

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: P677146

Luminaire Tested: **CCW-SA-2C-740-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677146  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-740-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

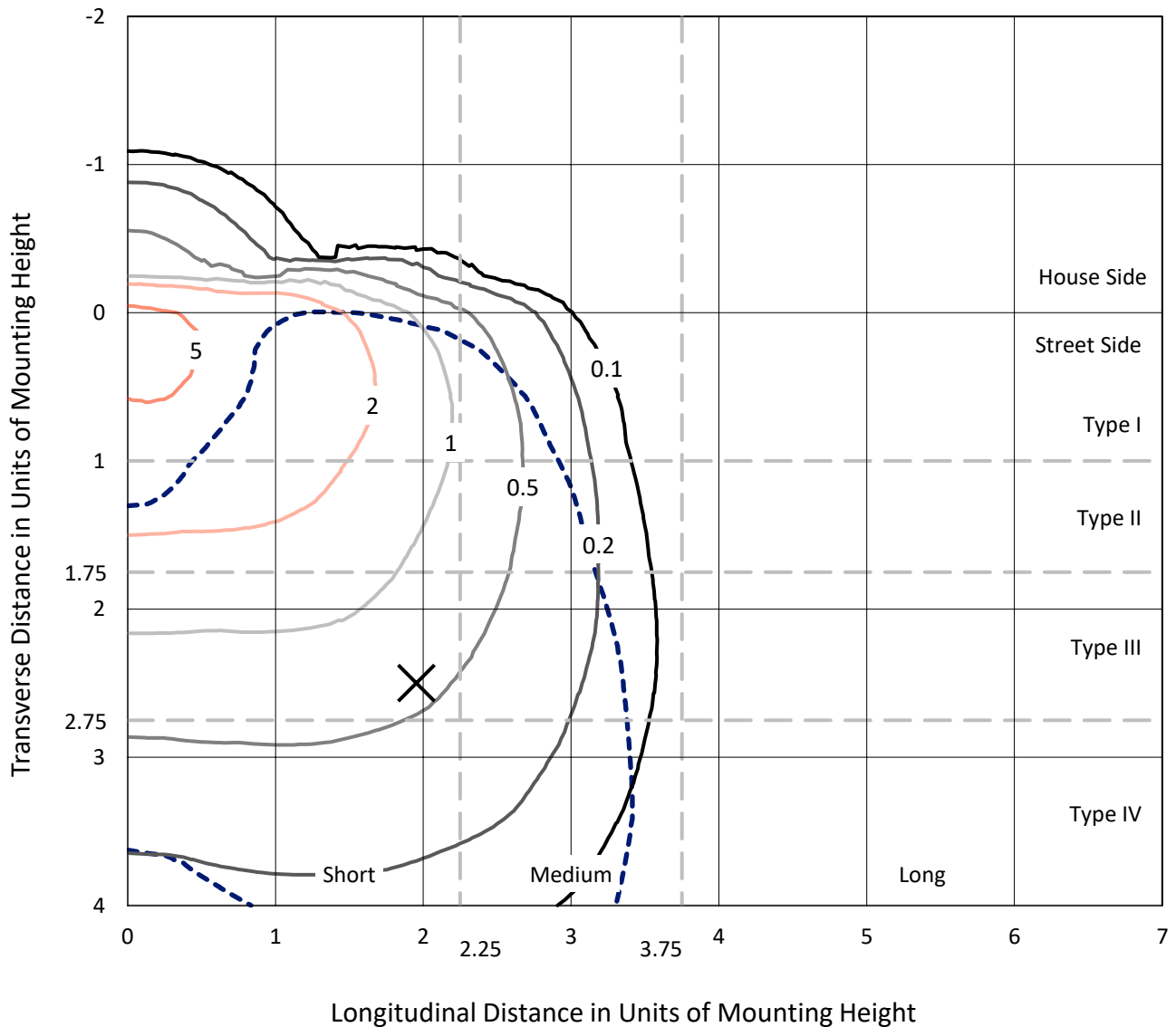
Lumens per Lamp: N/A  
Luminaire Lumens: 7468.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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

REPORT NUMBER: P677146  
 CATALOG NUMBER: CCW-SA-2C-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

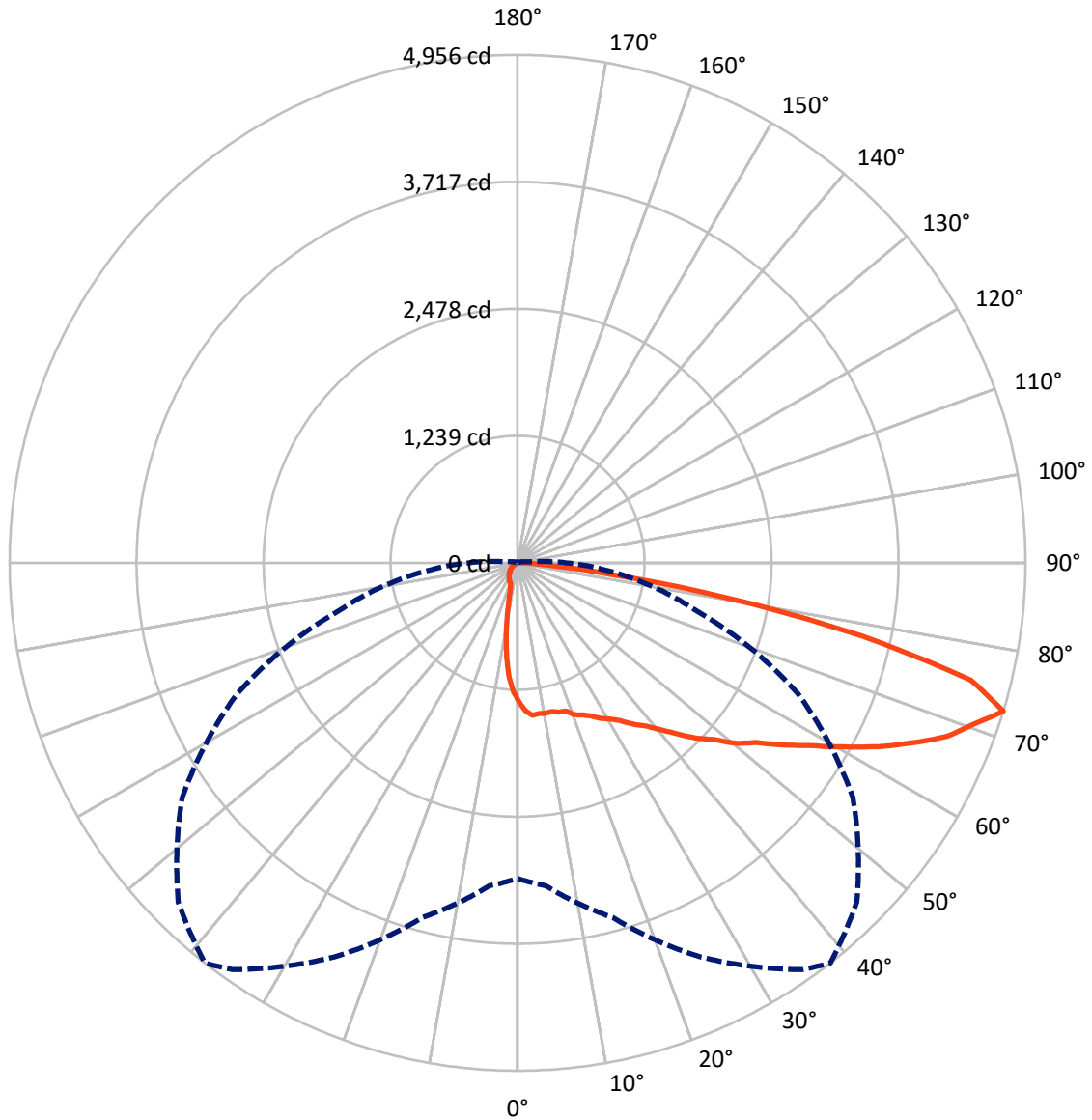
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677146  
CATALOG NUMBER: CCW-SA-2C-740-U-SL4-HSS

### 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	625.5	0.0	625.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6843.0	0.0	6843.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7468.5	0.0	7468.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	1.6
10°-20°	289.4	3.9
20°-30°	464.0	6.2
30°-40°	700.6	9.4
40°-50°	1066.2	14.3
50°-60°	1501.1	20.1
60°-70°	1833.6	24.6
70°-80°	1331.4	17.8
80°-90°	164.0	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°	7468.5	100.0
0°-180°	7468.5	100.0

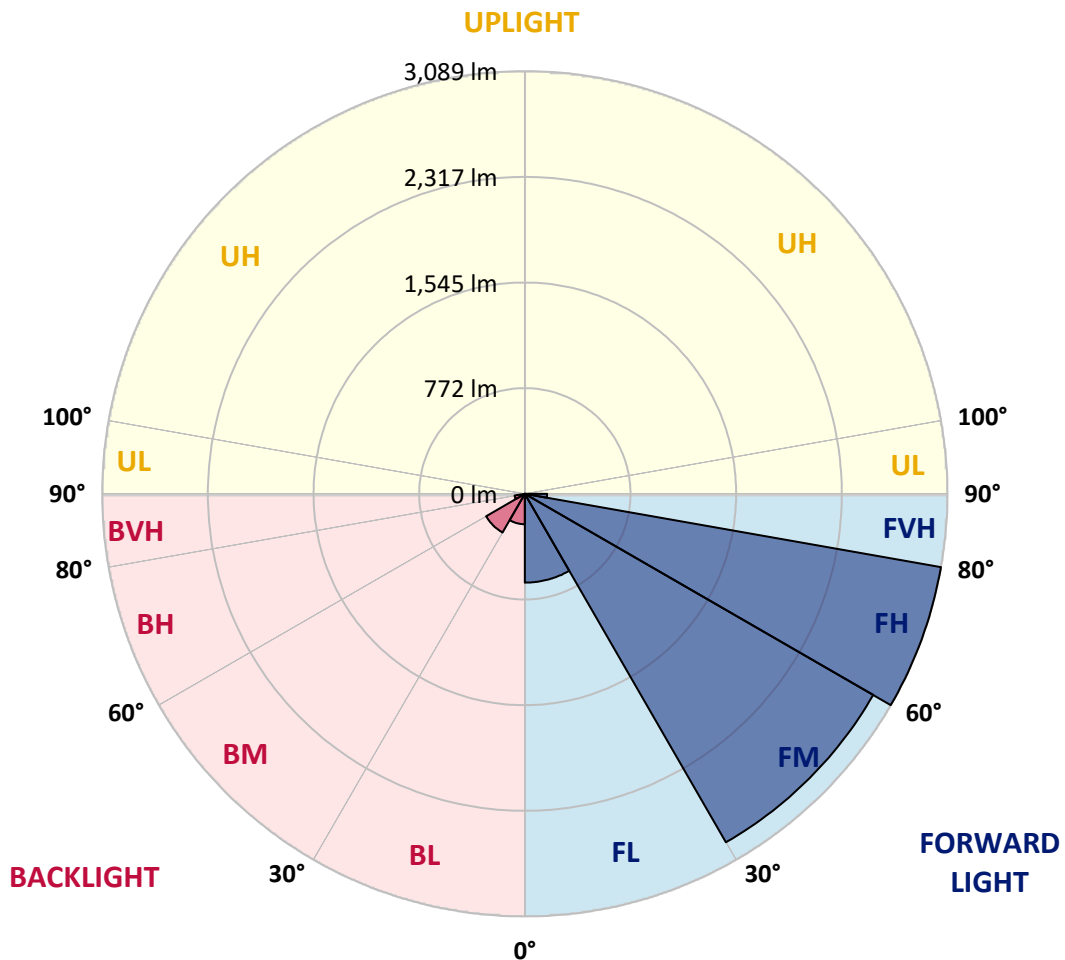


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.6	8.7			
FM (30°-60°)	2941.1	39.4			
FH (60°-80°)	3089.2	41.4			G2/5000
FVH (80°-90°)	163.1	2.2			G2/225
BL (0°-30°)	222.1	3.0	B1/500		
BM (30°-60°)	326.7	4.4	B1/1000		
BH (60°-80°)	75.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2**  
 Type IV Short





REPORT NUMBER: P677146

CATALOG NUMBER: CCW-SA-2C-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1483.7	1483.7	1497.8	1483.7	1478.5	1445.2	1446.9	1429.4	1411.9	1387.4	1364.6
5°	1501.3	1513.5	1522.3	1510.0	1490.7	1494.2	1506.5	1473.2	1425.9	1396.1	1345.3
7.5°	1494.2	1520.5	1513.5	1506.5	1494.2	1485.5	1468.0	1454.0	1431.2	1403.2	1343.6
10°	1489.0	1497.8	1499.5	1494.2	1468.0	1492.5	1473.2	1450.5	1422.4	1389.1	1315.6
12.5°	1469.7	1469.7	1485.5	1473.2	1476.7	1489.0	1480.2	1475.0	1445.2	1417.2	1352.4
15°	1448.7	1455.7	1480.2	1499.5	1517.0	1511.8	1506.5	1490.7	1464.5	1432.9	1364.6
17.5°	1454.0	1457.5	1496.0	1531.0	1522.3	1518.8	1546.8	1513.5	1487.2	1452.2	1375.1
20°	1473.2	1483.7	1527.5	1573.1	1581.8	1581.8	1571.3	1552.1	1515.3	1468.0	1394.4
22.5°	1492.5	1496.0	1567.8	1625.6	1634.4	1611.6	1620.4	1564.3	1529.3	1503.0	1413.7
25°	1566.1	1559.1	1636.1	1681.7	1676.4	1653.7	1644.9	1595.8	1581.8	1534.5	1455.7
27.5°	1665.9	1636.1	1711.5	1739.5	1711.5	1718.5	1693.9	1641.4	1611.6	1583.6	1475.0
30°	1727.2	1744.7	1785.0	1813.1	1765.8	1767.5	1755.3	1697.5	1651.9	1658.9	1539.8
32.5°	1821.8	1834.1	1863.9	1876.1	1839.3	1835.8	1823.6	1778.0	1744.7	1737.7	1627.4
35°	1923.4	1946.2	1948.0	1951.5	1918.2	1932.2	1914.7	1849.9	1867.4	1879.6	1732.5
37.5°	2023.3	2002.3	2037.3	2053.1	2016.3	2016.3	2021.5	1977.7	2009.3	2046.0	1881.4
40°	2061.8	2070.6	2131.9	2119.6	2163.4	2137.1	2156.4	2145.9	2172.2	2256.3	2091.6
42.5°	2102.1	2112.6	2194.9	2217.7	2270.3	2279.0	2307.1	2308.8	2385.9	2524.3	2293.0
45°	2179.2	2161.7	2273.8	2329.8	2415.7	2440.2	2473.5	2501.5	2622.4	2785.3	2522.5
47.5°	2249.3	2224.7	2352.6	2464.7	2569.8	2575.1	2666.2	2696.0	2839.6	3025.3	2750.3
50°	2347.4	2356.1	2410.4	2603.1	2710.0	2771.3	2834.3	2932.4	3091.8	3289.8	2914.9
52.5°	2449.0	2440.2	2531.3	2720.5	2888.6	2911.4	3053.3	3163.7	3337.1	3486.0	2988.5
55°	2573.3	2583.8	2618.9	2867.6	3081.3	3135.6	3295.1	3410.7	3599.9	3570.1	3013.0
57.5°	2697.7	2687.2	2766.0	3032.3	3323.1	3363.4	3575.3	3643.7	3771.5	3626.1	2951.7
60°	2820.3	2839.6	2872.9	3218.0	3587.6	3647.2	3815.3	3850.4	3878.4	3652.4	2904.4
62.5°	2960.5	2914.9	3018.3	3414.2	3825.8	3950.2	4083.3	3945.0	3920.4	3605.1	2795.8
65°	3030.5	3044.6	3179.4	3638.4	4142.9	4234.0	4251.5	4072.8	3946.7	3500.0	2694.2
67.5°	3139.1	3158.4	3330.1	3867.9	4468.7	4519.5	4456.5	4188.4	3923.9	3363.4	2328.1
70°	3153.2	3200.5	3531.5	4107.9	4673.7	4717.5	4668.4	4265.5	3740.0	2825.6	1723.7
72.5°	3079.6	3163.7	3580.6	4244.5	4845.4	4955.7	4680.7	3994.0	3014.8	1802.6	882.9
75°	2326.3	2396.4	3277.5	4041.3	4540.5	4566.8	4109.6	3048.1	1716.7	614.9	226.0
77.5°	1205.2	1326.1	2187.9	3088.3	3459.7	3431.7	2860.6	1795.5	590.3	161.2	91.1
80°	691.9	721.7	956.5	1734.2	2175.7	2068.8	1581.8	774.3	259.3	80.6	59.6
82.5°	341.6	383.6	515.0	776.0	1087.8	895.1	593.8	464.2	145.4	43.8	52.6
85°	73.6	77.1	262.8	371.4	441.4	290.8	203.2	390.6	52.6	26.3	50.8
87.5°	52.6	50.8	73.6	166.4	122.6	75.3	120.9	205.0	12.3	12.3	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677146

CATALOG NUMBER: CCW-SA-2C-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1350.6	1334.8	1317.3	1284.0	1275.3	1270.0	1240.2	1238.5	1233.2	1221.0	1215.7
5°	1313.8	1287.5	1254.3	1219.2	1191.2	1140.4	1079.1	1047.5	1009.0	1010.8	998.5
7.5°	1308.6	1259.5	1212.2	1138.6	1049.3	954.7	860.1	798.8	755.0	728.7	734.0
10°	1284.0	1247.2	1170.2	1033.5	889.9	746.2	625.4	534.3	481.7	441.4	453.7
12.5°	1294.5	1222.7	1114.1	931.9	727.0	550.1	399.4	311.8	273.3	259.3	262.8
15°	1287.5	1222.7	1080.8	821.6	571.1	373.1	259.3	231.2	224.2	224.2	220.7
17.5°	1308.6	1236.7	1024.8	713.0	409.9	248.7	222.5	217.2	212.0	212.0	212.0
20°	1338.3	1243.7	986.2	592.1	289.0	219.0	208.5	205.0	203.2	203.2	201.5
22.5°	1340.1	1236.7	914.4	459.0	222.5	206.7	197.9	196.2	196.2	192.7	192.7
25°	1350.6	1243.7	837.3	345.1	206.7	194.4	187.4	185.7	187.4	185.7	183.9
27.5°	1376.9	1256.0	760.3	252.3	194.4	183.9	178.7	176.9	176.9	176.9	173.4
30°	1410.2	1256.0	674.4	208.5	183.9	173.4	168.2	166.4	164.7	164.7	164.7
32.5°	1480.2	1296.3	569.3	185.7	169.9	161.2	155.9	155.9	154.2	154.2	152.4
35°	1567.8	1324.3	462.5	171.7	157.7	148.9	143.6	143.6	141.9	141.9	140.1
37.5°	1676.4	1394.4	353.9	161.2	145.4	136.6	131.4	131.4	131.4	129.6	129.6
40°	1830.6	1466.2	262.8	147.1	133.1	124.4	120.9	119.1	117.4	117.4	113.9
42.5°	1995.2	1576.6	196.2	136.6	122.6	115.6	110.4	105.1	105.1	99.9	99.9
45°	2173.9	1672.9	159.4	124.4	112.1	103.4	98.1	94.6	89.3	85.8	85.8
47.5°	2349.1	1732.5	140.1	110.4	101.6	94.6	89.3	82.3	75.3	73.6	71.8
50°	2491.0	1750.0	124.4	99.9	92.8	85.8	78.8	70.1	63.1	59.6	57.8
52.5°	2491.0	1653.7	112.1	89.3	84.1	77.1	68.3	57.8	49.0	45.5	43.8
55°	2491.0	1501.3	99.9	82.3	75.3	70.1	57.8	47.3	38.5	33.3	31.5
57.5°	2454.2	1317.3	89.3	73.6	66.6	59.6	49.0	36.8	28.0	22.8	22.8
60°	2352.6	1124.6	77.1	64.8	57.8	49.0	38.5	26.3	17.5	12.3	12.3
62.5°	2223.0	895.1	66.6	54.3	47.3	40.3	29.8	17.5	7.0	3.5	3.5
65°	1997.0	660.4	57.8	45.5	36.8	29.8	19.3	7.0	0.0	0.0	0.0
67.5°	1648.4	441.4	45.5	36.8	31.5	21.0	12.3	1.8	0.0	0.0	0.0
70°	1159.7	250.5	35.0	26.3	22.8	14.0	3.5	0.0	0.0	0.0	0.0
72.5°	476.5	110.4	24.5	19.3	15.8	7.0	0.0	0.0	0.0	0.0	0.0
75°	129.6	49.0	15.8	10.5	8.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	75.3	33.3	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.6	15.8	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.6	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	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)