

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: P676525

Luminaire Tested: **CCW-SA-2B-722-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676525  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-722-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

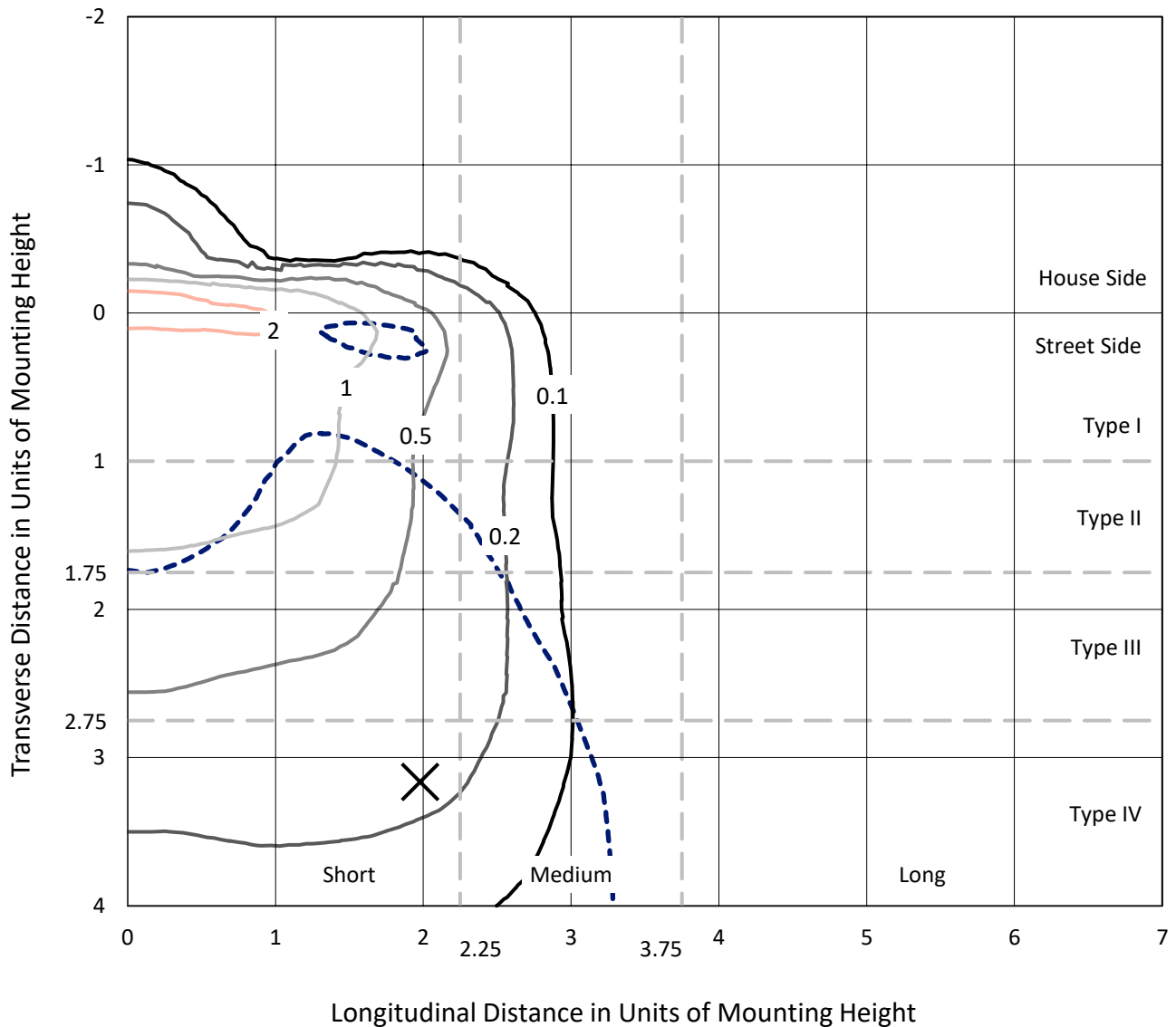
Lumens per Lamp: N/A  
Luminaire Lumens: 3652.8 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

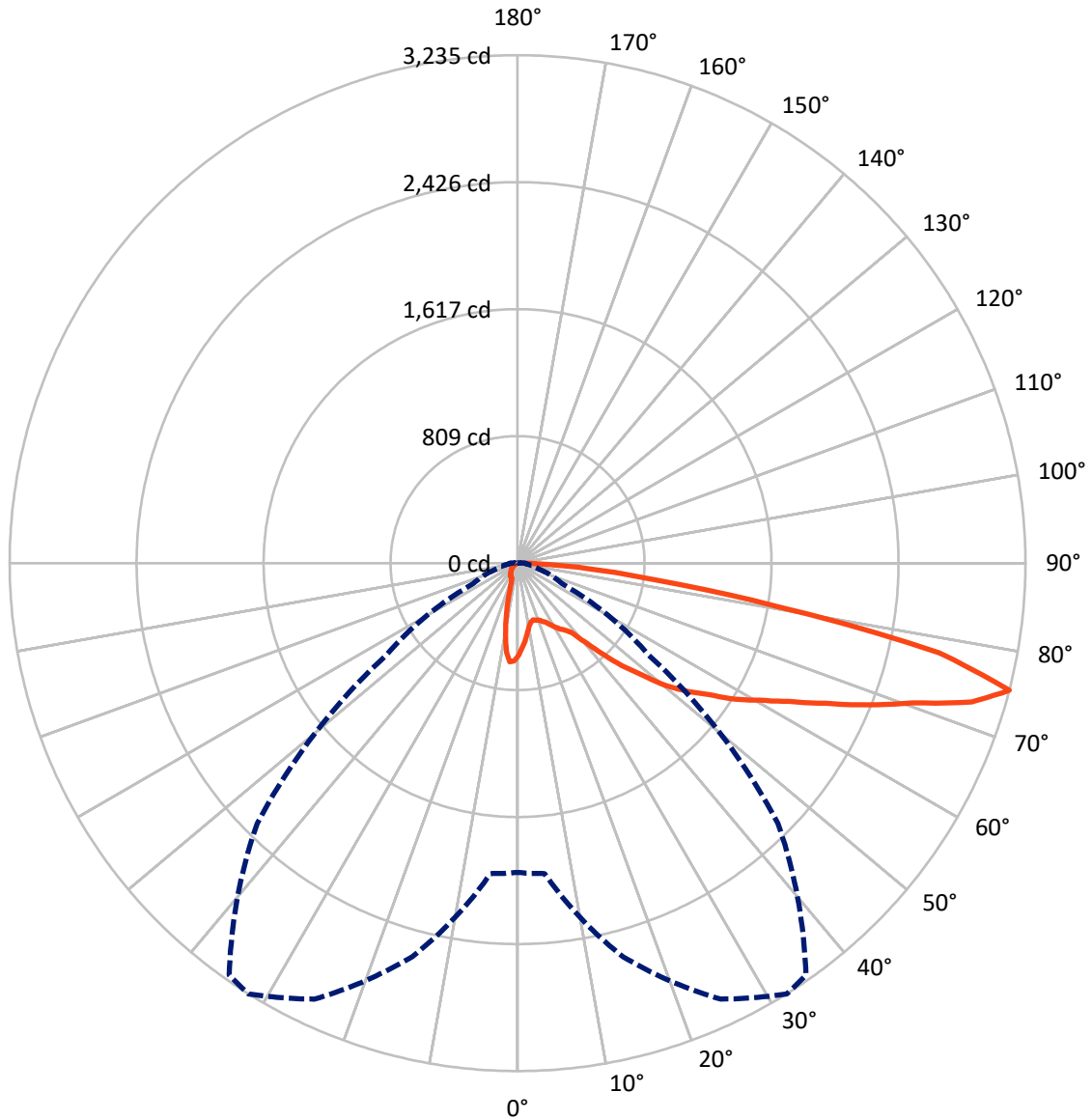
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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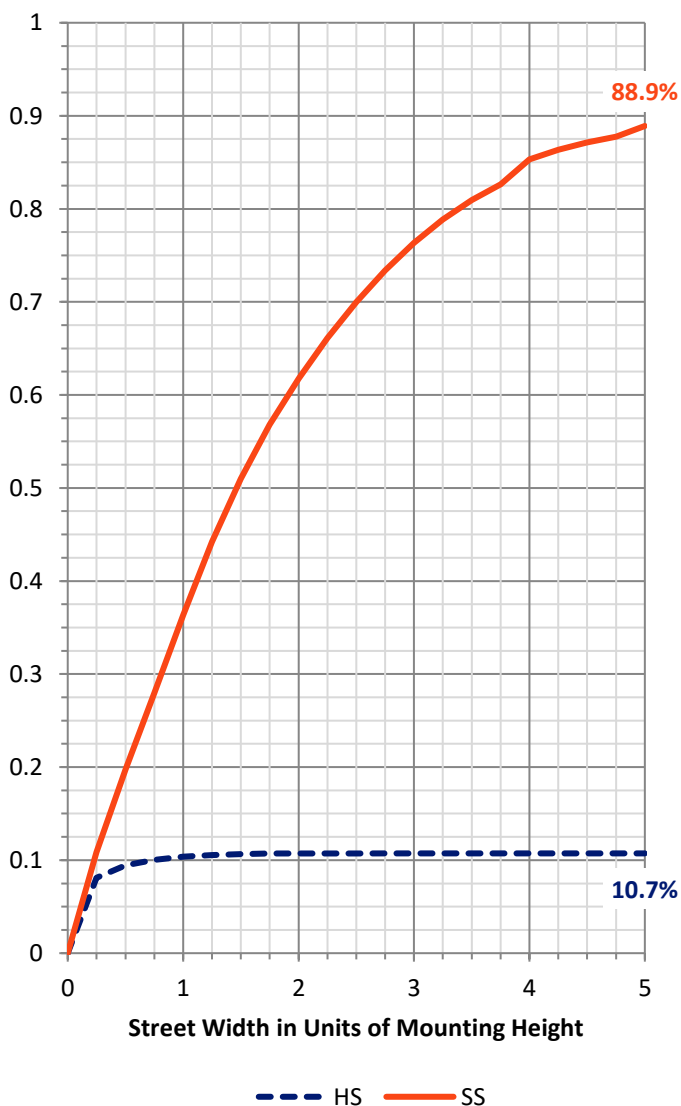
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.6	0.0	394.6
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3258.2	0.0	3258.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3652.8	0.0	3652.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	1.4
10°-20°	117.7	3.2
20°-30°	176.2	4.8
30°-40°	270.5	7.4
40°-50°	473.0	12.9
50°-60°	739.3	20.2
60°-70°	955.8	26.2
70°-80°	778.5	21.3
80°-90°	90.1	2.5
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°	3652.8	100.0
0°-180°	3652.8	100.0



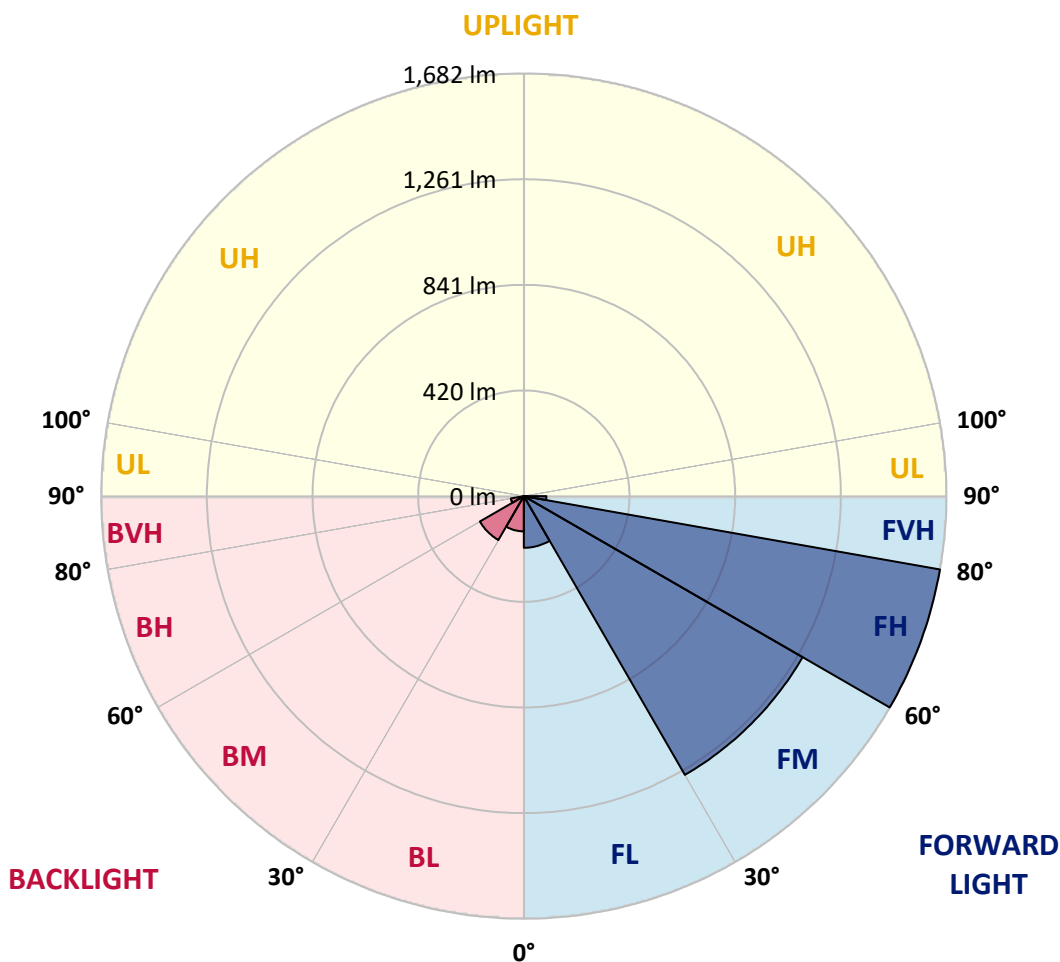
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.5	5.6			
FM (30°-60°)	1280.8	35.1			
FH (60°-80°)	1681.8	46.0			G1/1800
FVH (80°-90°)	90.0	2.5			G1/100
BL (0°-30°)	140.2	3.8	B1/500		
BM (30°-60°)	201.9	5.5	B0/220		
BH (60°-80°)	52.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8
2.5°	529.0	536.4	535.5	540.2	541.1	543.9	550.5	550.5	569.2	582.3	590.7
5°	481.2	476.5	478.4	484.0	498.1	497.1	513.0	521.5	543.9	562.7	582.3
7.5°	422.2	421.3	425.0	438.1	448.4	456.9	473.7	495.3	525.2	553.3	587.9
10°	384.8	382.9	390.4	394.1	406.3	411.9	438.1	471.8	507.4	547.7	587.9
12.5°	376.4	369.8	373.5	372.6	383.8	386.7	411.9	453.1	496.2	545.8	595.4
15°	381.0	376.4	372.6	372.6	375.4	377.3	404.4	441.0	489.6	548.6	612.3
17.5°	396.0	393.2	382.0	370.7	382.9	382.9	399.8	438.1	490.6	557.0	632.9
20°	413.8	411.0	391.3	378.2	386.7	396.0	413.8	444.7	493.4	563.6	664.7
22.5°	433.5	433.5	406.3	391.3	402.6	403.5	435.3	465.3	504.6	580.4	685.3
25°	457.8	455.9	429.7	412.9	416.6	426.9	455.9	487.8	525.2	603.9	723.7
27.5°	489.6	486.8	455.9	439.1	443.8	455.0	487.8	519.6	543.9	613.2	756.5
30°	515.9	513.0	487.8	462.5	472.8	483.1	521.5	549.6	567.3	631.0	793.9
32.5°	521.5	516.8	499.9	488.7	499.9	519.6	549.6	578.6	605.7	675.9	865.1
35°	586.1	569.2	525.2	507.4	524.3	530.8	580.4	631.9	658.2	711.5	944.6
37.5°	709.6	693.7	635.7	586.1	562.7	570.2	634.7	698.4	723.7	778.0	1031.7
40°	861.3	835.1	773.3	706.8	659.1	649.7	691.9	785.5	809.8	861.3	1145.9
42.5°	1034.5	1009.2	913.7	835.1	786.4	774.2	780.8	886.6	907.2	938.1	1220.8
45°	1159.0	1145.9	1038.3	968.0	929.7	916.5	900.6	997.1	1023.3	1033.6	1329.4
47.5°	1231.1	1221.8	1161.8	1114.1	1062.6	1048.6	1058.9	1150.6	1132.8	1141.2	1433.3
50°	1327.5	1303.2	1221.8	1236.7	1226.4	1222.7	1240.5	1280.7	1254.5	1230.2	1546.6
52.5°	1405.2	1362.2	1305.1	1341.6	1357.5	1371.5	1434.3	1464.2	1347.2	1309.8	1619.6
55°	1453.0	1411.8	1426.8	1460.5	1477.3	1541.9	1615.9	1593.4	1408.1	1373.4	1717.0
57.5°	1496.1	1498.9	1539.1	1549.4	1635.6	1646.8	1789.1	1716.1	1451.1	1431.5	1755.4
60°	1600.0	1589.7	1622.5	1688.9	1771.3	1834.0	1969.8	1798.5	1472.7	1461.4	1745.1
62.5°	1787.2	1723.6	1734.8	1819.1	1939.8	2008.2	2073.7	1835.9	1467.0	1466.1	1714.2
65°	2025.0	1952.0	1918.3	1996.9	2153.3	2249.7	2190.7	1878.0	1429.6	1455.8	1599.0
67.5°	2222.6	2223.5	2160.8	2204.8	2408.9	2429.5	2301.2	1869.6	1366.9	1374.4	1318.2
70°	2450.1	2481.0	2425.7	2563.3	2665.4	2678.5	2427.6	1800.3	1232.1	1036.4	757.4
72.5°	2508.1	2524.0	2696.3	2907.9	3023.0	3026.8	2552.1	1569.1	810.8	457.8	235.0
75°	1969.8	1984.8	2595.2	3063.3	3234.6	3201.8	2344.3	1018.6	315.5	133.9	56.2
77.5°	1099.1	1103.8	1611.2	2476.3	2744.0	2612.0	1642.1	397.0	127.3	76.8	26.2
80°	300.5	353.0	597.3	1220.8	1675.8	1644.9	781.7	129.2	82.4	59.9	12.2
82.5°	72.1	77.7	191.9	540.2	885.7	924.0	233.1	65.5	57.1	49.6	6.6
85°	26.2	29.0	59.0	263.1	455.0	417.5	70.2	32.8	42.1	38.4	2.8
87.5°	9.4	9.4	18.7	86.1	132.9	100.2	23.4	11.2	21.5	23.4	0.9
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°	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8
2.5°	591.7	591.7	604.8	616.0	619.8	624.5	619.8	630.1	629.1	624.5	626.3
5°	592.6	609.5	620.7	628.2	631.9	631.0	632.9	621.6	615.1	610.4	605.7
7.5°	597.3	613.2	633.8	631.9	621.6	600.1	583.3	553.3	524.3	523.3	518.7
10°	613.2	627.3	639.4	631.9	594.5	529.0	475.6	435.3	398.8	382.0	383.8
12.5°	624.5	650.7	645.0	606.7	529.0	442.8	364.2	305.2	272.4	241.5	241.5
15°	647.9	657.2	655.3	570.2	448.4	345.5	250.0	190.1	155.4	141.4	139.5
17.5°	670.3	680.6	648.8	514.9	368.9	232.2	151.7	118.0	113.3	111.4	112.3
20°	698.4	699.3	643.2	459.7	277.1	147.0	108.6	105.8	106.7	105.8	105.8
22.5°	728.4	734.9	623.5	382.0	184.4	106.7	101.1	102.0	102.0	102.0	104.9
25°	767.7	757.4	592.6	308.0	120.8	98.3	98.3	99.2	99.2	99.2	100.2
27.5°	793.9	779.9	553.3	221.9	94.6	92.7	94.6	94.6	96.4	96.4	96.4
30°	848.2	811.7	503.7	143.2	85.2	88.0	89.9	91.7	92.7	94.6	95.5
32.5°	890.3	839.8	441.9	95.5	77.7	79.6	84.3	88.0	91.7	90.8	90.8
35°	967.1	885.7	384.8	75.8	71.2	71.2	75.8	82.4	88.0	89.9	89.9
37.5°	1055.1	923.1	305.2	69.3	65.5	65.5	68.3	75.8	83.3	87.1	85.2
40°	1128.1	966.2	225.6	64.6	60.9	60.9	62.7	68.3	76.8	83.3	84.3
42.5°	1179.6	998.0	152.6	59.9	57.1	56.2	59.0	61.8	68.3	77.7	79.6
45°	1226.4	1014.9	94.6	55.2	53.4	53.4	53.4	56.2	60.9	69.3	71.2
47.5°	1309.8	1033.6	68.3	51.5	48.7	49.6	50.6	51.5	55.2	57.1	58.0
50°	1380.0	1047.6	56.2	47.7	45.9	46.8	46.8	46.8	48.7	45.9	45.9
52.5°	1433.3	1033.6	47.7	44.0	42.1	43.1	42.1	42.1	40.3	36.5	36.5
55°	1472.7	1008.3	38.4	40.3	40.3	40.3	38.4	35.6	31.8	29.0	29.0
57.5°	1483.0	965.2	30.0	33.7	36.5	36.5	32.8	29.0	24.3	21.5	20.6
60°	1467.0	871.6	22.5	24.3	28.1	29.0	26.2	21.5	16.9	14.0	14.0
62.5°	1409.9	797.7	17.8	15.9	20.6	21.5	18.7	14.0	9.4	6.6	5.6
65°	1301.3	683.4	13.1	11.2	14.0	15.0	12.2	6.6	2.8	0.9	0.0
67.5°	1043.9	514.9	8.4	7.5	9.4	9.4	5.6	1.9	0.0	0.0	0.0
70°	577.6	289.3	5.6	3.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	166.6	82.4	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.9	19.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.7	7.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.0	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)