

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: P677143

Luminaire Tested: **CCW-SA-1F-740-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677143  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-740-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

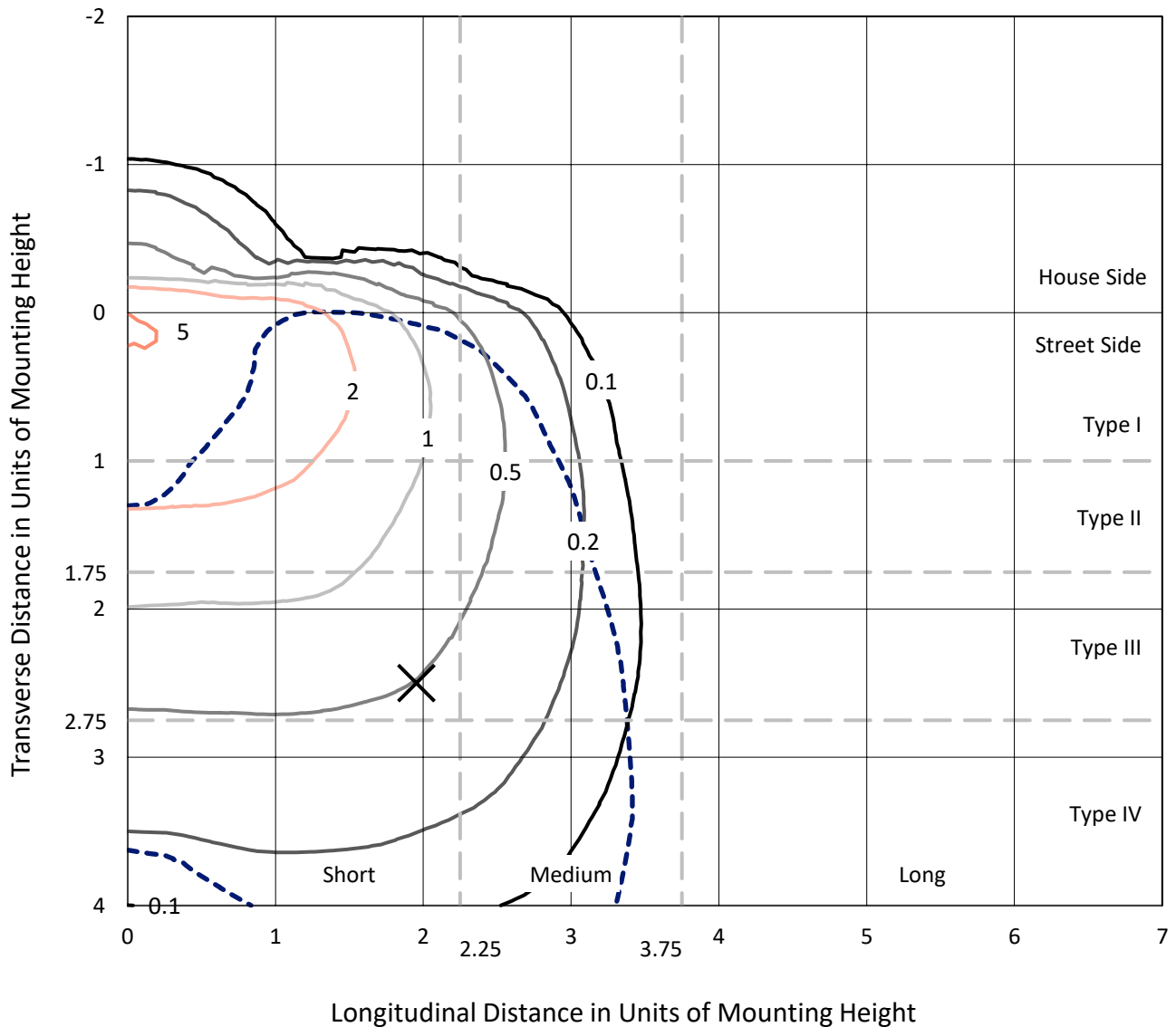
Lumens per Lamp: N/A  
Luminaire Lumens: 6193.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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: P677143  
 CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

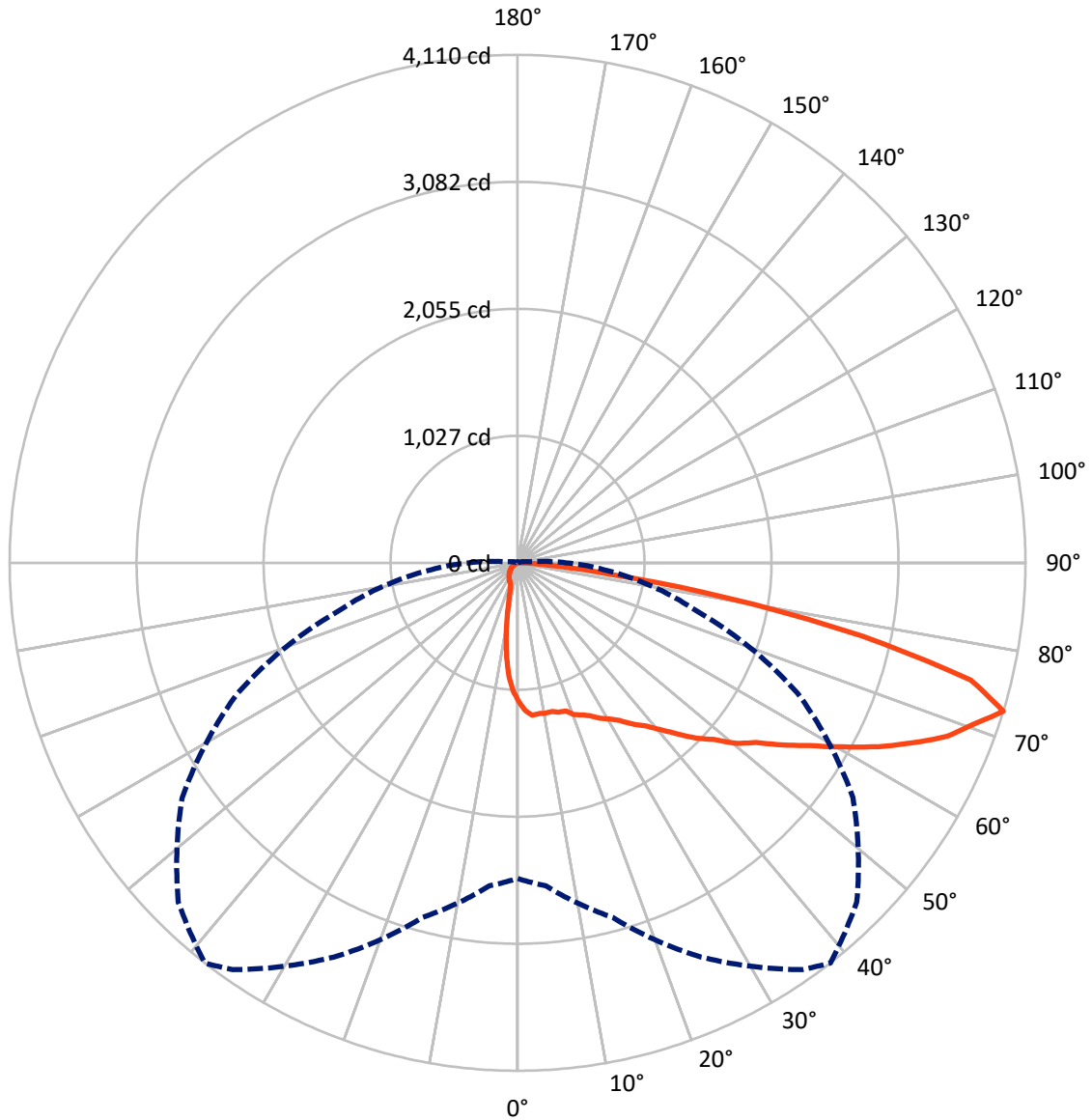
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677143  
CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677143  
 CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	518.7	0.0	518.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5674.6	0.0	5674.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6193.3	0.0	6193.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.6
10°-20°	240.0	3.9
20°-30°	384.8	6.2
30°-40°	580.9	9.4
40°-50°	884.2	14.3
50°-60°	1244.8	20.1
60°-70°	1520.5	24.6
70°-80°	1104.1	17.8
80°-90°	136.0	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°	6193.3	100.0
0°-180°	6193.3	100.0

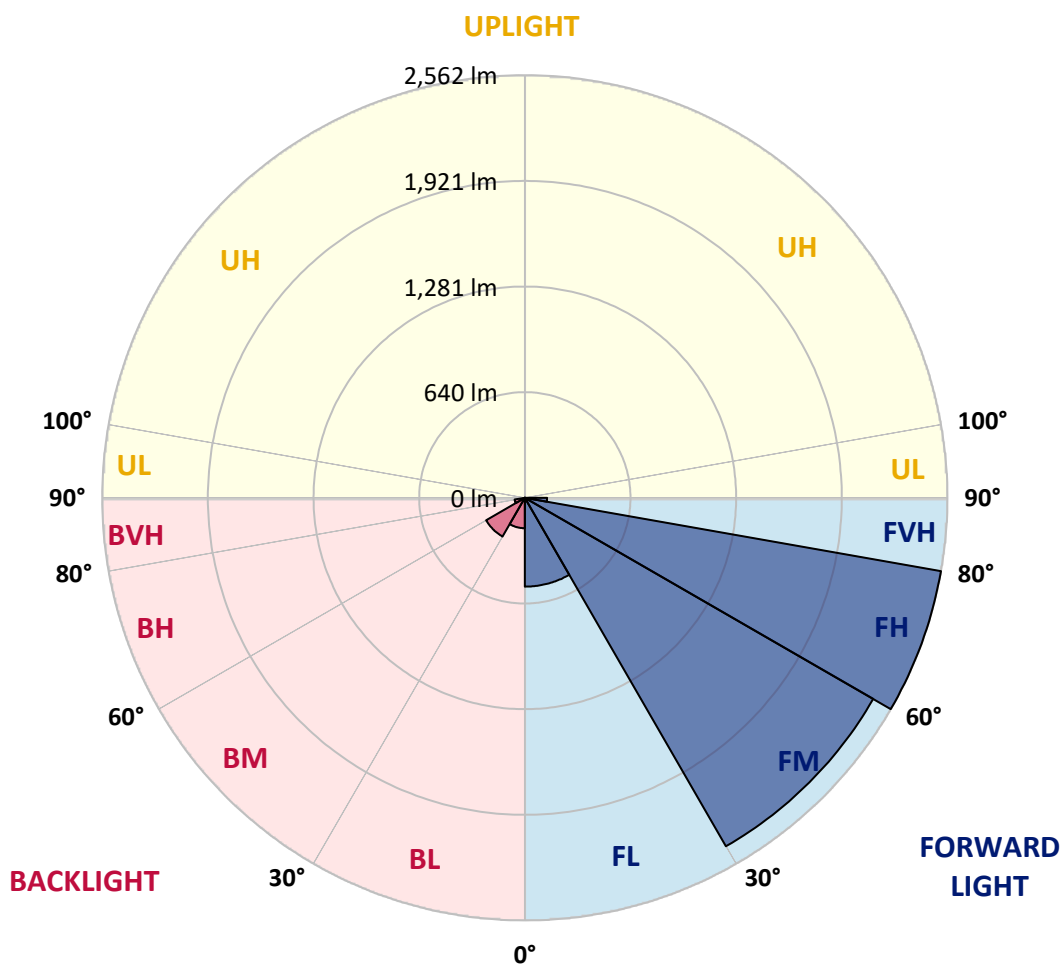


REPORT NUMBER: P677143  
 CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.7	8.7			
FM (30°-60°)	2438.9	39.4			
FH (60°-80°)	2561.7	41.4			G2/5000
FVH (80°-90°)	135.3	2.2			G2/225
BL (0°-30°)	184.1	3.0	B1/500		
BM (30°-60°)	271.0	4.4	B1/1000		
BH (60°-80°)	62.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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: P677143

CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0
2.5°	1230.4	1230.4	1242.0	1230.4	1226.0	1198.4	1199.9	1185.4	1170.8	1150.5	1131.6
5°	1244.9	1255.1	1262.3	1252.2	1236.2	1239.1	1249.3	1221.7	1182.5	1157.8	1115.6
7.5°	1239.1	1260.9	1255.1	1249.3	1239.1	1231.8	1217.3	1205.7	1186.8	1163.6	1114.2
10°	1234.7	1242.0	1243.5	1239.1	1217.3	1237.7	1221.7	1202.8	1179.5	1151.9	1090.9
12.5°	1218.8	1218.8	1231.8	1221.7	1224.6	1234.7	1227.5	1223.1	1198.4	1175.2	1121.4
15°	1201.3	1207.1	1227.5	1243.5	1258.0	1253.6	1249.3	1236.2	1214.4	1188.3	1131.6
17.5°	1205.7	1208.6	1240.6	1269.6	1262.3	1259.4	1282.7	1255.1	1233.3	1204.2	1140.3
20°	1221.7	1230.4	1266.7	1304.5	1311.7	1311.7	1303.0	1287.0	1256.5	1217.3	1156.3
22.5°	1237.7	1240.6	1300.1	1348.1	1355.3	1336.4	1343.7	1297.2	1268.2	1246.4	1172.3
25°	1298.7	1292.9	1356.8	1394.5	1390.2	1371.3	1364.0	1323.4	1311.7	1272.5	1207.1
27.5°	1381.5	1356.8	1419.2	1442.5	1419.2	1425.0	1404.7	1361.1	1336.4	1313.2	1223.1
30°	1432.3	1446.8	1480.2	1503.5	1464.3	1465.7	1455.5	1407.6	1369.8	1375.7	1276.9
32.5°	1510.7	1520.9	1545.6	1555.8	1525.3	1522.4	1512.2	1474.4	1446.8	1441.0	1349.5
35°	1595.0	1613.9	1615.3	1618.2	1590.6	1602.3	1587.7	1534.0	1548.5	1558.7	1436.7
37.5°	1677.8	1660.4	1689.4	1702.5	1672.0	1672.0	1676.3	1640.0	1666.2	1696.7	1560.1
40°	1709.8	1717.0	1767.9	1757.7	1794.0	1772.2	1788.2	1779.5	1801.3	1871.0	1734.5
42.5°	1743.2	1751.9	1820.2	1839.0	1882.6	1889.9	1913.1	1914.6	1978.5	2093.3	1901.5
45°	1807.1	1792.6	1885.5	1932.0	2003.2	2023.5	2051.1	2074.4	2174.6	2309.7	2091.8
47.5°	1865.2	1844.9	1950.9	2043.9	2131.0	2135.4	2210.9	2235.6	2354.7	2508.7	2280.6
50°	1946.5	1953.8	1998.8	2158.6	2247.2	2298.1	2350.4	2431.7	2563.9	2728.1	2417.2
52.5°	2030.8	2023.5	2099.1	2256.0	2395.4	2414.3	2532.0	2623.5	2767.3	2890.8	2478.2
55°	2133.9	2142.6	2171.7	2378.0	2555.2	2600.2	2732.4	2828.3	2985.2	2960.5	2498.5
57.5°	2237.1	2228.4	2293.7	2514.5	2755.7	2789.1	2964.8	3021.5	3127.5	3007.0	2447.7
60°	2338.8	2354.7	2382.3	2668.5	2975.0	3024.4	3163.9	3192.9	3216.1	3028.8	2408.5
62.5°	2455.0	2417.2	2502.9	2831.2	3172.6	3275.7	3386.1	3271.3	3251.0	2989.5	2318.4
65°	2513.1	2524.7	2636.5	3017.1	3435.5	3511.0	3525.6	3377.4	3272.8	2902.4	2234.2
67.5°	2603.1	2619.1	2761.5	3207.4	3705.7	3747.8	3695.5	3473.3	3253.9	2789.1	1930.6
70°	2614.8	2654.0	2928.5	3406.4	3875.6	3912.0	3871.3	3537.2	3101.4	2343.1	1429.4
72.5°	2553.7	2623.5	2969.2	3519.8	4018.0	4109.5	3881.5	3312.0	2500.0	1494.8	732.1
75°	1929.1	1987.2	2717.9	3351.2	3765.2	3787.0	3407.9	2527.6	1423.6	509.9	187.4
77.5°	999.4	1099.6	1814.3	2561.0	2869.0	2845.7	2372.2	1489.0	489.5	133.6	75.5
80°	573.8	598.5	793.1	1438.1	1804.2	1715.6	1311.7	642.1	215.0	66.8	49.4
82.5°	283.3	318.1	427.1	643.5	902.1	742.3	492.4	385.0	120.6	36.3	43.6
85°	61.0	63.9	217.9	308.0	366.1	241.1	168.5	323.9	43.6	21.8	42.1
87.5°	43.6	42.1	61.0	138.0	101.7	62.5	100.2	170.0	10.2	10.2	8.7
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: P677143  
 CATALOG NUMBER: CCW-SA-1F-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0	1120.0
2.5°	1120.0	1106.9	1092.4	1064.8	1057.5	1053.2	1028.5	1027.0	1022.7	1012.5	1008.1
5°	1089.5	1067.7	1040.1	1011.0	987.8	945.7	894.8	868.7	836.7	838.2	828.0
7.5°	1085.1	1044.4	1005.2	944.2	870.1	791.7	713.2	662.4	626.1	604.3	608.7
10°	1064.8	1034.3	970.4	857.1	737.9	618.8	518.6	443.1	399.5	366.1	376.2
12.5°	1073.5	1013.9	923.9	772.8	602.8	456.1	331.2	258.6	226.6	215.0	217.9
15°	1067.7	1013.9	896.3	681.3	473.6	309.4	215.0	191.7	185.9	185.9	183.0
17.5°	1085.1	1025.6	849.8	591.2	339.9	206.3	184.5	180.1	175.8	175.8	175.8
20°	1109.8	1031.4	817.8	491.0	239.7	181.6	172.9	170.0	168.5	168.5	167.1
22.5°	1111.3	1025.6	758.3	380.6	184.5	171.4	164.1	162.7	162.7	159.8	159.8
25°	1120.0	1031.4	694.4	286.2	171.4	161.2	155.4	154.0	155.4	154.0	152.5
27.5°	1141.8	1041.5	630.4	209.2	161.2	152.5	148.2	146.7	146.7	146.7	143.8
30°	1169.4	1041.5	559.3	172.9	152.5	143.8	139.5	138.0	136.5	136.5	136.5
32.5°	1227.5	1075.0	472.1	154.0	140.9	133.6	129.3	129.3	127.8	127.8	126.4
35°	1300.1	1098.2	383.5	142.4	130.7	123.5	119.1	119.1	117.7	117.7	116.2
37.5°	1390.2	1156.3	293.4	133.6	120.6	113.3	108.9	108.9	108.9	107.5	107.5
40°	1518.0	1215.9	217.9	122.0	110.4	103.1	100.2	98.8	97.3	97.3	94.4
42.5°	1654.6	1307.4	162.7	113.3	101.7	95.9	91.5	87.2	87.2	82.8	82.8
45°	1802.7	1387.3	132.2	103.1	93.0	85.7	81.3	78.4	74.1	71.2	71.2
47.5°	1948.0	1436.7	116.2	91.5	84.3	78.4	74.1	68.3	62.5	61.0	59.6
50°	2065.7	1451.2	103.1	82.8	77.0	71.2	65.4	58.1	52.3	49.4	47.9
52.5°	2065.7	1371.3	93.0	74.1	69.7	63.9	56.7	47.9	40.7	37.8	36.3
55°	2065.7	1244.9	82.8	68.3	62.5	58.1	47.9	39.2	32.0	27.6	26.1
57.5°	2035.2	1092.4	74.1	61.0	55.2	49.4	40.7	30.5	23.2	18.9	18.9
60°	1950.9	932.6	63.9	53.7	47.9	40.7	32.0	21.8	14.5	10.2	10.2
62.5°	1843.4	742.3	55.2	45.0	39.2	33.4	24.7	14.5	5.8	2.9	2.9
65°	1656.0	547.6	47.9	37.8	30.5	24.7	16.0	5.8	0.0	0.0	0.0
67.5°	1366.9	366.1	37.8	30.5	26.1	17.4	10.2	1.5	0.0	0.0	0.0
70°	961.6	207.7	29.1	21.8	18.9	11.6	2.9	0.0	0.0	0.0	0.0
72.5°	395.1	91.5	20.3	16.0	13.1	5.8	0.0	0.0	0.0	0.0	0.0
75°	107.5	40.7	13.1	8.7	7.3	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	62.5	27.6	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.4	13.1	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.4	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	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)