

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: P675167

Luminaire Tested: **CCW-SA-1B-830-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675167  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-830-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4FT distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

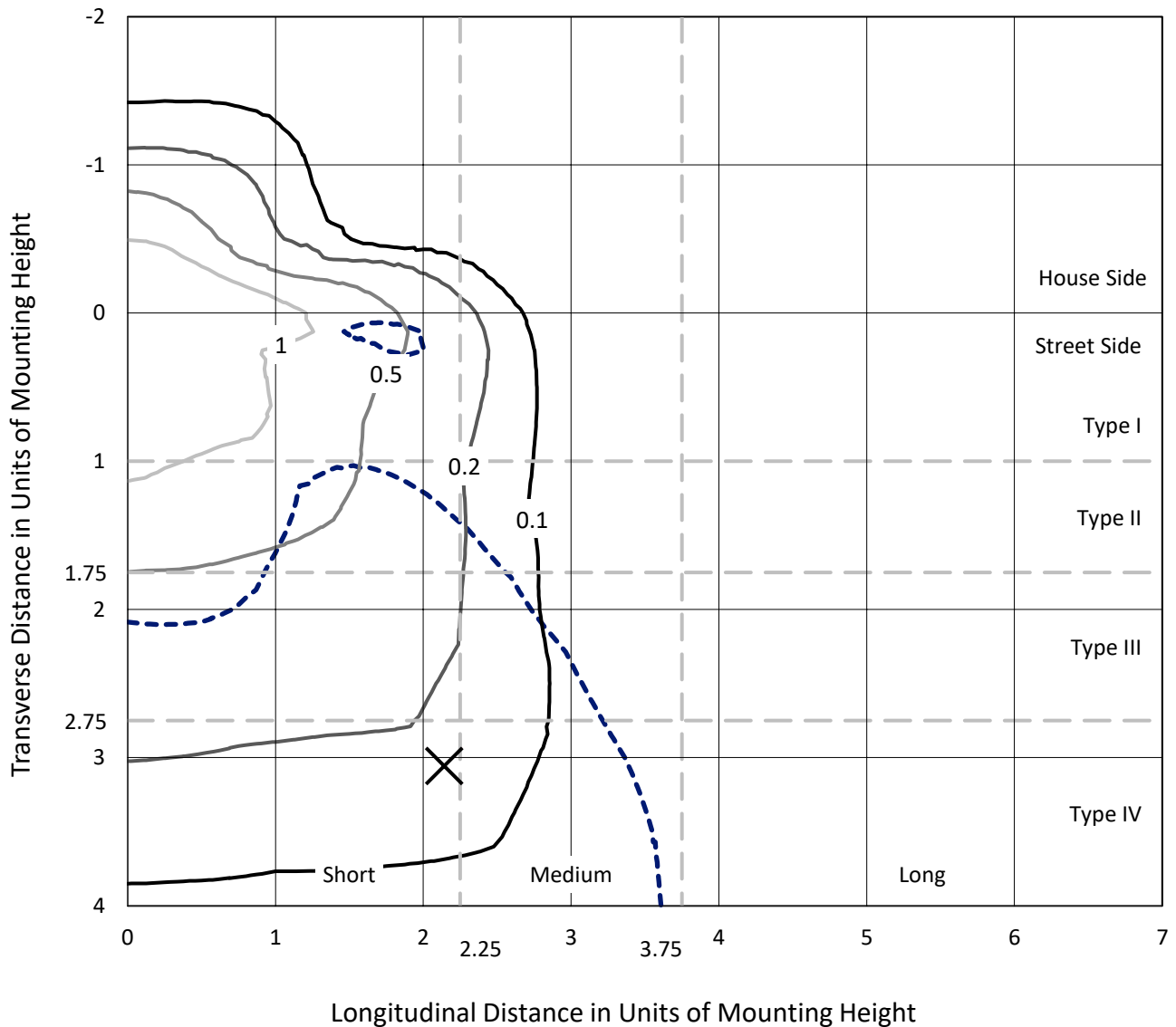
Lumens per Lamp: N/A  
Luminaire Lumens: 2742.5 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

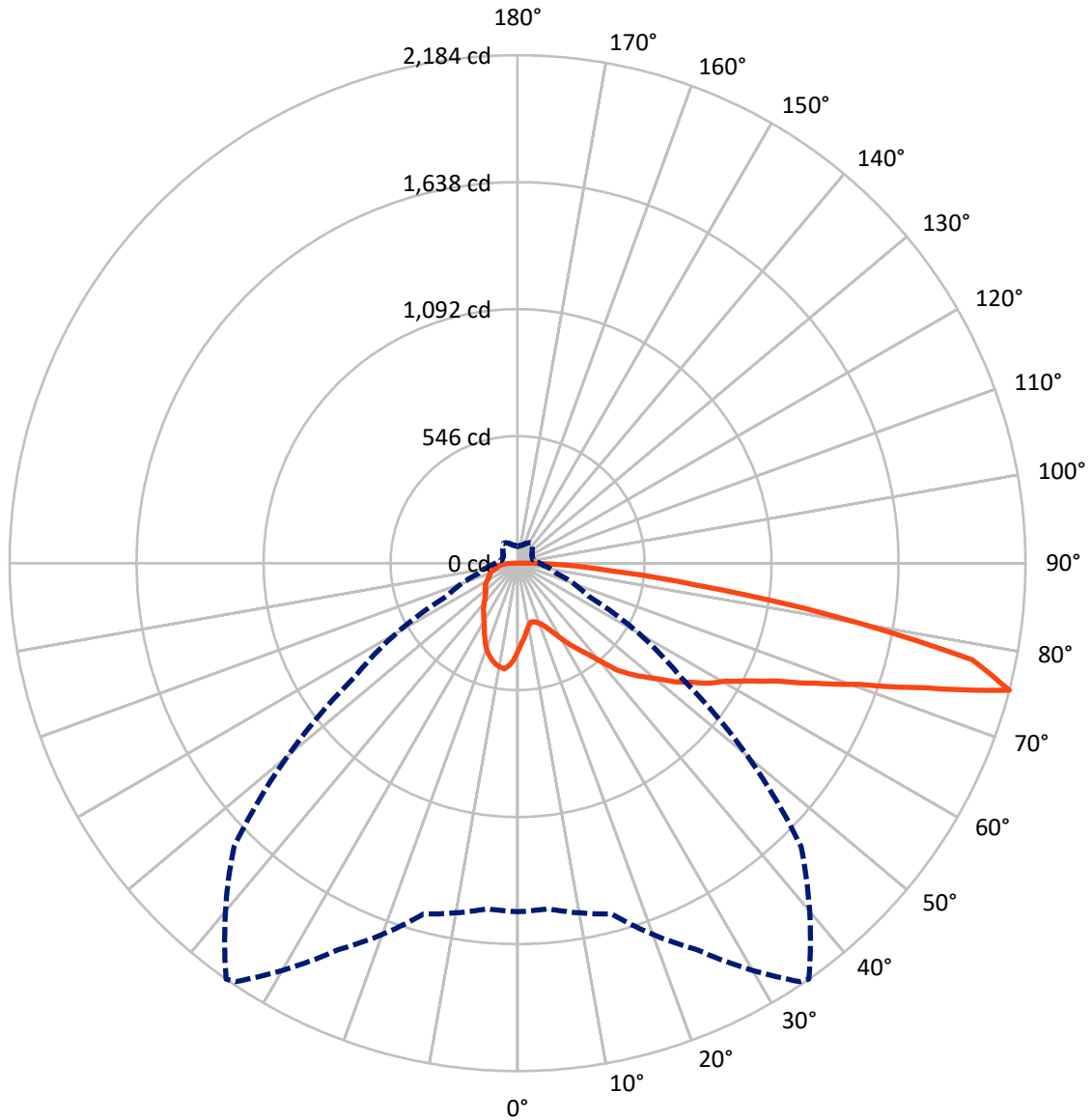
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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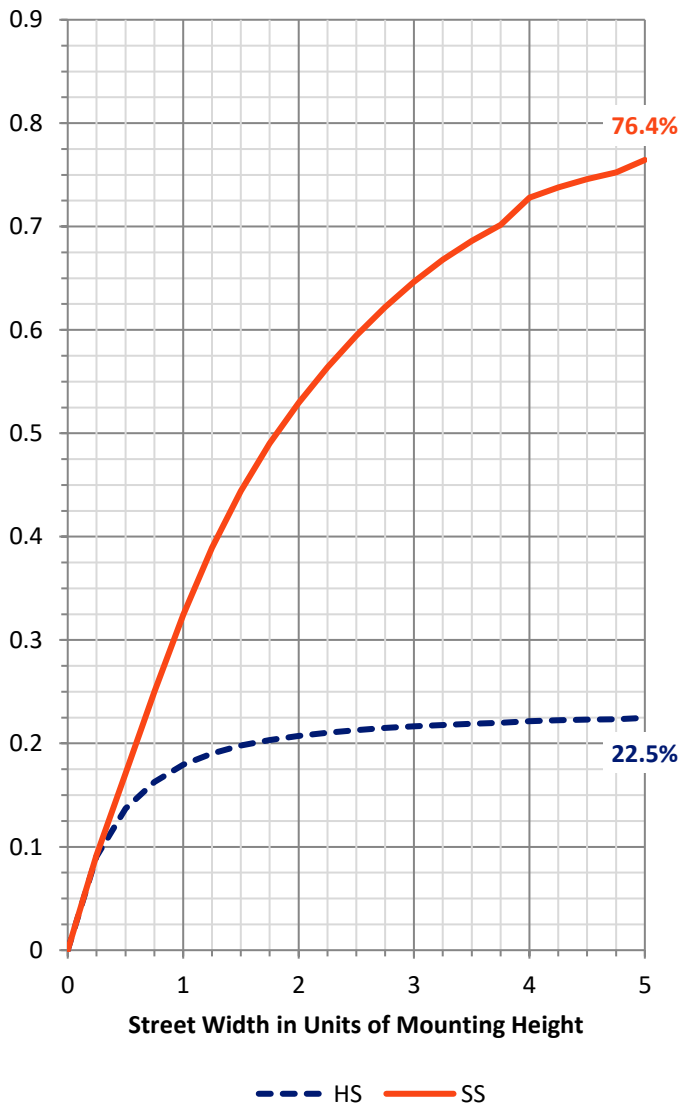
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	630.3	0.0	630.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2112.2	0.0	2112.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	2742.5	0.0	2742.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	1.3
10°-20°	103.9	3.8
20°-30°	172.4	6.3
30°-40°	255.6	9.3
40°-50°	368.5	13.4
50°-60°	506.8	18.5
60°-70°	626.0	22.8
70°-80°	572.7	20.9
80°-90°	100.8	3.7
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°	2742.5	100.0
0°-180°	2742.5	100.0



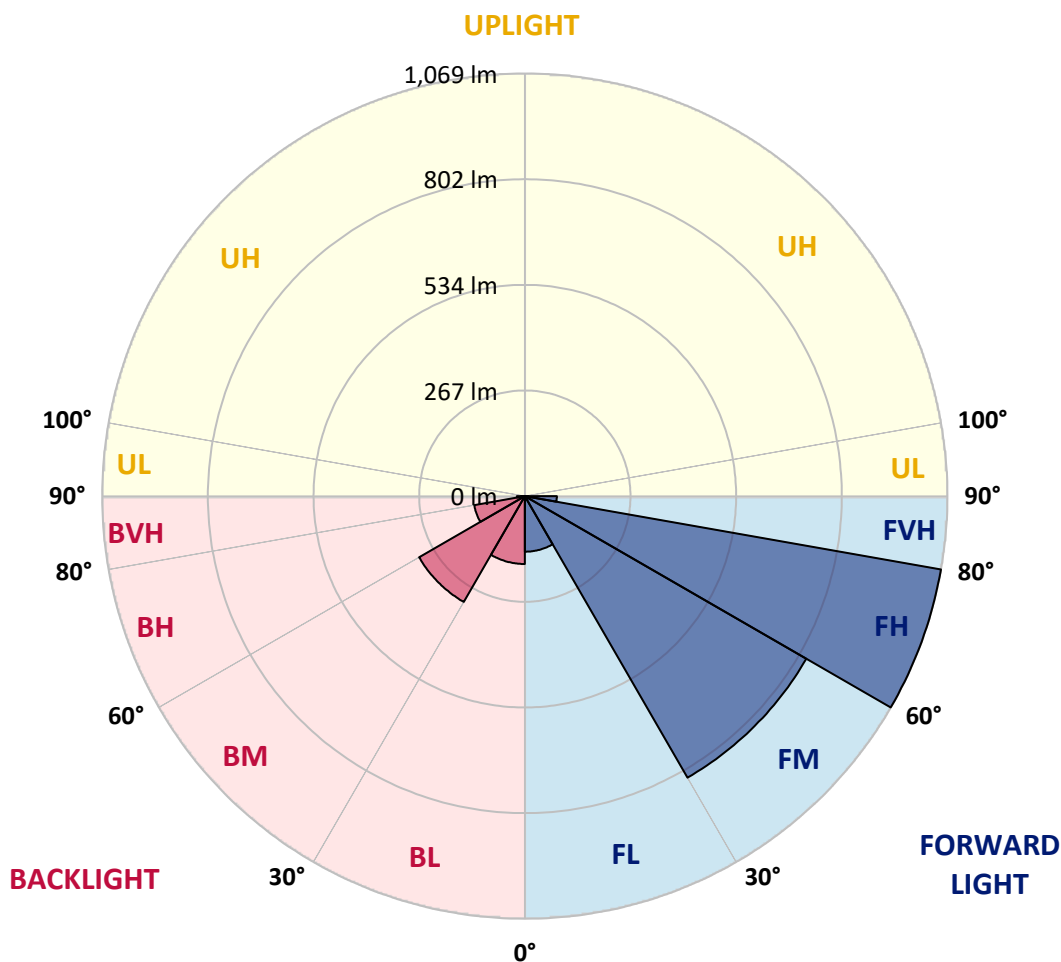
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	140.6	5.1			
FM (30°-60°)	822.0	30.0			
FH (60°-80°)	1068.7	39.0			G1/1800
FVH (80°-90°)	80.9	3.0			G1/100
BL (0°-30°)	171.6	6.3	B1/500		
BM (30°-60°)	308.9	11.3	B1/1000		
BH (60°-80°)	130.0	4.7	B1/500		G1/500
BVH (80°-90°)	19.9	0.7			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7
2.5°	340.4	337.4	340.4	342.4	342.4	342.4	345.4	354.5	360.6	364.6	371.7
5°	305.0	306.0	308.1	313.1	316.2	318.2	323.2	334.3	343.4	356.6	371.7
7.5°	273.7	275.7	278.8	283.8	290.9	289.9	301.0	316.2	333.3	350.5	372.7
10°	257.6	261.6	262.6	263.6	270.7	270.7	285.8	303.0	324.2	346.5	372.7
12.5°	260.6	260.6	257.6	256.6	260.6	259.6	272.7	292.9	316.2	347.5	376.8
15°	269.7	269.7	263.6	257.6	263.6	261.6	272.7	288.9	316.2	348.5	384.8
17.5°	281.8	282.8	275.7	265.6	267.7	268.7	276.8	291.9	316.2	350.5	395.9
20°	306.0	301.0	289.9	273.7	280.8	277.8	289.9	303.0	322.2	358.6	412.1
22.5°	327.3	327.3	306.0	291.9	292.9	292.9	304.0	315.1	331.3	369.7	424.2
25°	361.6	359.6	333.3	312.1	314.1	315.1	321.2	334.3	346.5	375.7	439.4
27.5°	405.0	400.0	373.7	349.5	341.4	344.4	347.5	357.6	360.6	385.8	457.6
30°	451.5	444.4	422.2	383.8	379.8	380.8	375.7	381.8	377.8	402.0	475.7
32.5°	480.8	480.8	459.6	431.3	420.2	420.2	403.0	407.1	407.1	417.2	508.1
35°	506.0	504.0	489.9	468.7	461.6	457.6	440.4	446.4	436.3	446.4	553.5
37.5°	544.4	538.4	532.3	518.2	504.0	501.0	491.9	495.9	481.8	476.8	605.0
40°	588.9	585.8	579.8	573.7	559.6	558.6	548.5	552.5	537.4	518.2	656.5
42.5°	654.5	645.4	626.2	621.2	624.2	628.3	624.2	617.1	589.9	565.6	712.1
45°	720.2	706.0	669.7	661.6	684.8	681.8	699.0	695.9	651.5	613.1	770.7
47.5°	762.6	750.5	721.2	716.1	726.2	730.3	781.8	772.7	702.0	656.5	827.2
50°	792.9	793.9	755.5	768.7	781.8	781.8	846.4	845.4	763.6	710.1	901.0
52.5°	837.3	823.2	807.0	819.2	837.3	847.4	927.2	905.0	802.0	755.5	983.8
55°	860.6	854.5	840.4	861.6	900.0	905.0	989.9	972.7	845.4	809.1	1068.6
57.5°	869.7	874.7	897.9	907.0	960.6	973.7	1046.4	1022.2	885.8	875.7	1134.3
60°	910.1	903.0	934.3	970.7	1022.2	1029.3	1117.1	1064.6	925.2	919.2	1155.5
62.5°	991.9	973.7	990.9	1034.3	1106.0	1115.1	1191.9	1121.2	942.4	948.5	1154.5
65°	1111.1	1097.9	1072.7	1107.0	1208.0	1221.2	1279.8	1169.7	937.3	938.3	1072.7
67.5°	1251.5	1230.3	1204.0	1225.2	1348.4	1378.7	1386.8	1190.9	902.0	881.8	872.7
70°	1374.7	1360.6	1343.4	1379.7	1551.5	1562.6	1520.1	1177.7	804.0	708.1	581.8
72.5°	1489.8	1482.8	1492.9	1629.2	1826.2	1833.3	1645.4	1094.9	635.3	429.3	270.7
75°	1498.9	1491.9	1561.6	1835.3	2170.6	2183.8	1723.2	858.6	335.3	174.7	114.1
77.5°	1015.1	1036.3	1166.6	1607.0	1993.9	1996.9	1409.0	399.0	138.4	103.0	79.8
80°	249.5	276.8	439.4	831.3	1344.4	1377.7	771.7	134.3	90.9	78.8	59.6
82.5°	90.9	99.0	178.8	375.7	755.5	768.7	269.7	72.7	65.7	60.6	43.4
85°	43.4	44.4	84.8	184.8	381.8	377.8	97.0	43.4	47.5	41.4	26.3
87.5°	18.2	18.2	37.4	85.9	168.7	163.6	31.3	20.2	27.3	24.2	13.1
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°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7
2.5°	376.8	378.8	386.9	392.9	399.0	404.0	412.1	412.1	417.2	417.2	417.2
5°	375.7	386.9	400.0	414.1	423.2	432.3	440.4	441.4	444.4	448.5	449.5
7.5°	379.8	390.9	412.1	432.3	443.4	447.5	457.6	454.5	454.5	454.5	457.6
10°	387.9	400.0	429.3	447.5	455.5	456.5	453.5	451.5	445.4	443.4	440.4
12.5°	393.9	415.1	444.4	458.6	455.5	452.5	445.4	435.3	428.3	426.2	426.2
15°	409.1	430.3	457.6	462.6	457.6	441.4	432.3	421.2	415.1	406.0	410.1
17.5°	422.2	446.4	470.7	464.6	454.5	429.3	416.1	400.0	391.9	381.8	381.8
20°	439.4	461.6	482.8	466.6	444.4	417.2	395.9	375.7	364.6	354.5	356.6
22.5°	458.6	478.8	489.9	458.6	429.3	398.0	368.7	349.5	335.3	329.3	331.3
25°	473.7	495.9	493.9	445.4	411.1	373.7	341.4	323.2	320.2	314.1	314.1
27.5°	492.9	516.1	490.9	429.3	380.8	335.3	315.1	308.1	308.1	305.0	307.1
30°	518.2	534.3	483.8	406.0	342.4	301.0	290.9	294.9	302.0	299.0	300.0
32.5°	559.6	557.6	477.8	379.8	302.0	267.7	274.7	282.8	288.9	291.9	293.9
35°	600.0	586.8	470.7	344.4	264.6	251.5	257.6	266.7	277.8	280.8	281.8
37.5°	640.4	617.1	458.6	301.0	241.4	237.4	243.4	248.5	257.6	259.6	261.6
40°	682.8	637.4	437.4	258.6	222.2	222.2	226.3	227.3	232.3	235.3	237.4
42.5°	720.2	656.5	399.0	219.2	202.0	209.1	210.1	208.1	204.0	206.1	207.1
45°	765.6	677.8	354.5	190.9	186.9	196.0	198.0	189.9	182.8	178.8	176.8
47.5°	810.1	700.0	316.2	167.7	172.7	186.9	186.9	177.8	165.7	155.5	151.5
50°	850.5	722.2	284.8	153.5	158.6	179.8	181.8	164.6	151.5	139.4	137.4
52.5°	918.1	759.6	252.5	142.4	150.5	174.7	173.7	158.6	141.4	128.3	127.3
55°	977.7	796.9	210.1	131.3	142.4	167.7	170.7	152.5	129.3	117.2	115.1
57.5°	1021.2	806.0	167.7	120.2	134.3	159.6	163.6	140.4	121.2	111.1	110.1
60°	1029.3	770.7	136.4	111.1	123.2	148.5	151.5	133.3	115.1	107.1	105.0
62.5°	991.9	703.0	116.2	103.0	114.1	137.4	143.4	125.2	109.1	102.0	101.0
65°	907.0	604.0	102.0	96.0	108.1	129.3	136.4	119.2	104.0	98.0	97.0
67.5°	718.2	463.6	90.9	90.9	100.0	121.2	131.3	115.1	99.0	94.9	93.9
70°	469.7	278.8	82.8	83.8	93.9	114.1	125.2	110.1	92.9	91.9	89.9
72.5°	202.0	128.3	73.7	76.8	84.8	102.0	116.2	103.0	85.9	82.8	79.8
75°	92.9	77.8	66.7	68.7	75.8	89.9	105.0	94.9	79.8	74.7	71.7
77.5°	65.7	56.6	55.6	59.6	64.6	77.8	92.9	88.9	73.7	69.7	67.7
80°	48.5	43.4	46.5	50.5	53.5	71.7	87.9	81.8	67.7	61.6	58.6
82.5°	34.3	32.3	36.4	40.4	43.4	62.6	80.8	71.7	56.6	51.5	46.5
85°	20.2	21.2	25.3	27.3	30.3	46.5	67.7	57.6	43.4	33.3	32.3
87.5°	9.1	9.1	12.1	13.1	15.2	27.3	45.5	36.4	27.3	21.2	20.2
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)