

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: P674951

Luminaire Tested: **CCW-SA-2A-727-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674951  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-727-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

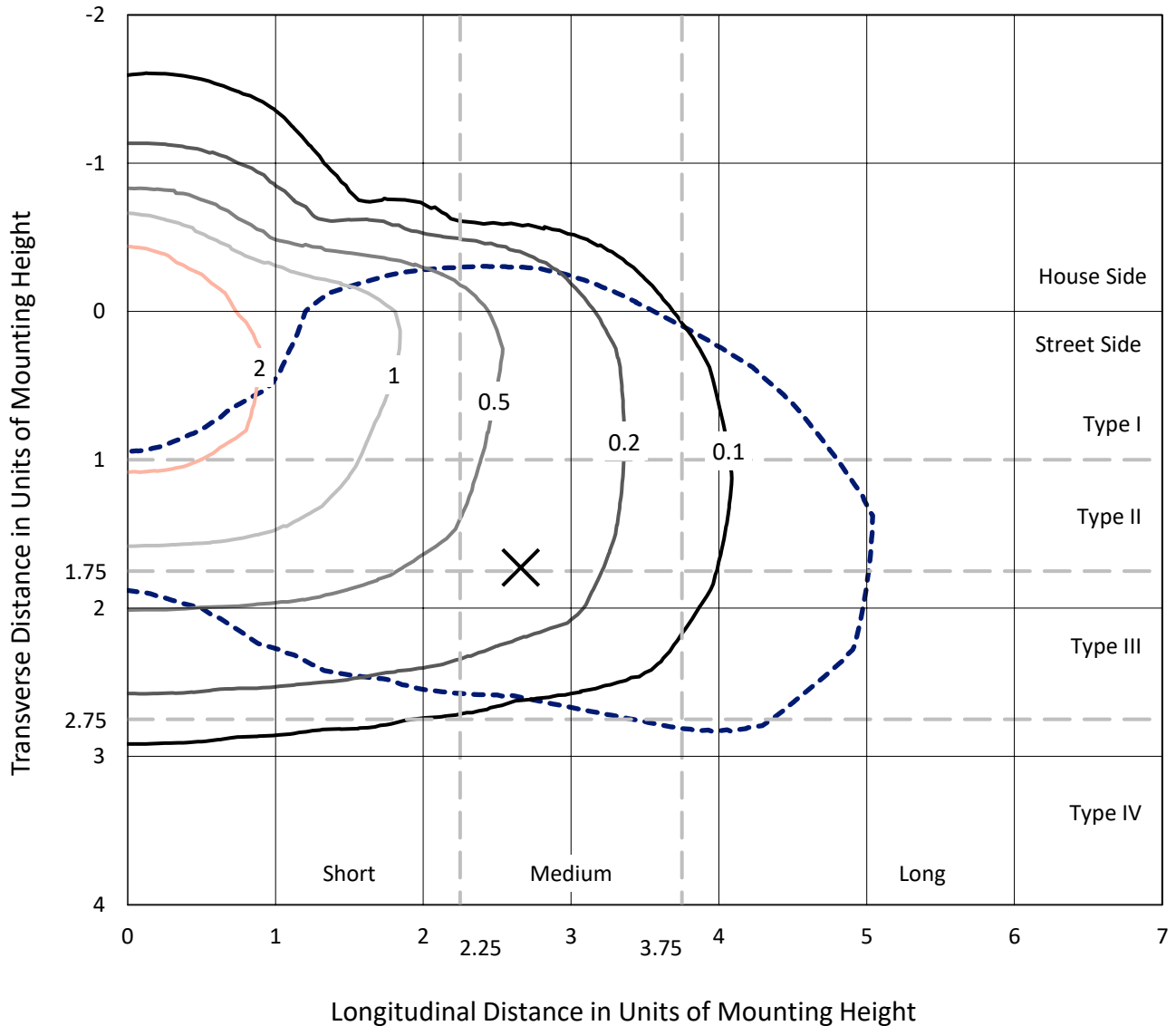
Lumens per Lamp: N/A  
Luminaire Lumens: 4623.5 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

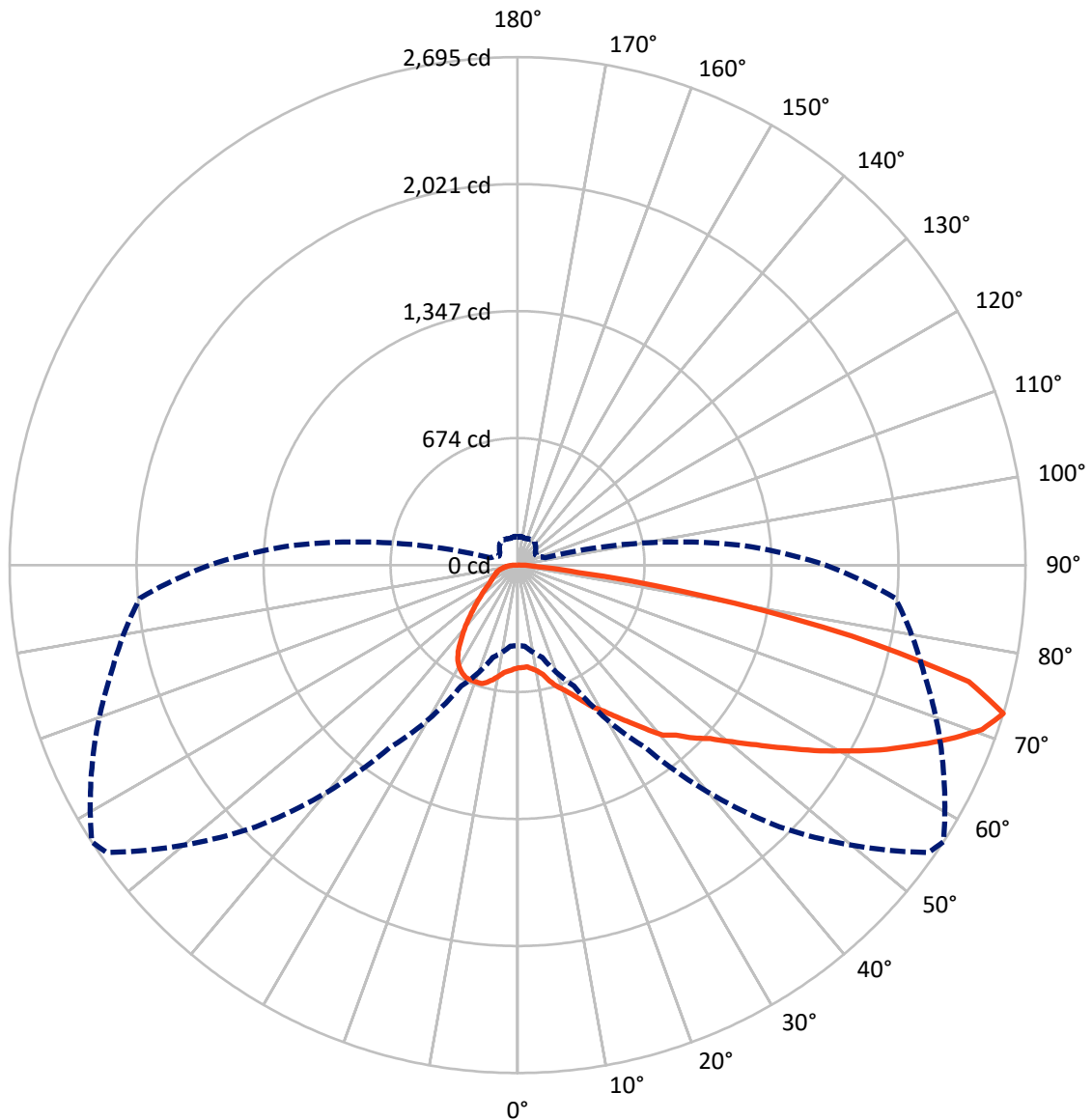
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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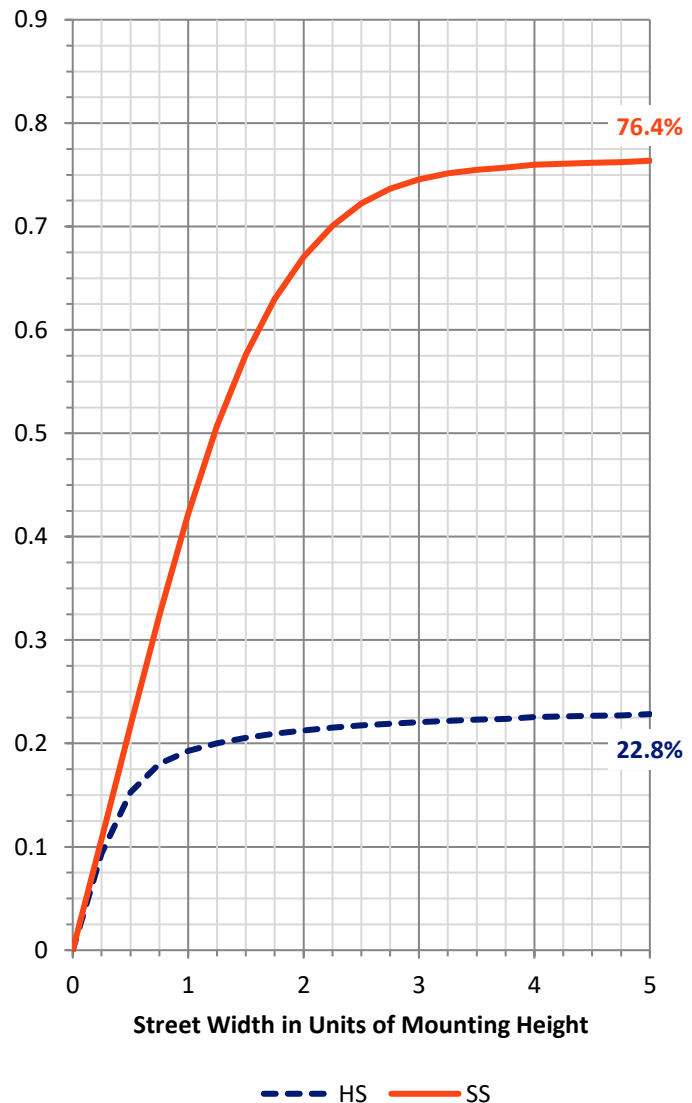
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1079.7	0.0	1079.7
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	3543.7	0.0	3543.7
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	4623.5	0.0	4623.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	1.2
10°-20°	182.6	3.9
20°-30°	333.7	7.2
30°-40°	489.6	10.6
40°-50°	674.1	14.6
50°-60°	924.4	20.0
60°-70°	1114.4	24.1
70°-80°	742.3	16.1
80°-90°	108.1	2.3
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°	4623.5	100.0
0°-180°	4623.5	100.0



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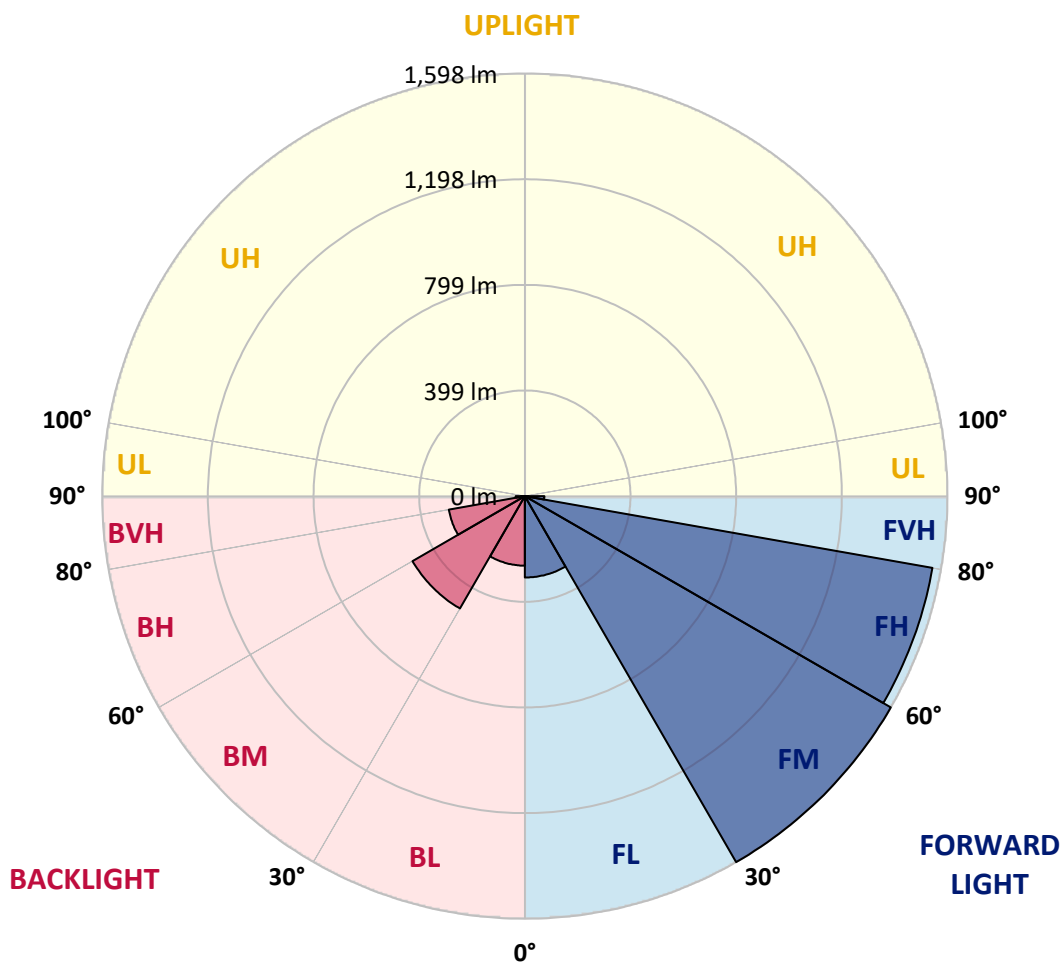
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.6	6.7			
FM (30°-60°)	1597.8	34.6			
FH (60°-80°)	1564.7	33.8			G1/1800
FVH (80°-90°)	73.6	1.6			G1/100
BL (0°-30°)	262.9	5.7	B1/500		
BM (30°-60°)	490.4	10.6	B1/1000		
BH (60°-80°)	291.9	6.3	B1/500		G1/500
BVH (80°-90°)	34.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7
2.5°	535.6	537.3	540.7	539.0	539.0	533.9	542.3	544.0	540.7	542.3	545.7
5°	535.6	539.0	544.0	540.7	542.3	540.7	537.3	542.3	542.3	544.0	549.1
7.5°	564.2	562.6	562.6	557.5	555.8	554.1	555.8	555.8	552.5	554.1	554.1
10°	596.2	596.2	592.9	592.9	589.5	581.1	572.7	571.0	565.9	567.6	567.6
12.5°	629.9	633.3	636.7	626.6	623.2	609.7	604.7	594.6	594.6	591.2	589.5
15°	672.0	667.0	670.4	667.0	658.6	645.1	636.7	638.4	626.6	623.2	618.1
17.5°	709.1	710.8	705.7	702.4	687.2	677.1	678.8	677.1	661.9	656.9	648.5
20°	752.9	751.2	751.2	741.1	727.6	714.1	709.1	707.4	710.8	700.7	680.5
22.5°	798.4	791.6	791.6	783.2	764.7	756.3	752.9	746.1	749.5	741.1	710.8
25°	835.4	835.4	847.2	830.4	820.3	803.4	796.7	798.4	800.0	783.2	747.8
27.5°	884.3	875.8	887.6	879.2	874.2	855.6	847.2	852.3	848.9	830.4	781.5
30°	946.6	948.3	941.5	929.7	923.0	909.5	904.5	899.4	904.5	880.9	818.6
32.5°	1024.1	1029.1	1012.3	998.8	987.0	973.5	963.4	958.4	963.4	928.1	847.2
35°	1113.3	1118.4	1104.9	1089.7	1076.3	1042.6	1034.2	1025.7	1007.2	949.9	874.2
37.5°	1195.9	1189.1	1185.7	1185.7	1160.5	1111.6	1106.6	1101.5	1066.2	993.7	911.2
40°	1251.4	1259.9	1256.5	1253.1	1249.8	1204.3	1194.2	1185.7	1126.8	1059.4	963.4
42.5°	1313.8	1308.7	1322.2	1327.2	1315.4	1302.0	1261.5	1232.9	1180.7	1126.8	1040.9
45°	1387.9	1384.5	1389.5	1408.1	1391.2	1396.3	1328.9	1308.7	1243.0	1211.0	1138.6
47.5°	1453.6	1462.0	1487.2	1492.3	1478.8	1502.4	1408.1	1376.1	1334.0	1308.7	1239.6
50°	1482.2	1492.3	1549.6	1584.9	1586.6	1623.7	1487.2	1473.8	1416.5	1426.6	1366.0
52.5°	1458.6	1490.6	1559.7	1652.3	1709.6	1746.6	1591.7	1584.9	1532.7	1564.7	1504.1
55°	1480.5	1510.8	1556.3	1686.0	1830.8	1839.3	1736.5	1711.3	1659.0	1702.8	1647.2
57.5°	1490.6	1473.8	1559.7	1723.0	1920.1	1942.0	1874.6	1856.1	1815.7	1857.8	1825.8
60°	1411.4	1431.7	1512.5	1712.9	1925.2	2051.5	2029.6	2002.6	1965.6	2004.3	1985.8
62.5°	1322.2	1335.7	1423.2	1652.3	1953.8	2130.6	2179.5	2159.3	2107.1	2140.7	2172.7
65°	1209.3	1211.0	1308.7	1544.5	1898.2	2176.1	2310.9	2309.2	2272.1	2263.7	2314.2
67.5°	1071.2	1084.7	1162.2	1430.0	1822.4	2226.6	2440.6	2465.8	2391.7	2326.0	2344.5
70°	821.9	835.4	909.5	1172.3	1667.5	2211.5	2600.6	2614.0	2469.2	2302.4	2255.3
72.5°	427.8	431.2	507.0	707.4	1182.4	1963.9	2659.5	2694.9	2489.4	2233.4	2011.1
75°	141.5	141.5	173.5	269.5	557.5	1256.5	2408.6	2472.6	2390.0	2061.6	1645.6
77.5°	84.2	85.9	102.7	134.7	222.3	501.9	1697.8	1810.6	1955.5	1753.4	1202.6
80°	60.6	62.3	77.5	92.6	133.1	161.7	852.3	1008.9	1200.9	1128.5	641.7
82.5°	45.5	45.5	60.6	69.1	91.0	96.0	237.5	325.1	518.8	404.2	176.9
85°	47.2	47.2	47.2	48.8	62.3	55.6	99.4	106.1	151.6	133.1	48.8
87.5°	16.8	18.5	47.2	32.0	32.0	23.6	38.7	42.1	53.9	55.6	18.5
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°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7
2.5°	547.4	547.4	549.1	549.1	552.5	555.8	560.9	557.5	557.5	559.2	557.5
5°	545.7	547.4	552.5	560.9	564.2	565.9	576.0	576.0	576.0	579.4	579.4
7.5°	552.5	555.8	564.2	572.7	574.3	579.4	592.9	596.2	604.7	608.0	609.7
10°	569.3	574.3	581.1	591.2	597.9	604.7	614.8	626.6	624.9	635.0	636.7
12.5°	594.6	592.9	604.7	614.8	621.5	631.6	635.0	635.0	635.0	635.0	638.4
15°	614.8	618.1	628.2	635.0	643.4	641.7	635.0	628.2	629.9	628.2	628.2
17.5°	645.1	645.1	653.5	655.2	658.6	641.7	631.6	631.6	636.7	636.7	633.3
20°	675.4	673.7	677.1	675.4	653.5	633.3	631.6	633.3	635.0	633.3	631.6
22.5°	704.0	700.7	695.6	688.9	650.1	631.6	628.2	619.8	611.4	611.4	606.3
25°	729.3	725.9	712.5	692.2	648.5	621.5	604.7	584.5	574.3	569.3	576.0
27.5°	752.9	746.1	727.6	692.2	633.3	594.6	562.6	537.3	528.9	522.1	528.9
30°	784.9	773.1	747.8	687.2	609.7	552.5	508.7	478.3	469.9	459.8	463.2
32.5°	813.5	786.6	764.7	672.0	579.4	505.3	454.8	424.4	409.3	400.9	407.6
35°	843.8	816.9	771.4	648.5	532.2	448.0	397.5	368.9	357.1	345.3	345.3
37.5°	874.2	859.0	781.5	604.7	475.0	394.1	348.7	326.8	306.5	284.6	284.6
40°	938.2	917.9	793.3	554.1	417.7	341.9	309.9	281.3	261.1	230.7	229.1
42.5°	1005.5	961.7	793.3	493.5	367.2	304.9	274.5	244.2	207.2	188.6	190.3
45°	1091.4	1040.9	771.4	439.6	316.6	274.5	240.9	202.1	185.3	173.5	173.5
47.5°	1199.2	1120.1	744.5	380.7	276.2	247.6	205.5	181.9	170.1	160.0	158.3
50°	1327.2	1192.5	710.8	330.1	242.5	222.3	187.0	168.4	158.3	151.6	151.6
52.5°	1462.0	1298.6	687.2	284.6	215.6	188.6	173.5	161.7	153.3	148.2	146.5
55°	1598.4	1404.7	670.4	235.8	190.3	173.5	170.1	160.0	156.6	151.6	148.2
57.5°	1751.7	1492.3	667.0	202.1	170.1	166.7	173.5	165.1	160.0	155.0	149.9
60°	1916.7	1610.2	636.7	175.2	160.0	163.4	168.4	160.0	156.6	151.6	148.2
62.5°	2080.1	1697.8	554.1	155.0	149.9	153.3	160.0	153.3	148.2	149.9	151.6
65°	2147.5	1704.5	429.5	139.8	138.1	139.8	149.9	148.2	143.2	153.3	153.3
67.5°	2080.1	1643.9	303.2	126.3	126.3	134.7	151.6	155.0	149.9	163.4	161.7
70°	1926.8	1494.0	205.5	117.9	121.3	143.2	156.6	153.3	146.5	163.4	160.0
72.5°	1635.5	1195.9	149.9	109.5	114.5	136.4	155.0	151.6	146.5	153.3	146.5
75°	1227.9	850.6	117.9	99.4	101.1	123.0	160.0	151.6	138.1	134.7	129.7
77.5°	820.3	525.5	91.0	87.6	87.6	107.8	153.3	141.5	124.6	119.6	117.9
80°	390.8	210.5	72.4	74.1	75.8	92.6	139.8	126.3	112.8	106.1	106.1
82.5°	124.6	79.2	60.6	60.6	60.6	75.8	116.2	106.1	97.7	92.6	84.2
85°	43.8	43.8	52.2	53.9	48.8	55.6	96.0	91.0	80.8	67.4	65.7
87.5°	16.8	25.3	35.4	42.1	30.3	38.7	69.1	64.0	59.0	43.8	42.1
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)