

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: P677100

Luminaire Tested: **CCW-SA-2A-722-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677100  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-722-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

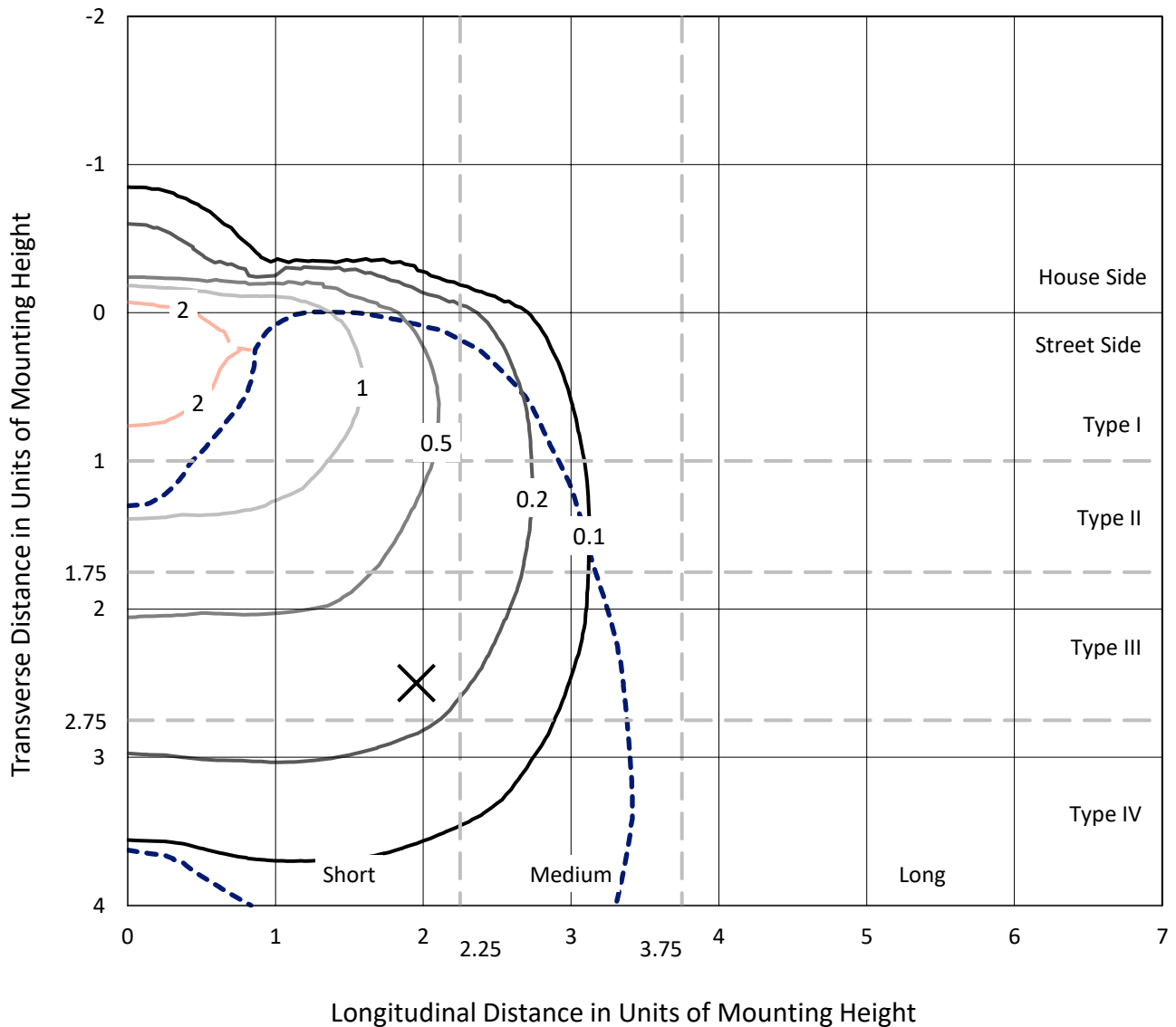
Lumens per Lamp: N/A  
Luminaire Lumens: 3329.2 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2  
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

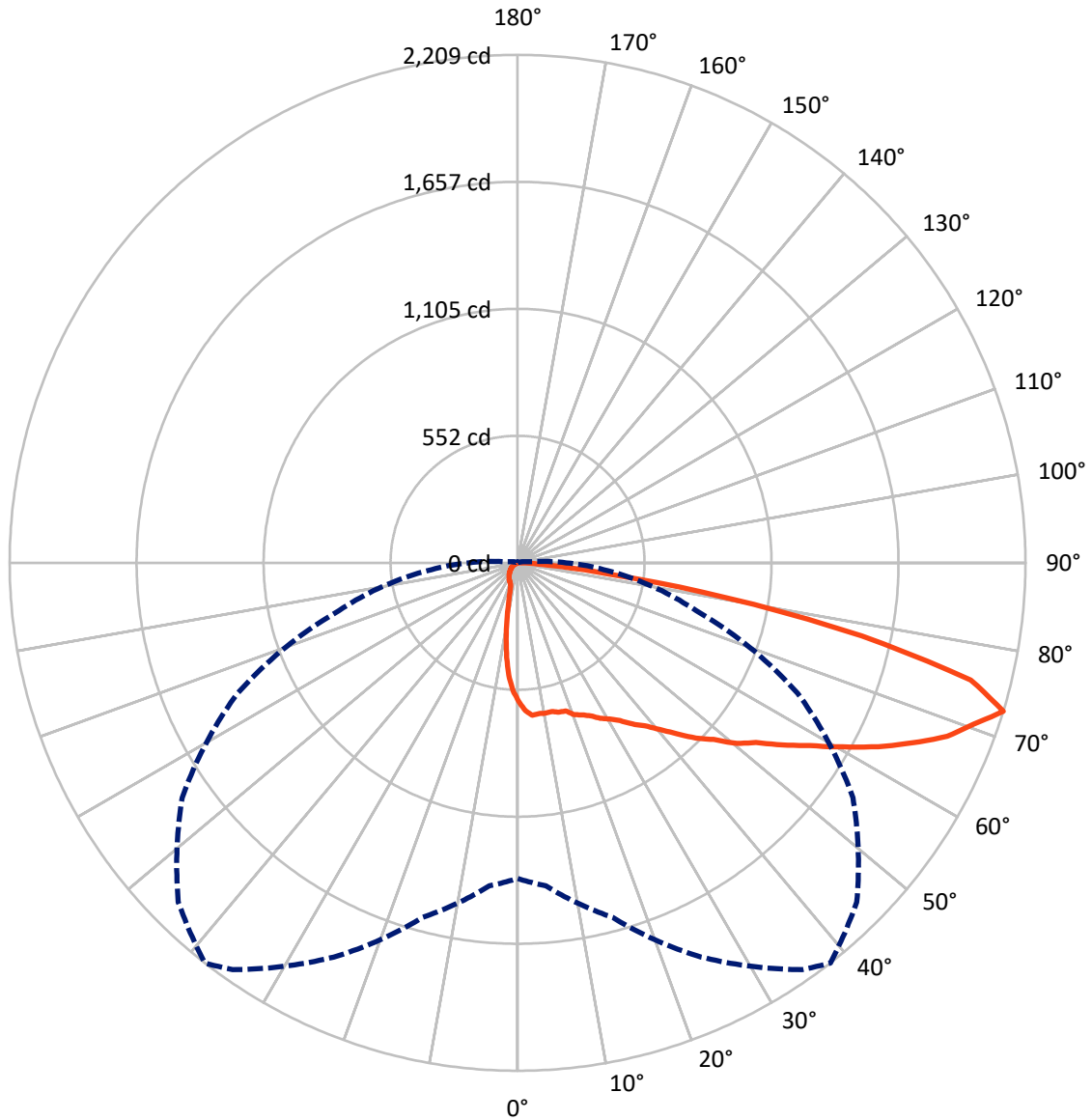
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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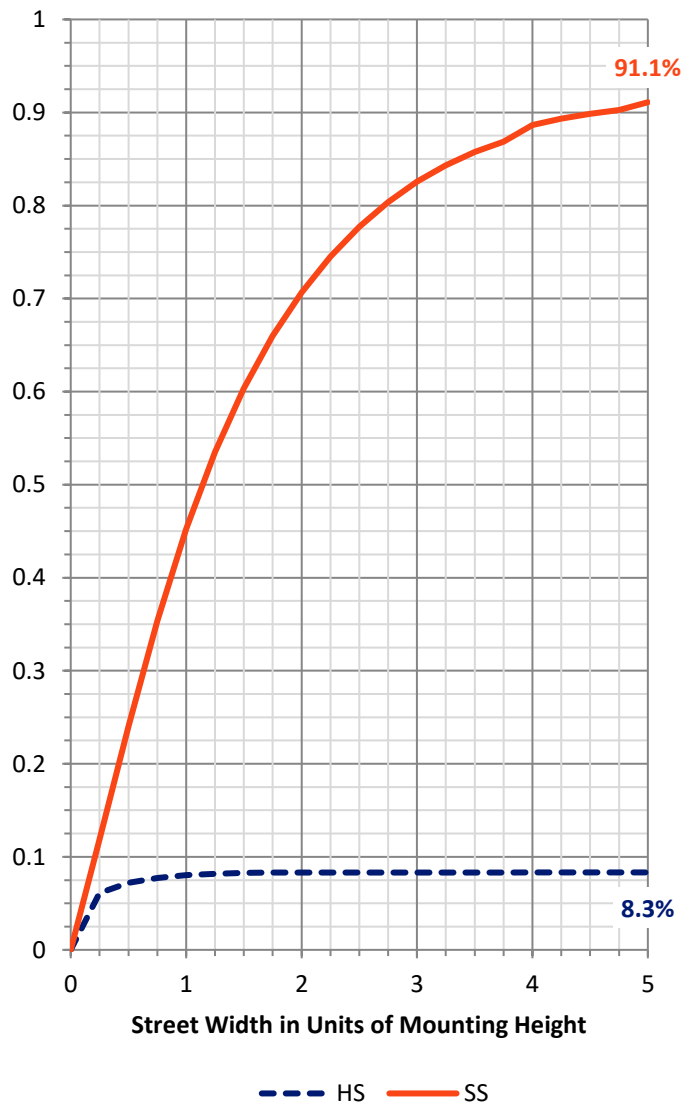
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	278.8	0.0	278.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3050.4	0.0	3050.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	3329.2	0.0	3329.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	1.6
10°-20°	129.0	3.9
20°-30°	206.8	6.2
30°-40°	312.3	9.4
40°-50°	475.3	14.3
50°-60°	669.1	20.1
60°-70°	817.4	24.6
70°-80°	593.5	17.8
80°-90°	73.1	2.2
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°	3329.2	100.0
0°-180°	3329.2	100.0

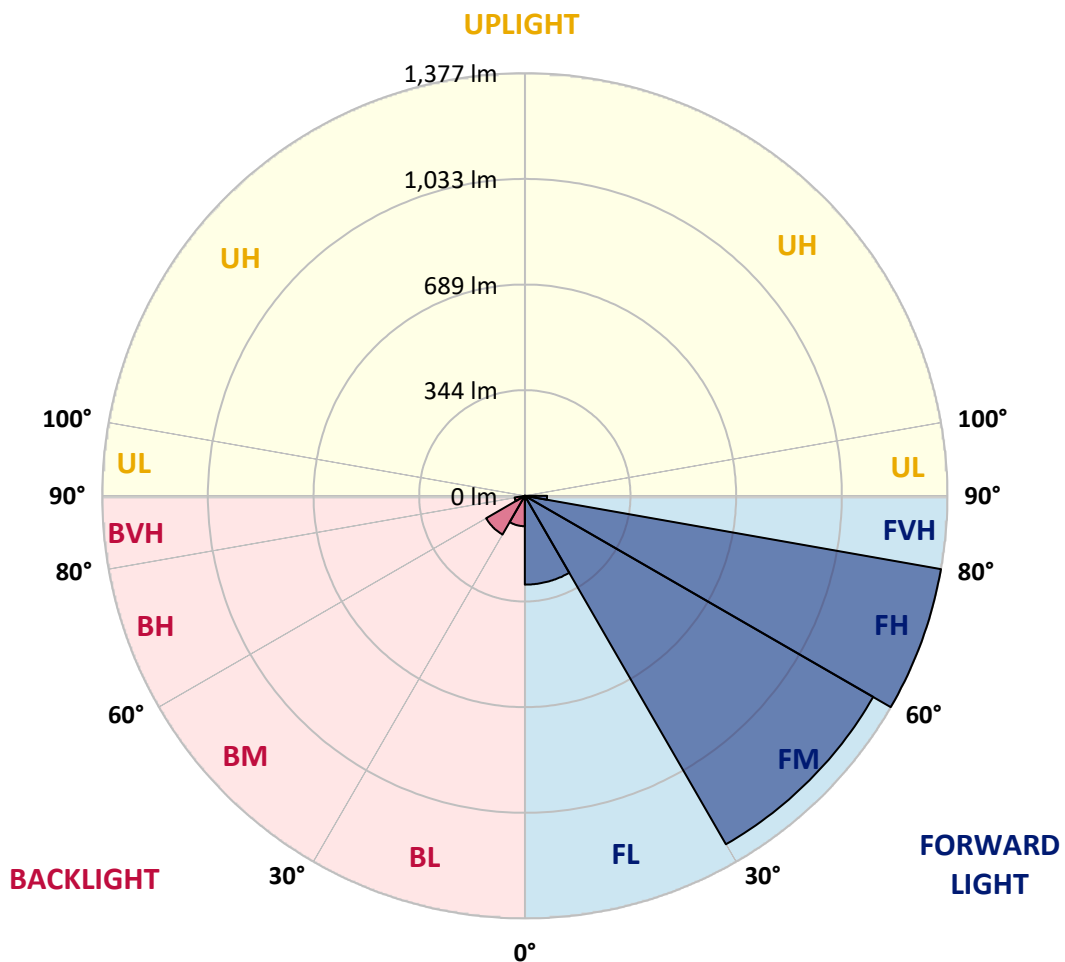


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.6	8.7			
FM (30°-60°)	1311.1	39.4			
FH (60°-80°)	1377.1	41.4			G1/1800
FVH (80°-90°)	72.7	2.2			G1/100
BL (0°-30°)	99.0	3.0	B0/110		
BM (30°-60°)	145.7	4.4	B0/220		
BH (60°-80°)	33.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	661.4	661.4	667.6	661.4	659.1	644.2	645.0	637.2	629.4	618.5	608.3
5°	669.2	674.7	678.6	673.1	664.5	666.1	671.6	656.7	635.6	622.4	599.7
7.5°	666.1	677.8	674.7	671.6	666.1	662.2	654.4	648.1	638.0	625.5	598.9
10°	663.7	667.6	668.4	666.1	654.4	665.3	656.7	646.6	634.1	619.2	586.4
12.5°	655.2	655.2	662.2	656.7	658.3	663.7	659.8	657.5	644.2	631.7	602.8
15°	645.8	648.9	659.8	668.4	676.2	673.9	671.6	664.5	652.8	638.8	608.3
17.5°	648.1	649.7	666.9	682.5	678.6	677.0	689.5	674.7	663.0	647.3	613.0
20°	656.7	661.4	680.9	701.2	705.1	705.1	700.4	691.9	675.5	654.4	621.6
22.5°	665.3	666.9	698.9	724.6	728.6	718.4	722.3	697.3	681.7	670.0	630.2
25°	698.1	695.0	729.3	749.6	747.3	737.1	733.2	711.4	705.1	684.0	648.9
27.5°	742.6	729.3	762.9	775.4	762.9	766.0	755.1	731.7	718.4	705.9	657.5
30°	769.9	777.7	795.7	808.2	787.1	787.9	782.4	756.7	736.4	739.5	686.4
32.5°	812.1	817.6	830.8	836.3	819.9	818.4	812.9	792.6	777.7	774.6	725.4
35°	857.4	867.5	868.3	869.9	855.1	861.3	853.5	824.6	832.4	837.9	772.3
37.5°	901.9	892.5	908.2	915.2	898.8	898.8	901.1	881.6	895.7	912.1	838.7
40°	919.1	923.0	950.3	944.9	964.4	952.7	961.3	956.6	968.3	1005.8	932.4
42.5°	937.0	941.7	978.4	988.6	1012.0	1015.9	1028.4	1029.2	1063.5	1125.2	1022.2
45°	971.4	963.6	1013.6	1038.6	1076.8	1087.8	1102.6	1115.1	1169.0	1241.6	1124.5
47.5°	1002.6	991.7	1048.7	1098.7	1145.5	1147.9	1188.5	1201.8	1265.8	1348.6	1226.0
50°	1046.4	1050.3	1074.5	1160.4	1208.0	1235.3	1263.5	1307.2	1378.2	1466.5	1299.4
52.5°	1091.7	1087.8	1128.4	1212.7	1287.7	1297.8	1361.1	1410.3	1487.6	1553.9	1332.2
55°	1147.1	1151.8	1167.4	1278.3	1373.6	1397.8	1468.8	1520.4	1604.7	1591.4	1343.1
57.5°	1202.5	1197.9	1233.0	1351.7	1481.3	1499.3	1593.8	1624.2	1681.2	1616.4	1315.8
60°	1257.2	1265.8	1280.6	1434.5	1599.2	1625.8	1700.7	1716.4	1728.9	1628.1	1294.7
62.5°	1319.7	1299.4	1345.4	1521.9	1705.4	1760.9	1820.2	1758.5	1747.6	1607.0	1246.3
65°	1350.9	1357.2	1417.3	1621.9	1846.8	1887.4	1895.2	1815.5	1759.3	1560.2	1201.0
67.5°	1399.3	1407.9	1484.4	1724.2	1992.0	2014.7	1986.5	1867.1	1749.2	1499.3	1037.8
70°	1405.6	1426.7	1574.2	1831.1	2083.4	2102.9	2081.0	1901.4	1667.2	1259.5	768.4
72.5°	1372.8	1410.3	1596.1	1892.1	2159.9	2209.1	2086.5	1780.4	1343.9	803.5	393.6
75°	1037.0	1068.2	1461.0	1801.5	2024.0	2035.7	1831.9	1358.7	765.3	274.1	100.7
77.5°	537.2	591.1	975.3	1376.7	1542.2	1529.7	1275.2	800.4	263.2	71.8	40.6
80°	308.4	321.7	426.4	773.1	969.8	922.2	705.1	345.1	115.6	35.9	26.5
82.5°	152.3	171.0	229.6	345.9	484.9	399.0	264.7	206.9	64.8	19.5	23.4
85°	32.8	34.4	117.1	165.5	196.8	129.6	90.6	174.1	23.4	11.7	22.6
87.5°	23.4	22.6	32.8	74.2	54.7	33.6	53.9	91.4	5.5	5.5	4.7
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°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	602.1	595.0	587.2	572.4	568.5	566.1	552.9	552.1	549.7	544.3	541.9
5°	585.7	573.9	559.1	543.5	531.0	508.3	481.0	467.0	449.8	450.6	445.1
7.5°	583.3	561.4	540.4	507.6	467.7	425.6	383.4	356.1	336.6	324.8	327.2
10°	572.4	556.0	521.6	460.7	396.7	332.7	278.8	238.2	214.7	196.8	202.2
12.5°	577.1	545.0	496.6	415.4	324.1	245.2	178.0	139.0	121.8	115.6	117.1
15°	573.9	545.0	481.8	366.2	254.6	166.3	115.6	103.1	100.0	100.0	98.4
17.5°	583.3	551.3	456.8	317.8	182.7	110.9	99.2	96.8	94.5	94.5	94.5
20°	596.6	554.4	439.6	263.9	128.8	97.6	92.9	91.4	90.6	90.6	89.8
22.5°	597.4	551.3	407.6	204.6	99.2	92.1	88.2	87.5	87.5	85.9	85.9
25°	602.1	554.4	373.3	153.8	92.1	86.7	83.6	82.8	83.6	82.8	82.0
27.5°	613.8	559.9	338.9	112.4	86.7	82.0	79.6	78.9	78.9	78.9	77.3
30°	628.6	559.9	300.6	92.9	82.0	77.3	75.0	74.2	73.4	73.4	73.4
32.5°	659.8	577.8	253.8	82.8	75.7	71.8	69.5	69.5	68.7	68.7	67.9
35°	698.9	590.3	206.2	76.5	70.3	66.4	64.0	64.0	63.3	63.3	62.5
37.5°	747.3	621.6	157.7	71.8	64.8	60.9	58.6	58.6	58.6	57.8	57.8
40°	816.0	653.6	117.1	65.6	59.3	55.4	53.9	53.1	52.3	52.3	50.8
42.5°	889.4	702.8	87.5	60.9	54.7	51.5	49.2	46.9	46.9	44.5	44.5
45°	969.1	745.7	71.1	55.4	50.0	46.1	43.7	42.2	39.8	38.3	38.3
47.5°	1047.2	772.3	62.5	49.2	45.3	42.2	39.8	36.7	33.6	32.8	32.0
50°	1110.4	780.1	55.4	44.5	41.4	38.3	35.1	31.2	28.1	26.5	25.8
52.5°	1110.4	737.1	50.0	39.8	37.5	34.4	30.5	25.8	21.9	20.3	19.5
55°	1110.4	669.2	44.5	36.7	33.6	31.2	25.8	21.1	17.2	14.8	14.1
57.5°	1094.0	587.2	39.8	32.8	29.7	26.5	21.9	16.4	12.5	10.2	10.2
60°	1048.7	501.3	34.4	28.9	25.8	21.9	17.2	11.7	7.8	5.5	5.5
62.5°	990.9	399.0	29.7	24.2	21.1	18.0	13.3	7.8	3.1	1.6	1.6
65°	890.2	294.4	25.8	20.3	16.4	13.3	8.6	3.1	0.0	0.0	0.0
67.5°	734.8	196.8	20.3	16.4	14.1	9.4	5.5	0.8	0.0	0.0	0.0
70°	516.9	111.7	15.6	11.7	10.2	6.2	1.6	0.0	0.0	0.0	0.0
72.5°	212.4	49.2	10.9	8.6	7.0	3.1	0.0	0.0	0.0	0.0	0.0
75°	57.8	21.9	7.0	4.7	3.9	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	33.6	14.8	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.5	7.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	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)