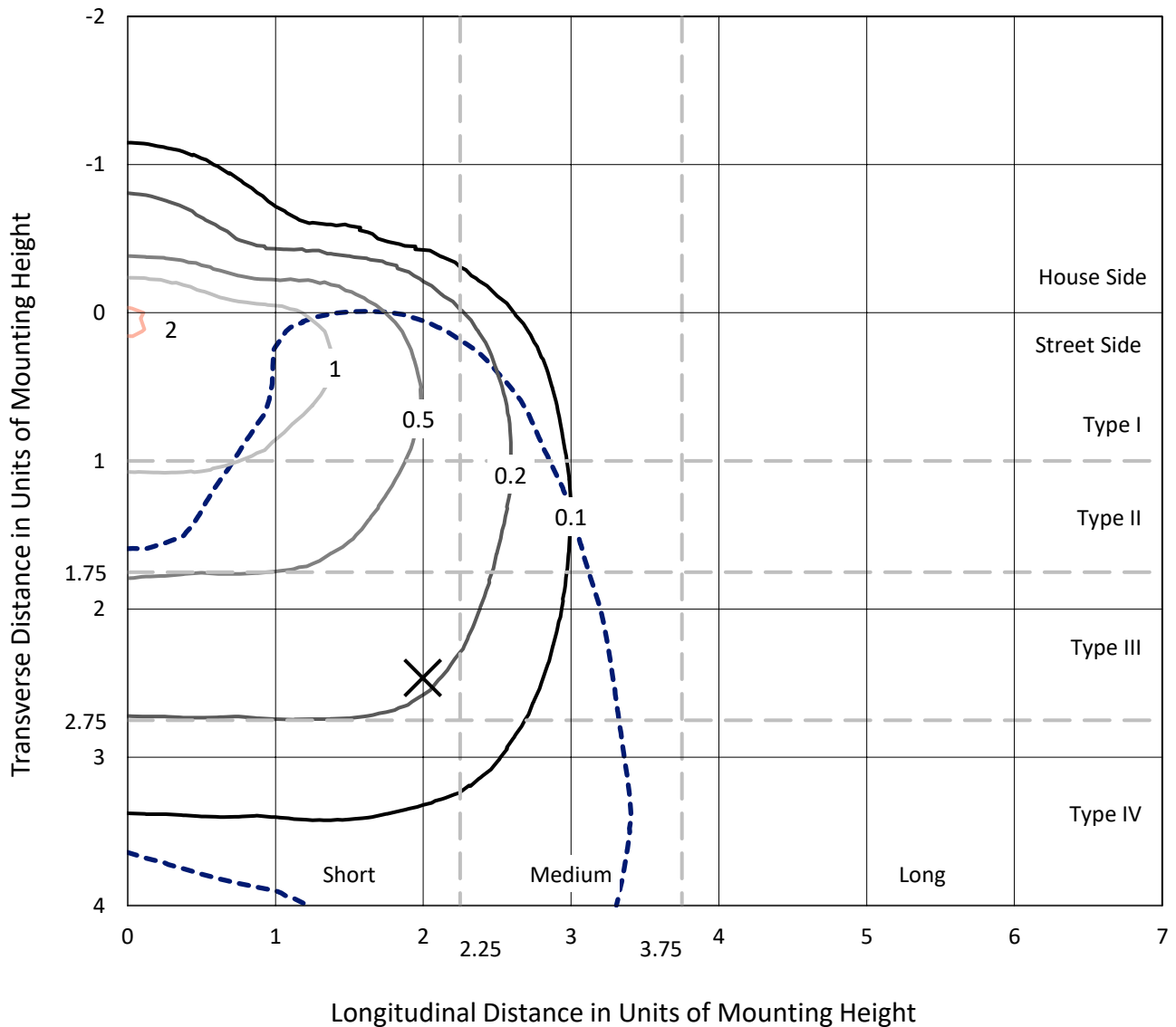
Lumens per Lamp: N/A  
Luminaire Lumens: 2742.3 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P675720  
 CATALOG NUMBER: CCW-SA-1A-760-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

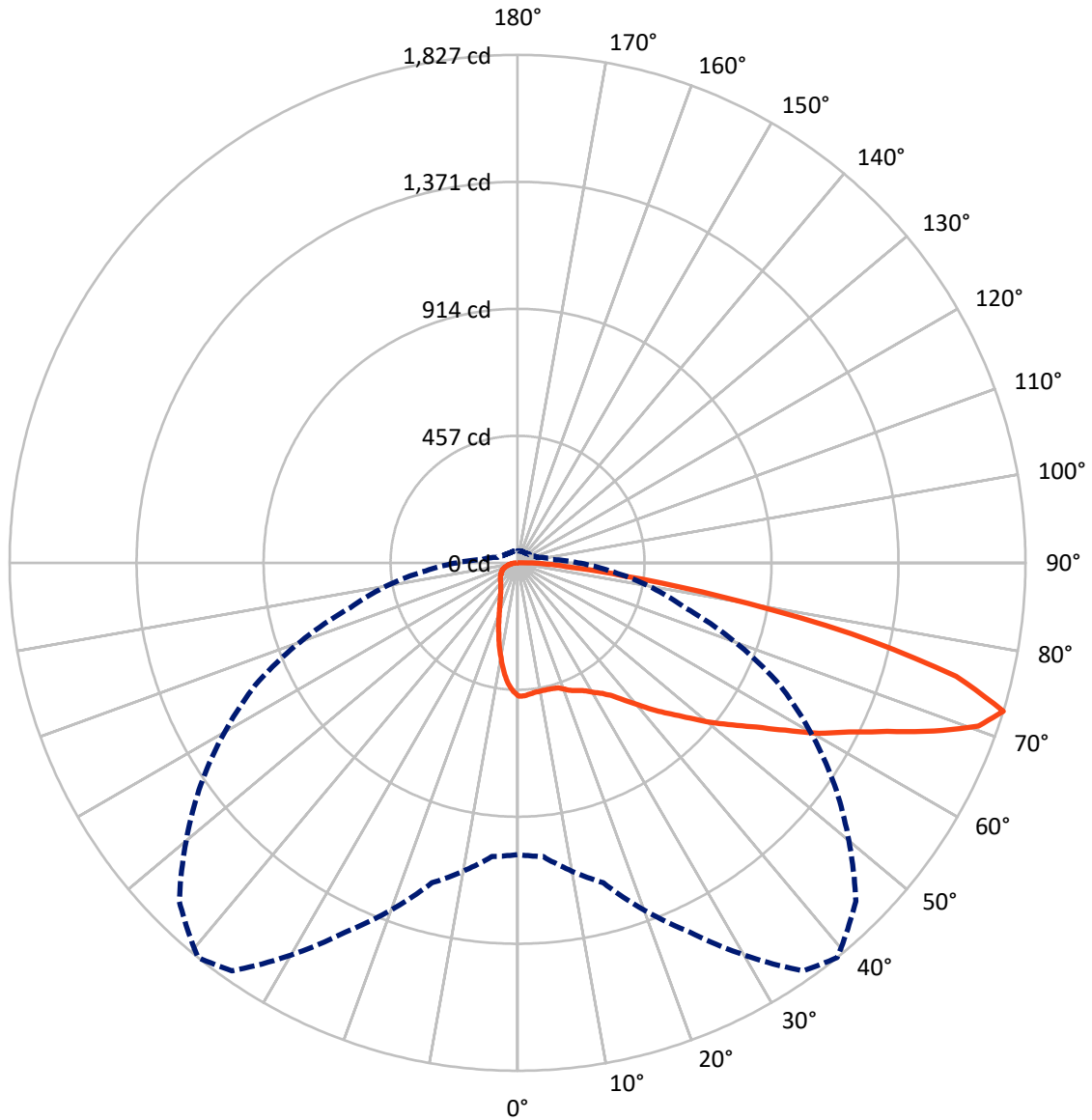
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P675720  
CATALOG NUMBER: CCW-SA-1A-760-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P675720  
 CATALOG NUMBER: CCW-SA-1A-760-U-SL4

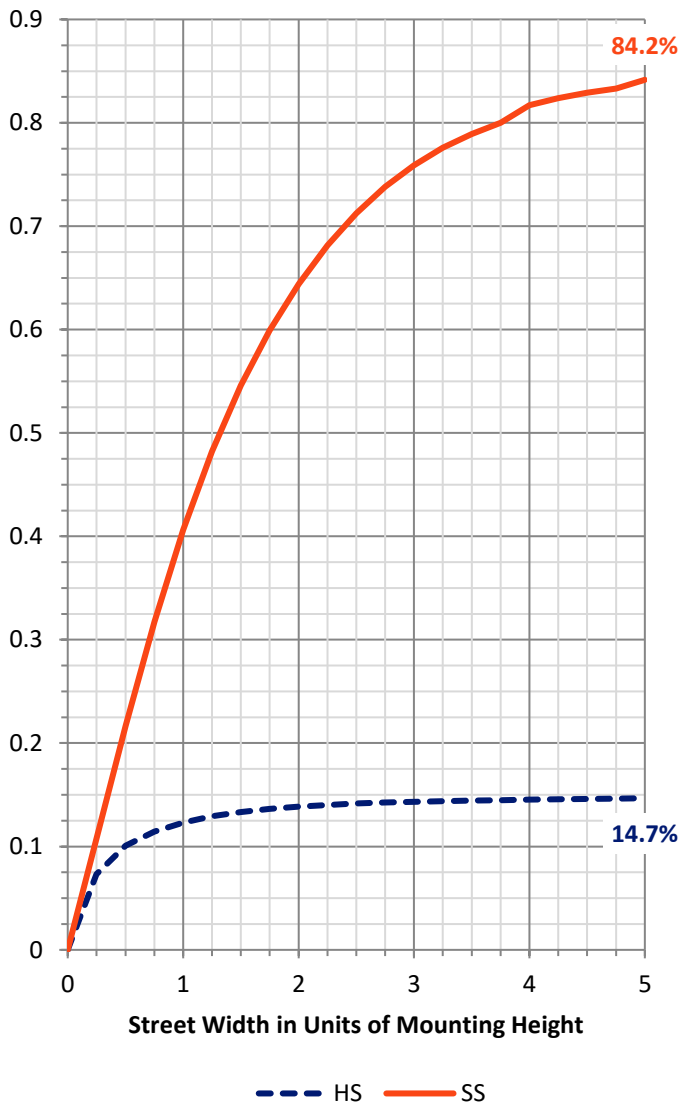
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	407.6	0.0	407.6
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	2334.7	0.0	2334.7
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	2742.3	0.0	2742.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.5
10°-20°	108.3	3.9
20°-30°	164.9	6.0
30°-40°	241.3	8.8
40°-50°	369.4	13.5
50°-60°	541.7	19.8
60°-70°	690.9	25.2
70°-80°	499.2	18.2
80°-90°	84.2	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°	2742.3	100.0
0°-180°	2742.3	100.0

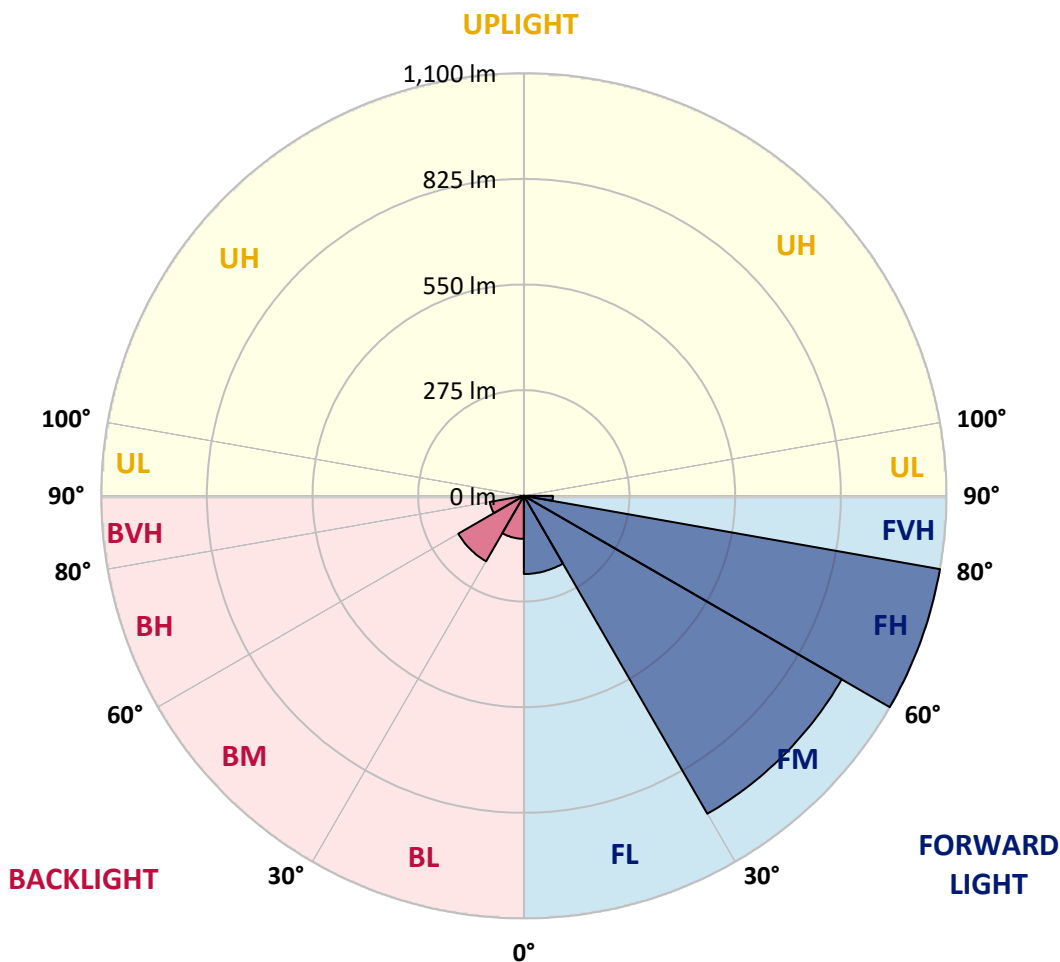


REPORT NUMBER: P675720  
 CATALOG NUMBER: CCW-SA-1A-760-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.5	7.4			
FM (30°-60°)	955.5	34.8			
FH (60°-80°)	1100.0	40.1			G1/1800
FVH (80°-90°)	75.7	2.8			G1/100
BL (0°-30°)	112.1	4.1	B1/500		
BM (30°-60°)	196.9	7.2	B0/220		
BH (60°-80°)	90.1	3.3	B0/110		G0/110
BVH (80°-90°)	8.5	0.3			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 IV Short





REPORT NUMBER: P675720  
 CATALOG NUMBER: CCW-SA-1A-760-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	487.2	488.3	486.2	484.1	483.1	479.0	483.1	481.0	479.0	479.0	479.0
5°	481.0	482.1	482.1	480.0	481.0	473.8	472.8	473.8	470.7	468.7	467.7
7.5°	471.8	473.8	478.0	476.9	472.8	469.7	470.7	469.7	464.6	461.5	453.2
10°	464.6	466.6	468.7	470.7	469.7	468.7	467.7	463.5	462.5	455.3	447.1
12.5°	457.4	457.4	458.4	466.6	467.7	467.7	461.5	461.5	458.4	457.4	445.0
15°	450.1	453.2	461.5	463.5	467.7	469.7	466.6	466.6	461.5	454.3	445.0
17.5°	452.2	457.4	465.6	470.7	472.8	472.8	476.9	473.8	466.6	462.5	453.2
20°	462.5	463.5	473.8	483.1	485.2	485.2	481.0	478.0	472.8	465.6	453.2
22.5°	468.7	475.9	488.3	493.4	499.6	499.6	494.4	487.2	480.0	472.8	459.4
25°	495.5	496.5	501.7	509.9	513.0	508.9	503.7	495.5	486.2	479.0	466.6
27.5°	514.0	519.2	525.3	529.5	524.3	521.2	517.1	507.8	500.6	494.4	476.9
30°	548.0	541.8	545.9	548.0	538.7	540.8	529.5	521.2	513.0	513.0	493.4
32.5°	568.6	573.8	569.6	568.6	561.4	560.4	553.2	543.9	538.7	544.9	518.1
35°	604.7	601.6	601.6	600.5	592.3	587.1	587.1	570.7	575.8	589.2	556.2
37.5°	623.2	622.2	628.4	633.5	625.3	628.4	625.3	618.1	620.1	643.8	603.6
40°	641.7	649.0	661.3	663.4	668.5	672.6	670.6	669.6	677.8	715.9	667.5
42.5°	659.3	665.4	684.0	700.5	712.8	726.2	727.2	727.2	754.0	808.6	744.8
45°	681.9	687.1	712.8	745.8	766.4	775.7	783.9	793.2	829.2	894.1	827.2
47.5°	712.8	716.9	747.8	789.0	829.2	834.4	850.8	861.2	915.7	981.7	911.6
50°	757.1	754.0	778.7	838.5	877.6	902.4	926.0	944.6	998.2	1070.3	977.6
52.5°	793.2	793.2	811.7	891.0	944.6	968.3	993.0	1018.8	1080.6	1158.8	1031.1
55°	855.0	848.8	860.1	942.5	1019.8	1042.4	1089.8	1111.5	1171.2	1224.8	1076.4
57.5°	897.2	900.3	913.7	1010.5	1108.4	1136.2	1183.6	1199.0	1251.6	1293.8	1109.4
60°	952.8	942.5	971.4	1085.7	1206.2	1245.4	1284.5	1293.8	1332.9	1338.1	1124.9
62.5°	1006.4	1004.3	1029.1	1160.9	1311.3	1339.1	1379.3	1389.6	1406.1	1373.1	1103.2
65°	1039.4	1052.7	1099.1	1243.3	1430.8	1461.7	1501.9	1481.3	1462.7	1342.2	997.1
67.5°	1084.7	1090.9	1161.9	1332.9	1568.8	1615.2	1650.2	1568.8	1430.8	1215.5	839.5
70°	1095.0	1111.5	1204.2	1426.7	1711.0	1758.4	1760.4	1538.9	1314.4	988.9	608.8
72.5°	1049.7	1061.0	1191.8	1465.8	1792.3	1827.4	1721.3	1391.6	1041.4	623.2	331.7
75°	882.8	914.7	1037.3	1345.3	1643.0	1629.6	1458.6	1062.0	625.3	276.1	140.1
77.5°	615.0	616.0	743.7	978.6	1229.9	1226.8	1040.4	616.0	267.8	111.2	82.4
80°	273.0	292.5	369.8	527.4	746.8	746.8	606.7	305.9	133.9	72.1	56.7
82.5°	160.7	166.9	197.8	246.2	363.6	383.2	290.5	204.0	91.7	45.3	35.0
85°	118.5	128.8	147.3	148.3	172.0	175.1	160.7	177.2	62.8	24.7	28.8
87.5°	88.6	94.8	117.4	97.9	91.7	86.5	98.9	181.3	23.7	12.4	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675720  
 CATALOG NUMBER: CCW-SA-1A-760-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	474.9	474.9	472.8	468.7	468.7	460.4	462.5	464.6	459.4	459.4	460.4
5°	467.7	463.5	458.4	452.2	448.1	436.8	434.7	427.5	426.5	424.4	421.3
7.5°	453.2	447.1	437.8	428.5	415.1	404.8	392.5	382.2	378.0	375.0	373.9
10°	439.8	438.8	423.4	404.8	384.2	364.6	346.1	332.7	324.5	319.3	318.3
12.5°	439.8	431.6	410.0	384.2	354.3	325.5	301.8	283.3	271.9	263.7	260.6
15°	437.8	429.5	400.7	361.6	327.6	288.4	255.5	235.9	219.4	211.2	212.2
17.5°	439.8	427.5	387.3	345.1	297.7	255.5	216.3	192.6	176.1	170.0	168.9
20°	440.9	425.4	377.0	322.4	266.8	219.4	182.3	159.7	147.3	143.2	143.2
22.5°	438.8	419.2	361.6	295.6	240.0	189.5	158.6	139.1	130.8	125.7	127.7
25°	448.1	418.2	347.1	273.0	209.1	164.8	141.1	126.7	121.5	118.5	119.5
27.5°	450.1	418.2	335.8	247.2	182.3	146.3	127.7	118.5	114.3	112.3	111.2
30°	458.4	420.3	322.4	221.5	160.7	131.9	117.4	112.3	109.2	108.2	108.2
32.5°	481.0	426.5	308.0	199.8	142.2	119.5	110.2	106.1	104.0	103.0	104.0
35°	507.8	442.9	292.5	177.2	128.8	111.2	104.0	100.9	99.9	99.9	99.9
37.5°	549.0	467.7	279.2	158.6	117.4	103.0	97.9	96.8	95.8	96.8	96.8
40°	596.4	494.4	266.8	144.2	109.2	97.9	92.7	92.7	91.7	92.7	93.7
42.5°	651.0	527.4	254.4	129.8	102.0	93.7	89.6	88.6	87.6	89.6	90.6
45°	726.2	572.7	246.2	121.5	96.8	89.6	85.5	85.5	84.5	84.5	86.5
47.5°	789.0	616.0	246.2	113.3	93.7	86.5	82.4	82.4	80.3	81.4	81.4
50°	841.6	653.1	251.3	111.2	89.6	83.4	80.3	78.3	77.3	77.3	77.3
52.5°	876.6	675.7	255.5	109.2	87.6	79.3	77.3	76.2	74.2	73.1	74.2
55°	911.6	691.2	256.5	109.2	84.5	75.2	73.1	73.1	71.1	70.0	70.0
57.5°	925.0	685.0	242.1	107.1	82.4	72.1	70.0	69.0	68.0	67.0	67.0
60°	918.8	662.3	210.1	102.0	80.3	70.0	65.9	65.9	65.9	63.9	64.9
62.5°	876.6	585.1	168.9	93.7	77.3	65.9	61.8	63.9	63.9	62.8	62.8
65°	765.4	483.1	137.0	86.5	73.1	62.8	58.7	61.8	62.8	61.8	60.8
67.5°	611.9	371.9	113.3	78.3	68.0	57.7	54.6	57.7	58.7	57.7	57.7
70°	420.3	240.0	91.7	70.0	60.8	52.5	49.4	51.5	51.5	52.5	52.5
72.5°	217.3	129.8	75.2	59.7	52.5	47.4	44.3	44.3	43.3	43.3	43.3
75°	108.2	88.6	62.8	50.5	44.3	40.2	38.1	36.1	36.1	36.1	36.1
77.5°	75.2	68.0	51.5	40.2	36.1	33.0	33.0	29.9	29.9	29.9	29.9
80°	56.7	53.6	39.1	30.9	27.8	25.8	25.8	24.7	24.7	23.7	23.7
82.5°	40.2	43.3	29.9	22.7	20.6	19.6	19.6	18.5	18.5	16.5	16.5
85°	31.9	36.1	22.7	16.5	15.5	13.4	13.4	12.4	12.4	11.3	10.3
87.5°	9.3	19.6	9.3	6.2	6.2	6.2	6.2	5.2	5.2	4.1	4.1
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)