

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: P675373

Luminaire Tested: **CCW-SA-2B-722-U-SL2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675373  
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-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL2 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

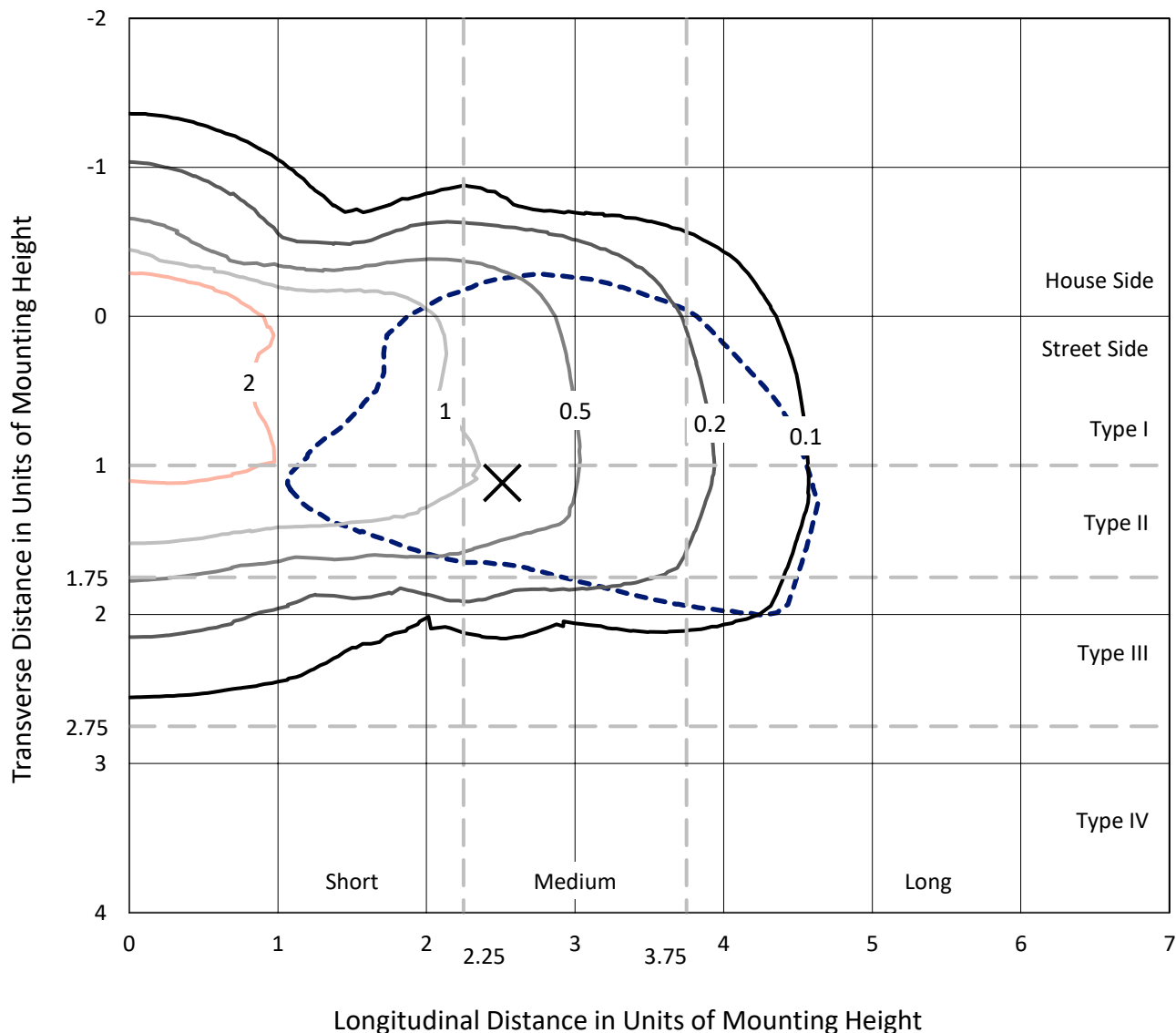
Lumens per Lamp: N/A  
Luminaire Lumens: 5034.7 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

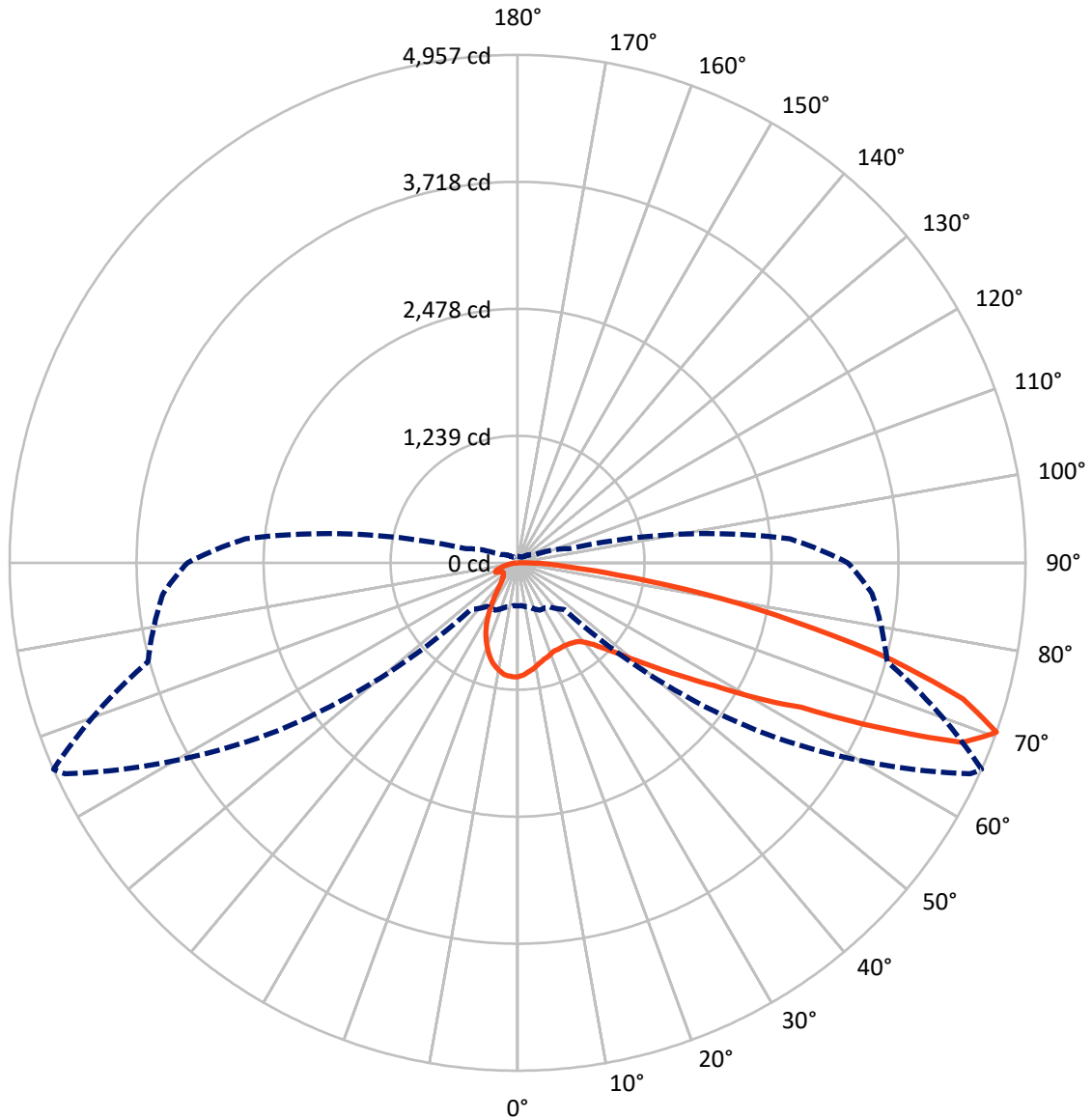
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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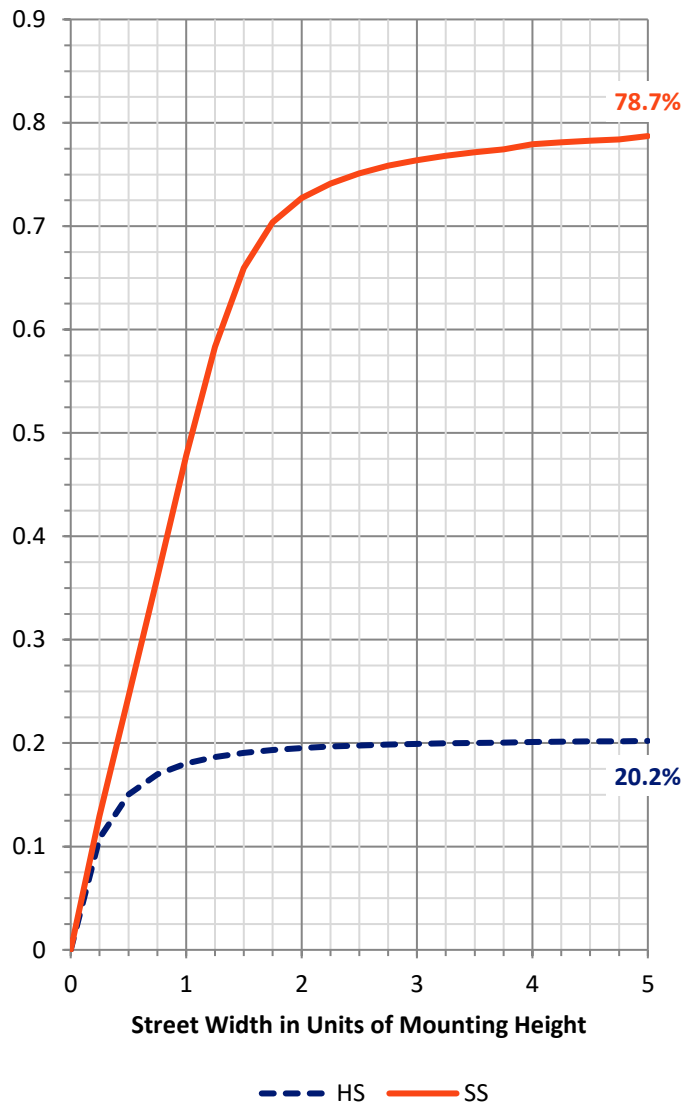
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1030.5	0.0	1030.5
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	4004.1	0.0	4004.1
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	5034.7	0.0	5034.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	2.0
10°-20°	242.1	4.8
20°-30°	332.5	6.6
30°-40°	445.8	8.9
40°-50°	646.9	12.8
50°-60°	983.2	19.5
60°-70°	1214.3	24.1
70°-80°	903.0	17.9
80°-90°	168.4	3.3
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°	5034.7	100.0
0°-180°	5034.7	100.0

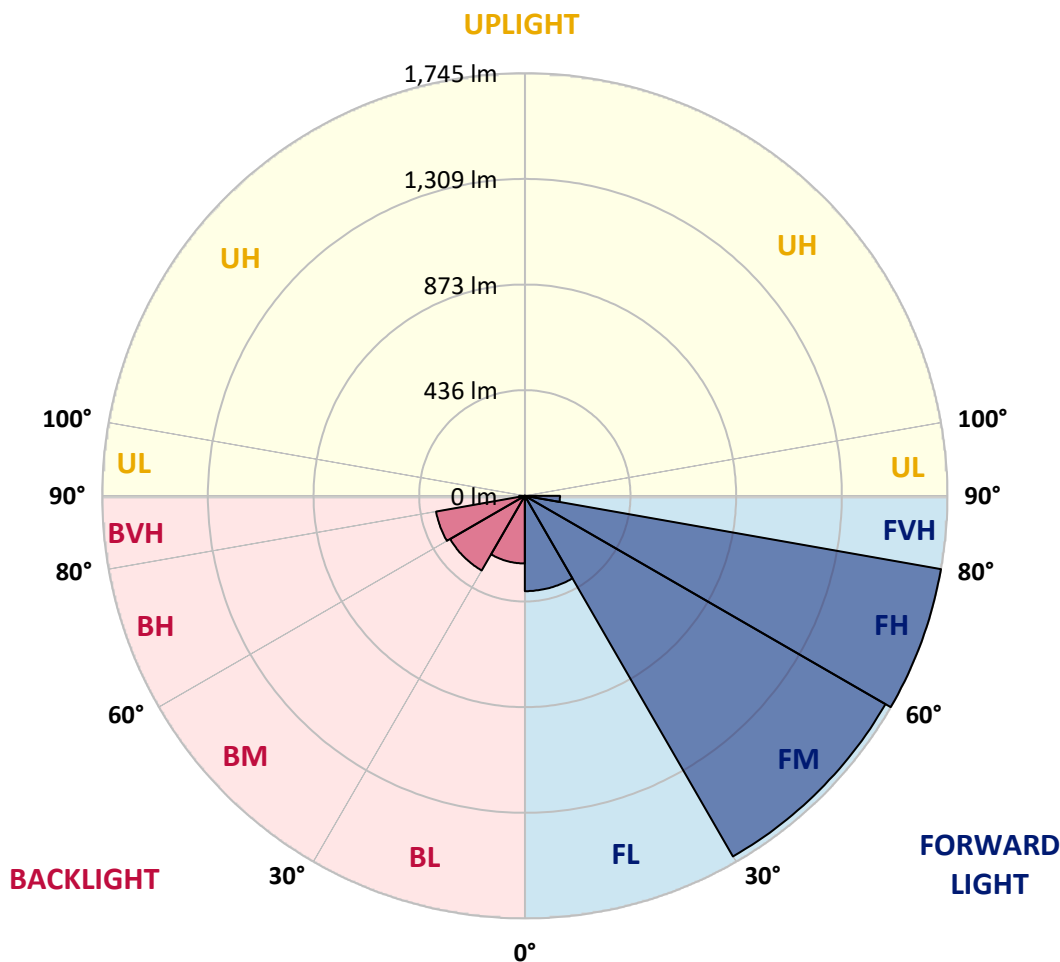


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.7	7.8			
FM (30°-60°)	1719.9	34.2			
FH (60°-80°)	1745.3	34.7			G1/1800
FVH (80°-90°)	145.2	2.9			G2/225
BL (0°-30°)	279.3	5.5	B1/500		
BM (30°-60°)	356.0	7.1	B1/1000		
BH (60°-80°)	372.0	7.4	B1/500		G1/500
BVH (80°-90°)	23.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1058.0	1063.6	1065.5	1069.2	1078.6	1086.1	1097.3	1102.9	1097.3	1104.8	1104.8
5°	985.0	977.5	996.2	1003.7	1014.9	1029.9	1056.1	1076.7	1071.1	1093.6	1112.3
7.5°	923.2	923.2	928.8	945.7	958.8	981.2	1009.3	1041.2	1050.5	1080.5	1108.6
10°	867.0	874.5	874.5	900.7	908.2	934.4	981.2	1020.6	1022.4	1073.0	1112.3
12.5°	837.0	833.3	852.0	859.5	882.0	908.2	945.7	994.3	996.2	1050.5	1104.8
15°	812.7	816.4	825.8	844.5	865.1	885.7	921.3	966.3	975.6	1039.3	1101.1
17.5°	814.6	816.4	816.4	829.6	846.4	870.7	904.5	956.9	962.5	1024.3	1095.5
20°	825.8	818.3	823.9	829.6	840.8	863.3	891.3	936.3	941.9	1022.4	1108.6
22.5°	850.2	844.5	842.7	840.8	838.9	852.0	887.6	925.1	930.7	1013.1	1114.2
25°	889.5	887.6	874.5	861.4	852.0	852.0	880.1	934.4	932.5	1013.1	1117.9
27.5°	936.3	936.3	934.4	910.1	882.0	867.0	885.7	930.7	928.8	1013.1	1127.3
30°	1000.0	1000.0	994.3	971.9	921.3	878.2	889.5	926.9	932.5	1005.6	1119.8
32.5°	1069.2	1067.4	1073.0	1052.4	1000.0	930.7	911.9	934.4	940.0	1013.1	1121.7
35°	1119.8	1131.0	1149.8	1131.0	1078.6	985.0	943.8	949.4	953.1	1014.9	1129.2
37.5°	1177.9	1191.0	1217.2	1232.2	1176.0	1067.4	994.3	973.7	973.7	1039.3	1131.0
40°	1262.1	1249.0	1294.0	1320.2	1297.7	1168.5	1073.0	1018.7	1020.6	1071.1	1155.4
42.5°	1323.9	1337.0	1383.8	1430.7	1402.6	1292.1	1159.1	1091.7	1091.7	1117.9	1192.8
45°	1393.2	1408.2	1473.7	1529.9	1550.5	1440.0	1277.1	1196.6	1192.8	1209.7	1260.2
47.5°	1470.0	1490.6	1565.5	1631.0	1685.3	1593.6	1428.8	1323.9	1322.0	1335.1	1372.6
50°	1558.0	1565.5	1627.3	1747.1	1855.7	1797.7	1614.2	1503.7	1494.3	1499.9	1550.5
52.5°	1584.2	1578.6	1649.7	1778.9	1977.4	2046.7	1867.0	1707.8	1704.0	1690.9	1756.5
55°	1488.7	1507.4	1576.7	1741.5	2076.7	2340.7	2144.1	1986.8	1953.1	1917.5	1996.2
57.5°	1297.7	1299.6	1378.2	1573.0	1999.9	2584.2	2614.1	2260.2	2262.1	2166.6	2256.5
60°	1009.3	1003.7	1065.5	1241.5	1780.8	2659.1	3127.2	2696.5	2677.8	2415.6	2498.0
62.5°	728.4	717.2	730.3	833.3	1331.4	2544.8	3630.9	3185.3	3106.6	2670.3	2734.0
65°	599.2	604.8	610.5	616.1	747.2	2099.2	3786.4	3983.0	3878.1	2968.0	2994.3
67.5°	496.2	500.0	524.3	558.0	554.3	1239.6	3606.6	4720.8	4681.4	3336.9	3219.0
70°	421.3	419.5	447.5	509.3	518.7	644.2	2855.7	4872.4	4956.7	3733.9	3473.6
72.5°	337.1	340.8	365.2	447.5	509.3	543.0	1644.1	4546.6	4544.7	4039.2	3336.9
75°	241.6	241.6	275.3	370.8	492.5	537.4	910.1	3690.9	3760.1	3795.7	2895.0
77.5°	159.2	166.7	192.9	277.1	462.5	526.2	576.8	2683.4	2769.5	2838.8	2215.3
80°	108.6	112.4	129.2	192.9	391.4	529.9	471.9	1805.2	1838.9	1567.3	898.8
82.5°	65.5	67.4	86.1	134.8	280.9	503.7	443.8	996.2	975.6	473.8	258.4
85°	35.6	37.5	54.3	89.9	185.4	440.1	436.3	488.7	455.0	174.1	108.6
87.5°	13.1	13.1	24.3	44.9	106.7	301.5	380.1	290.2	271.5	88.0	50.6
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°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1114.2	1114.2	1114.2	1114.2	1112.3	1104.8	1110.4	1108.6	1097.3	1099.2	1091.7
5°	1110.4	1119.8	1114.2	1106.7	1097.3	1074.9	1067.4	1061.8	1046.8	1041.2	1046.8
7.5°	1119.8	1112.3	1108.6	1095.5	1058.0	1037.4	1011.2	979.4	956.9	951.3	956.9
10°	1117.9	1117.9	1101.1	1063.6	1028.0	968.1	934.4	878.2	846.4	837.0	838.9
12.5°	1110.4	1116.1	1089.8	1029.9	962.5	889.5	827.7	767.8	711.6	689.1	685.4
15°	1117.9	1112.3	1065.5	988.7	895.1	794.0	704.1	616.1	563.6	529.9	522.4
17.5°	1106.7	1101.1	1033.7	932.5	807.1	677.9	565.5	470.0	417.6	404.5	404.5
20°	1119.8	1084.2	996.2	865.1	715.3	550.5	423.2	352.0	338.9	338.9	342.7
22.5°	1117.9	1080.5	964.4	799.6	604.8	415.7	314.6	294.0	295.9	310.8	309.0
25°	1106.7	1073.0	919.4	726.6	488.7	312.7	260.3	254.7	267.8	284.6	282.8
27.5°	1104.8	1052.4	878.2	640.4	372.6	247.2	226.6	226.6	239.7	254.7	252.8
30°	1093.6	1035.5	827.7	543.0	280.9	215.3	207.9	207.9	213.5	221.0	221.0
32.5°	1091.7	1013.1	771.5	441.9	224.7	194.7	191.0	192.9	192.9	196.6	194.7
35°	1076.7	983.1	713.5	342.7	194.7	183.5	179.8	177.9	177.9	176.0	176.0
37.5°	1071.1	964.4	653.5	265.9	181.6	174.1	170.4	164.8	162.9	162.9	161.0
40°	1076.7	945.7	595.5	215.3	170.4	166.7	161.0	153.6	151.7	151.7	151.7
42.5°	1097.3	943.8	535.6	187.3	164.8	159.2	151.7	144.2	142.3	144.2	142.3
45°	1144.1	958.8	477.5	174.1	157.3	151.7	142.3	136.7	134.8	136.7	136.7
47.5°	1220.9	1000.0	425.1	166.7	151.7	144.2	134.8	129.2	129.2	129.2	129.2
50°	1348.3	1078.6	374.5	161.0	147.9	138.6	129.2	121.7	119.8	119.8	121.7
52.5°	1539.3	1213.4	333.3	157.3	142.3	131.1	121.7	116.1	112.4	110.5	112.4
55°	1769.6	1410.1	320.2	153.6	134.8	125.5	116.1	108.6	104.9	104.9	103.0
57.5°	2016.8	1627.3	342.7	149.8	129.2	118.0	108.6	101.1	97.4	95.5	95.5
60°	2284.5	1883.8	425.1	147.9	123.6	110.5	101.1	95.5	89.9	88.0	88.0
62.5°	2528.0	2116.0	573.0	146.1	119.8	103.0	93.6	86.1	82.4	80.5	80.5
65°	2805.1	2374.4	717.2	153.6	118.0	97.4	86.1	78.6	74.9	73.0	73.0
67.5°	3046.7	2599.1	801.5	172.3	123.6	89.9	76.8	71.2	69.3	67.4	67.4
70°	3222.7	2668.4	537.4	189.1	133.0	84.3	69.3	65.5	61.8	61.8	61.8
72.5°	2986.8	2381.9	318.3	177.9	125.5	78.6	61.8	58.0	56.2	56.2	54.3
75°	2554.2	2028.0	245.3	144.2	101.1	67.4	54.3	50.6	48.7	48.7	46.8
77.5°	1885.7	1453.1	181.6	114.2	78.6	54.3	46.8	44.9	43.1	41.2	41.2
80°	737.8	636.7	123.6	84.3	58.0	43.1	39.3	37.5	35.6	33.7	33.7
82.5°	228.5	192.9	71.2	56.2	41.2	33.7	31.8	30.0	28.1	26.2	26.2
85°	99.2	95.5	46.8	35.6	28.1	22.5	22.5	20.6	18.7	16.9	16.9
87.5°	48.7	46.8	26.2	16.9	15.0	11.2	11.2	9.4	7.5	7.5	7.5
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)