

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: P676664

Luminaire Tested: **CCW-SA-1C-722-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676664  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-722-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

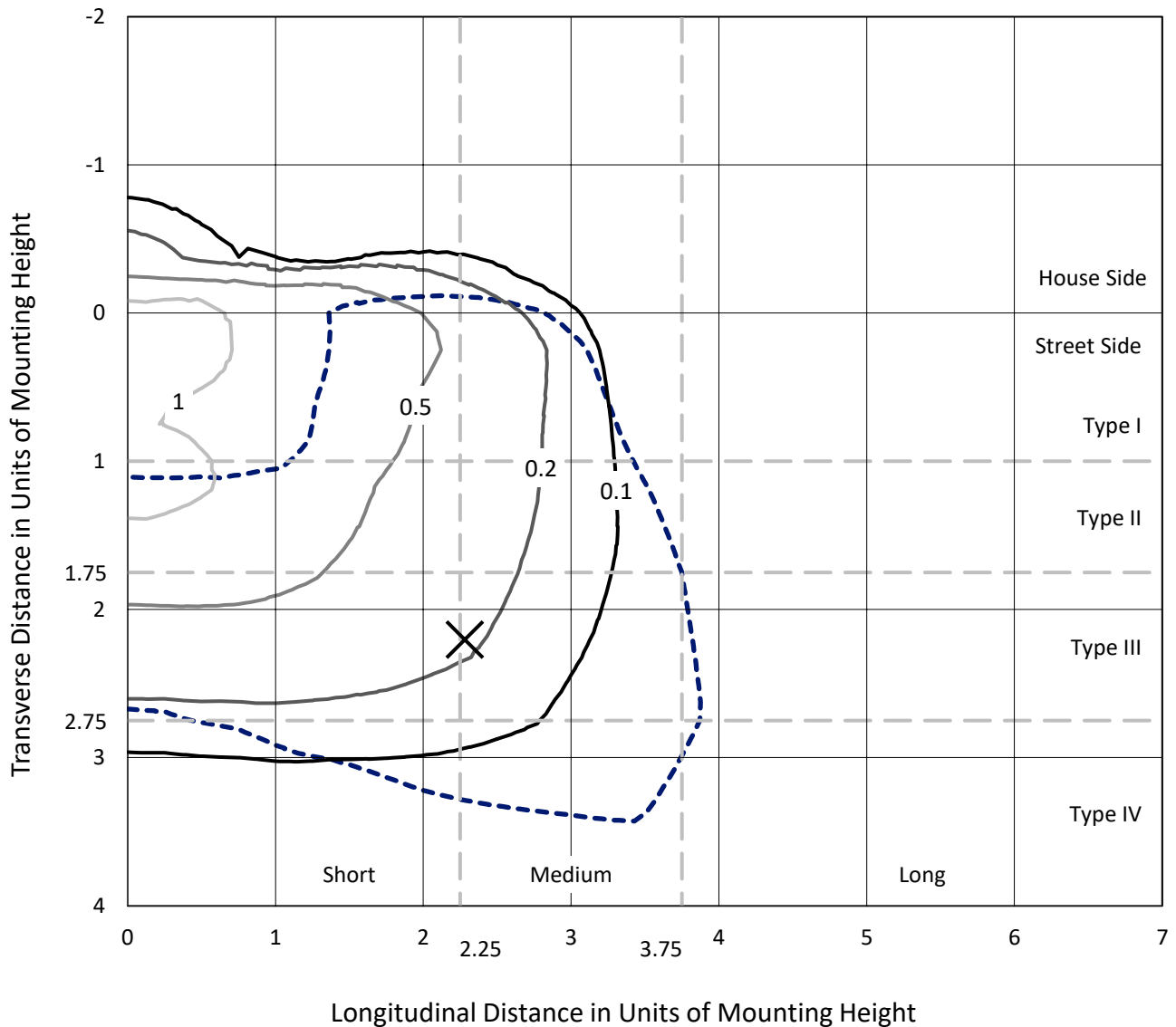
Lumens per Lamp: N/A  
Luminaire Lumens: 2402.8 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
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

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### Iso-Footcandle Lines of Horizontal Illumination

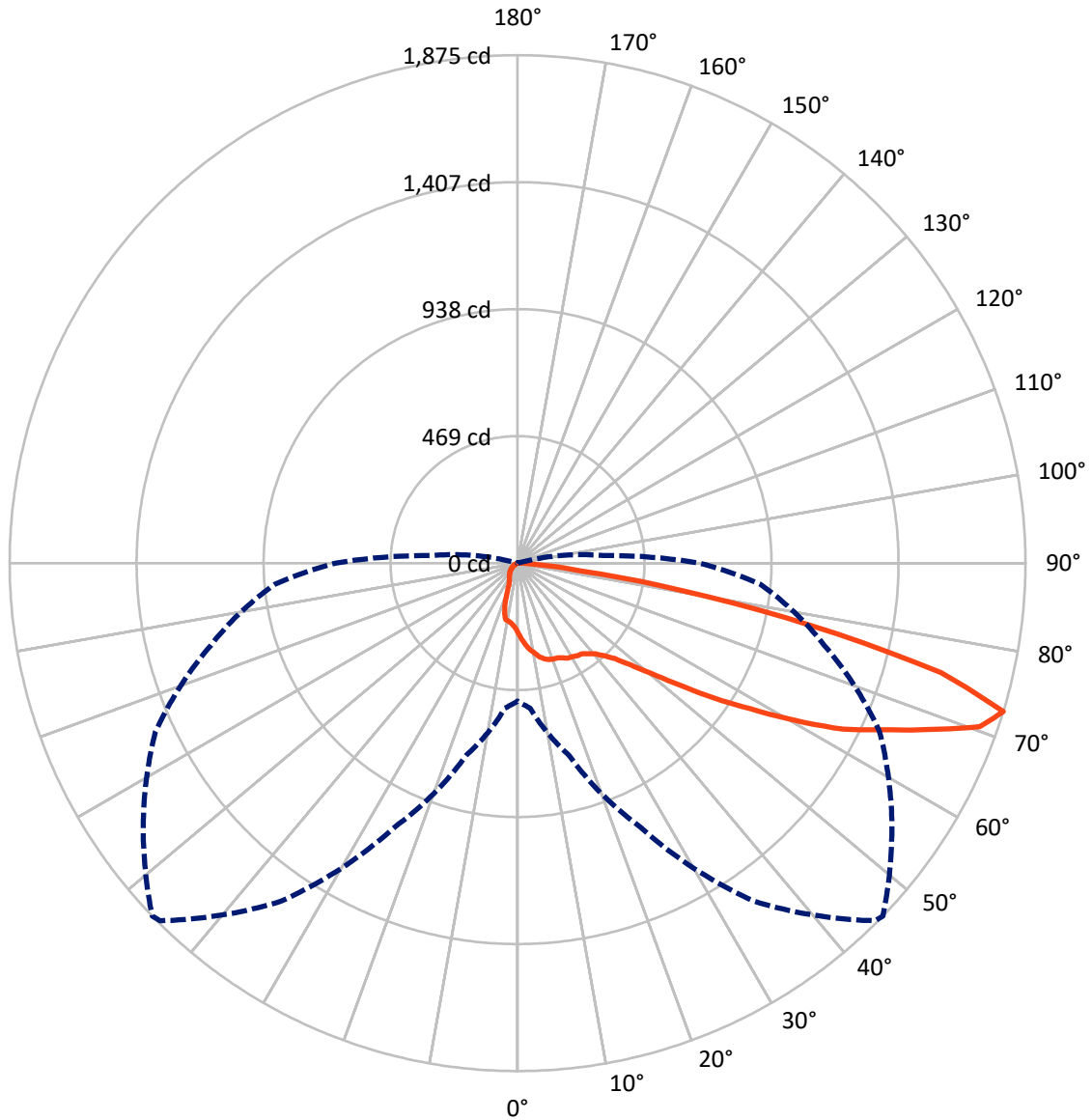
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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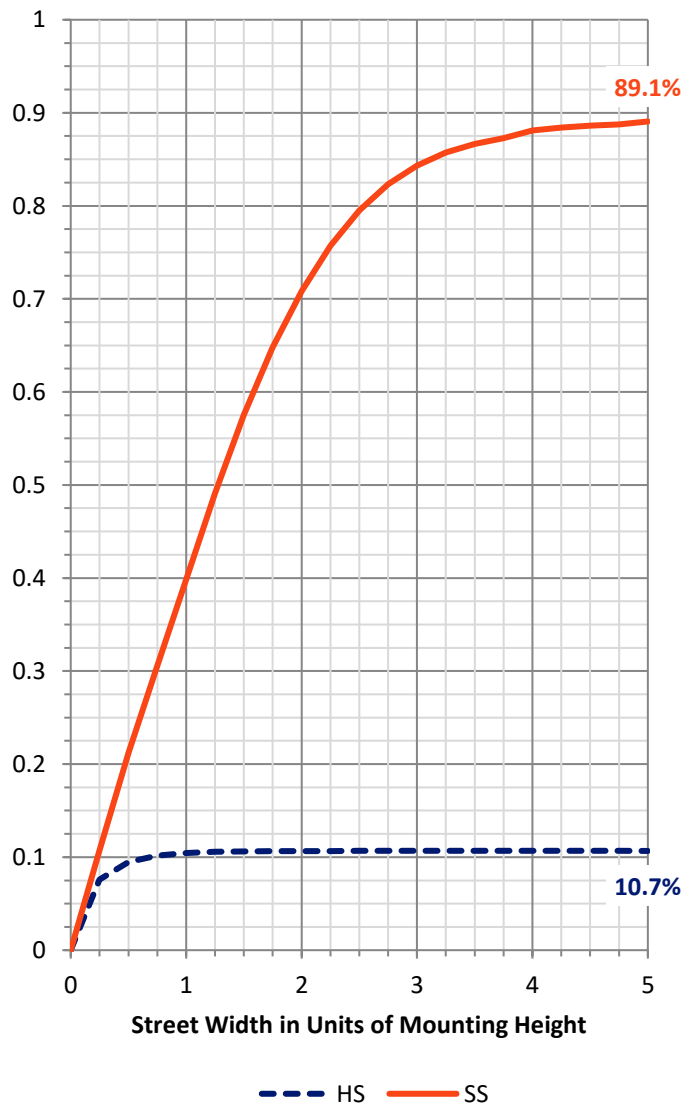
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	258.7	0.0	258.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2144.1	0.0	2144.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2402.8	0.0	2402.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.7	1.1
10°-20°	77.6	3.2
20°-30°	121.5	5.1
30°-40°	170.1	7.1
40°-50°	280.5	11.7
50°-60°	504.2	21.0
60°-70°	730.8	30.4
70°-80°	456.1	19.0
80°-90°	36.2	1.5
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°	2402.8	100.0
0°-180°	2402.8	100.0



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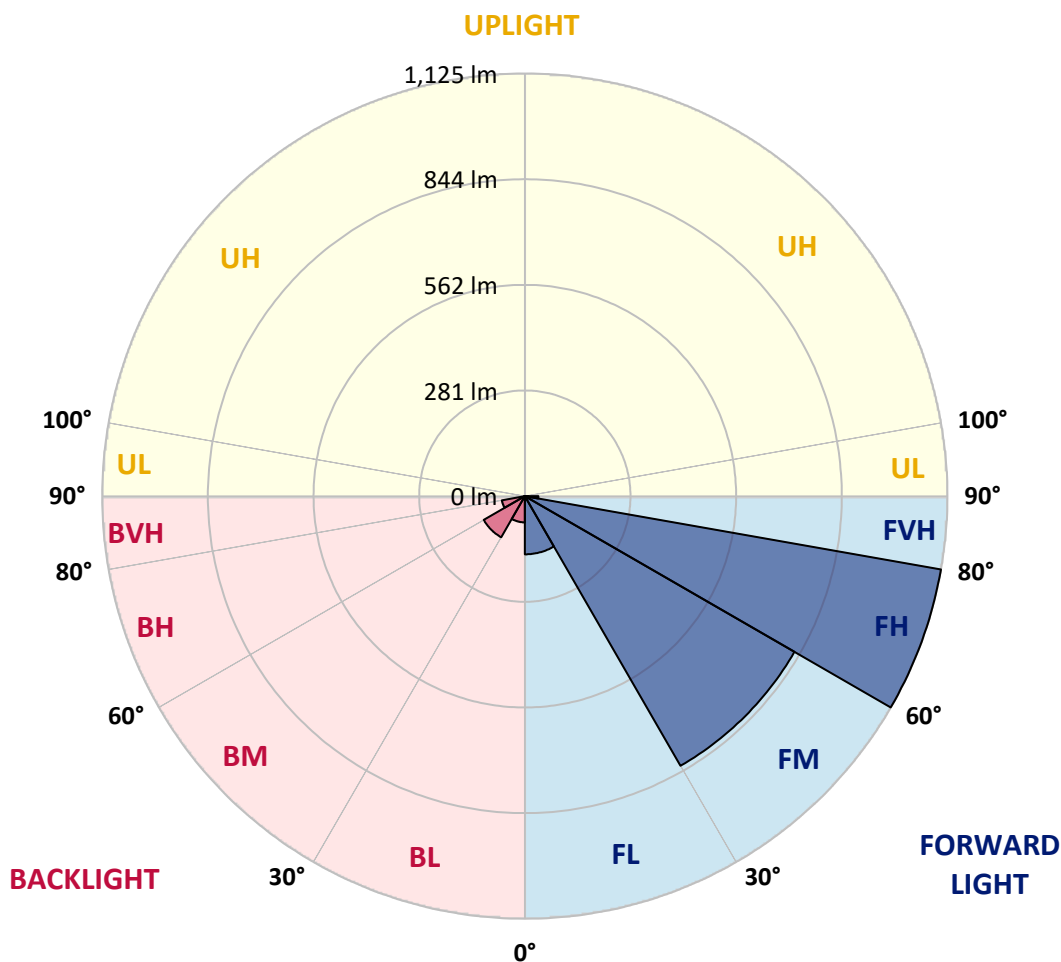
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.9	6.4			
FM (30°-60°)	828.5	34.5			
FH (60°-80°)	1124.7	46.8			G1/1800
FVH (80°-90°)	36.0	1.5			G1/100
BL (0°-30°)	69.9	2.9	B0/110		
BM (30°-60°)	126.4	5.3	B0/220		
BH (60°-80°)	62.2	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8
2.5°	287.4	286.2	288.1	287.4	280.1	281.3	280.7	275.8	267.2	262.3	259.3
5°	320.5	323.6	321.2	315.6	311.3	302.8	301.5	293.6	280.1	271.5	262.3
7.5°	354.9	354.9	350.0	341.4	332.2	323.0	321.8	308.3	296.6	281.9	269.1
10°	380.6	377.5	373.9	364.7	354.2	342.0	335.9	326.1	313.2	295.4	278.9
12.5°	403.3	398.4	392.2	378.8	366.5	353.0	354.2	338.3	329.7	313.8	289.3
15°	416.2	411.9	406.3	394.1	375.1	369.0	366.5	356.7	341.4	325.4	302.2
17.5°	419.2	416.2	408.8	392.9	382.4	375.1	374.5	362.8	356.1	342.6	316.9
20°	413.1	407.6	402.1	391.6	381.8	379.4	377.5	377.5	369.0	351.2	326.1
22.5°	402.7	396.5	393.5	387.3	379.4	378.8	380.0	378.8	372.0	360.4	335.9
25°	394.7	391.6	386.7	384.9	380.0	389.2	387.3	385.5	383.7	370.2	351.2
27.5°	397.2	396.5	392.9	385.5	381.8	391.6	397.2	397.8	397.2	383.7	365.3
30°	398.4	395.3	391.6	389.8	391.0	400.8	400.8	414.3	408.8	395.3	379.4
32.5°	412.5	410.6	398.4	394.1	394.7	406.3	407.0	420.4	418.6	409.4	391.6
35°	442.5	430.2	412.5	400.2	400.2	415.5	410.6	430.2	435.1	420.4	400.2
37.5°	487.2	478.1	446.2	418.6	408.2	419.2	424.1	435.1	449.9	437.0	417.4
40°	576.1	574.3	528.9	469.5	428.4	438.2	440.1	457.2	467.0	449.2	443.7
42.5°	706.0	696.9	654.6	560.8	465.2	460.9	467.6	478.7	502.0	487.2	473.8
45°	832.9	828.6	786.3	681.5	532.0	506.2	502.6	522.2	556.5	540.6	530.1
47.5°	924.8	916.3	892.4	804.1	630.0	559.6	562.0	581.6	625.1	612.9	616.0
50°	995.3	991.0	965.9	917.5	753.9	643.5	638.6	658.2	717.1	725.0	733.6
52.5°	1072.6	1080.5	1046.8	1005.7	900.3	756.3	745.3	752.0	828.0	846.4	870.3
55°	1146.7	1159.6	1125.9	1120.4	1053.6	881.3	879.5	863.6	961.6	964.1	976.9
57.5°	1195.1	1190.8	1188.4	1218.4	1206.8	1024.7	1015.6	999.6	1088.5	1072.6	1111.2
60°	1198.8	1211.1	1252.1	1326.3	1347.1	1193.3	1179.8	1136.3	1198.2	1160.2	1233.7
62.5°	1226.4	1236.2	1312.2	1414.5	1441.5	1341.6	1350.8	1240.5	1292.0	1261.9	1369.8
65°	1156.5	1187.2	1339.8	1483.2	1565.3	1491.8	1482.6	1374.7	1388.2	1360.0	1504.0
67.5°	1093.4	1105.0	1264.4	1504.0	1663.4	1642.5	1638.9	1493.6	1487.5	1435.4	1542.0
70°	888.7	902.8	1060.3	1397.4	1696.5	1818.4	1809.9	1660.3	1554.9	1394.3	1347.1
72.5°	509.3	537.5	734.9	1076.2	1524.3	1867.5	1875.4	1687.3	1475.2	1172.5	899.7
75°	166.7	174.7	305.2	609.8	1140.0	1629.1	1615.0	1450.1	1190.2	774.1	406.3
77.5°	56.4	57.6	90.1	220.6	631.9	1100.7	1108.7	1036.4	731.2	321.8	112.2
80°	28.8	30.6	44.1	82.7	259.9	599.4	612.3	590.8	306.4	95.0	27.0
82.5°	13.5	14.1	25.7	46.0	118.9	235.3	235.3	258.6	108.5	53.3	11.0
85°	4.9	4.9	13.5	26.4	50.3	78.4	79.1	79.7	57.0	39.8	4.9
87.5°	1.8	1.8	6.7	11.0	18.4	23.9	23.9	19.0	28.8	26.4	1.8
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°	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8
2.5°	258.0	254.3	251.3	247.0	241.5	238.4	239.0	235.3	235.3	233.5	232.9
5°	258.0	254.3	246.4	239.0	234.1	228.0	224.9	222.5	222.5	221.3	221.9
7.5°	259.9	254.3	243.3	233.5	225.5	219.4	214.5	213.9	212.7	209.6	212.1
10°	270.9	262.9	244.5	231.1	221.9	215.1	206.5	204.1	200.4	194.9	195.5
12.5°	280.1	269.7	253.1	234.7	223.1	212.1	192.4	171.0	161.8	152.0	152.6
15°	293.6	278.9	256.2	239.6	223.1	187.5	152.0	124.4	109.7	102.4	102.4
17.5°	300.9	288.7	264.8	242.7	205.3	152.6	107.9	84.0	81.5	82.7	82.7
20°	316.2	299.7	274.6	245.2	175.9	108.5	79.1	76.6	77.8	80.3	79.7
22.5°	326.1	309.5	281.9	234.1	136.1	77.8	74.2	72.9	74.2	77.2	77.2
25°	334.0	323.6	293.6	207.2	96.2	70.5	69.3	70.5	71.7	72.9	74.8
27.5°	353.6	335.9	301.5	172.2	69.3	65.6	66.8	67.4	67.4	69.3	69.9
30°	366.5	352.4	307.7	133.0	61.3	60.7	61.9	62.5	63.1	65.0	65.6
32.5°	378.8	373.9	299.7	90.1	57.6	56.4	55.8	56.4	58.8	60.7	60.1
35°	396.5	393.5	288.1	62.5	53.9	51.5	50.3	50.9	52.7	54.5	53.9
37.5°	418.0	421.1	259.9	54.5	50.3	47.2	44.7	44.7	45.4	47.2	47.8
40°	443.1	451.1	226.8	50.9	47.8	44.1	41.7	38.6	38.0	37.4	38.0
42.5°	489.1	498.3	189.4	48.4	44.1	39.8	36.2	32.5	29.4	27.6	27.6
45°	553.4	546.1	140.4	46.0	42.3	36.2	30.6	26.4	22.1	20.2	20.2
47.5°	642.3	617.2	96.2	43.5	39.2	31.9	25.7	20.2	16.5	14.7	14.7
50°	765.5	682.8	62.5	41.1	37.4	27.6	20.8	14.7	12.3	11.6	12.3
52.5°	881.9	749.6	49.6	38.0	33.7	23.9	15.9	12.3	11.0	10.4	10.4
55°	989.2	783.3	44.1	34.9	30.6	19.6	13.5	10.4	9.8	9.2	9.2
57.5°	1079.9	794.9	38.0	30.6	24.5	15.3	11.0	9.2	8.0	7.4	7.4
60°	1158.4	798.0	29.4	24.5	17.8	11.6	9.2	8.0	6.7	5.5	5.5
62.5°	1220.9	776.5	20.8	17.2	12.3	9.2	8.0	5.5	3.7	2.5	1.8
65°	1270.5	733.6	14.1	11.6	8.0	6.7	4.9	2.5	0.6	0.0	0.0
67.5°	1212.3	636.2	11.0	8.6	5.5	4.3	2.5	0.6	0.0	0.0	0.0
70°	988.6	493.4	8.0	5.5	3.7	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	673.0	318.1	6.1	3.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0
75°	302.2	114.0	4.3	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	73.5	27.0	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.6	6.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	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	0.0

(END OF REPORT)