

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: P676793

Luminaire Tested: **CCW-SA-2E-850-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676793  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-850-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

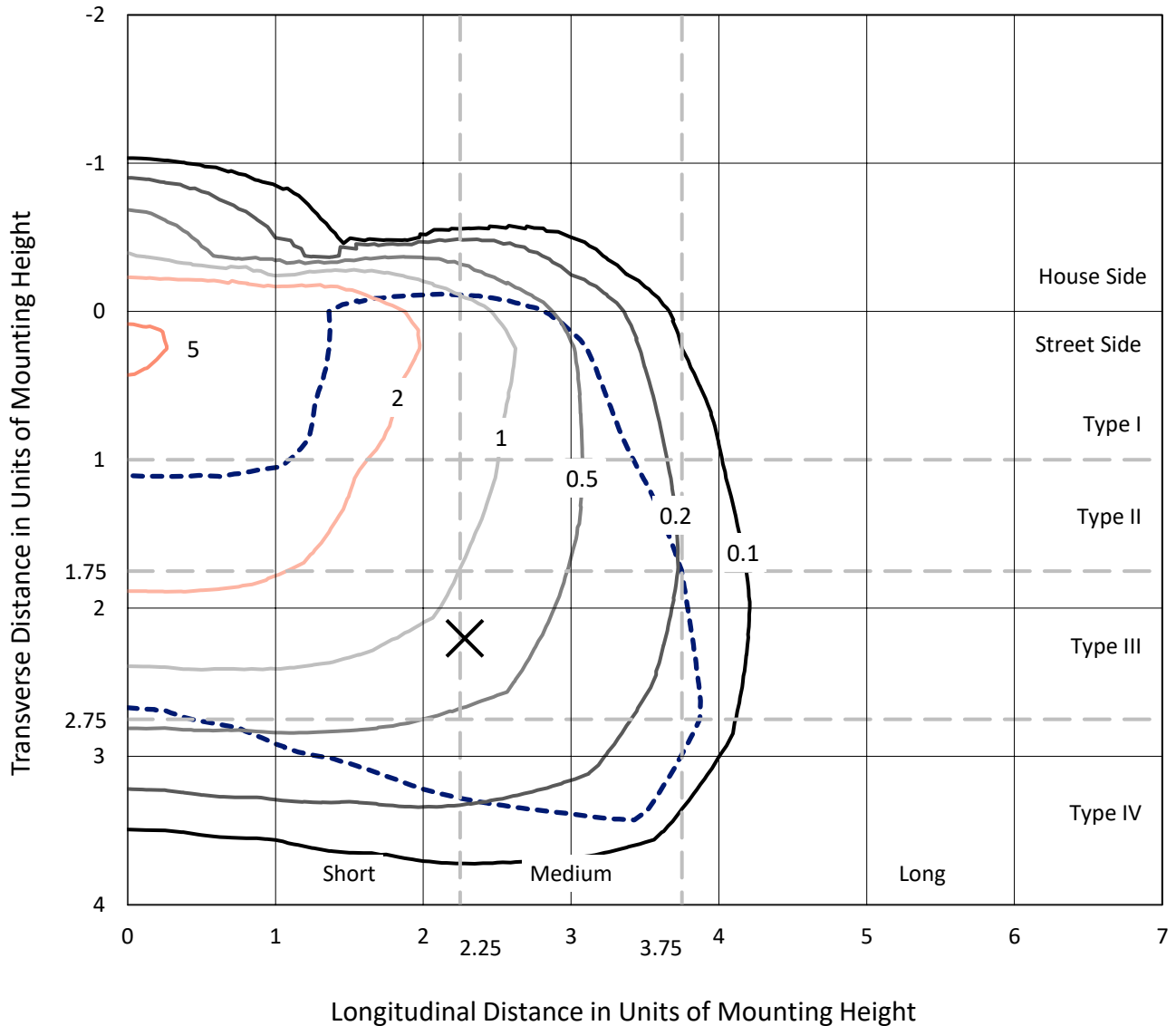
Lumens per Lamp: N/A  
Luminaire Lumens: 8608.1 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
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

REPORT NUMBER: P676793  
 CATALOG NUMBER: CCW-SA-2E-850-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

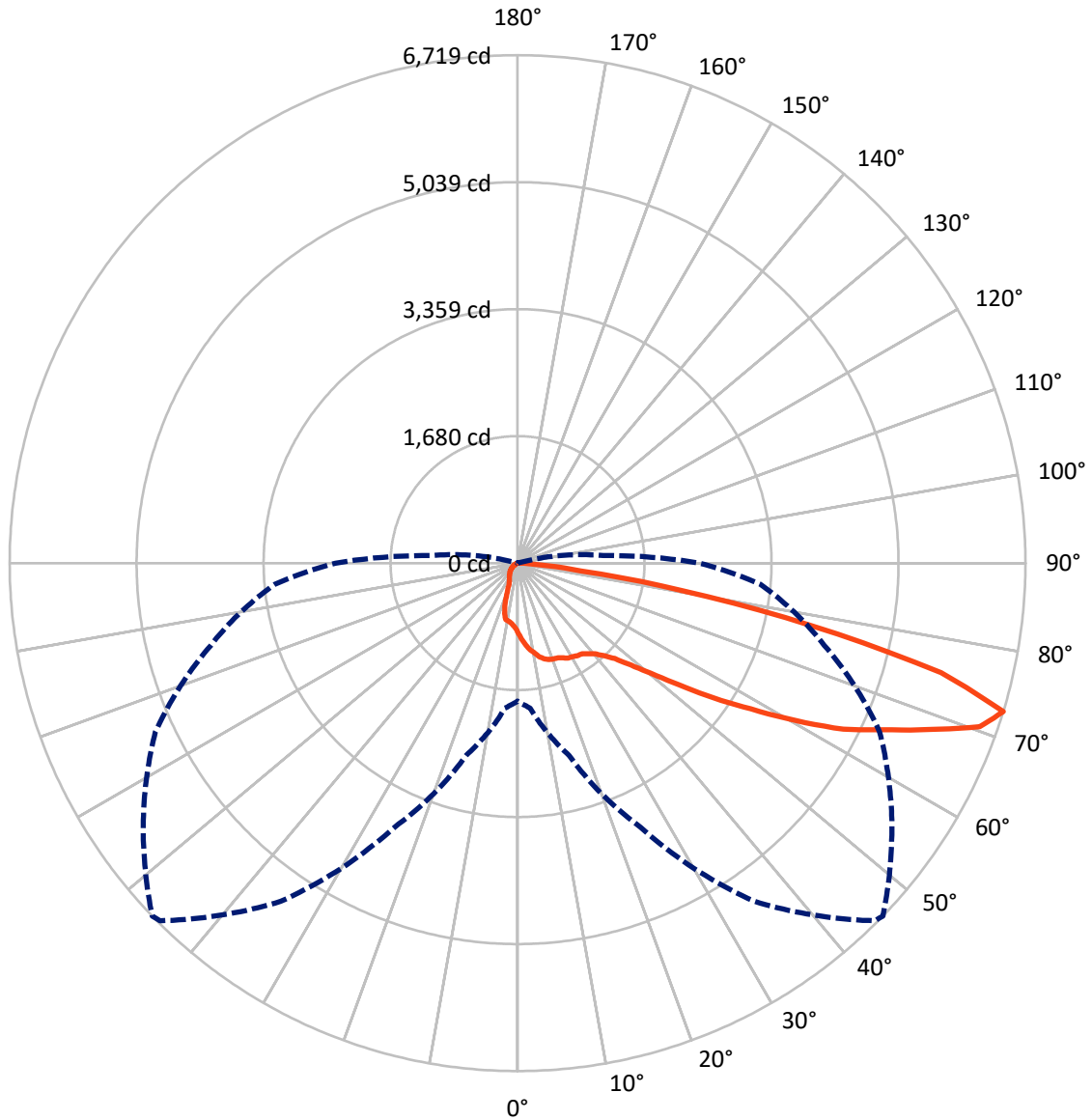
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P676793  
CATALOG NUMBER: CCW-SA-2E-850-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: CCW-SA-2E-850-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	926.7	0.0	926.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	7681.3	0.0	7681.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	8608.1	0.0	8608.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.1
10°-20°	278.0	3.2
20°-30°	435.2	5.1
30°-40°	609.5	7.1
40°-50°	1005.1	11.7
50°-60°	1806.4	21.0
60°-70°	2618.2	30.4
70°-80°	1634.0	19.0
80°-90°	129.5	1.5
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°	8608.1	100.0
0°-180°	8608.1	100.0



REPORT NUMBER: P676793

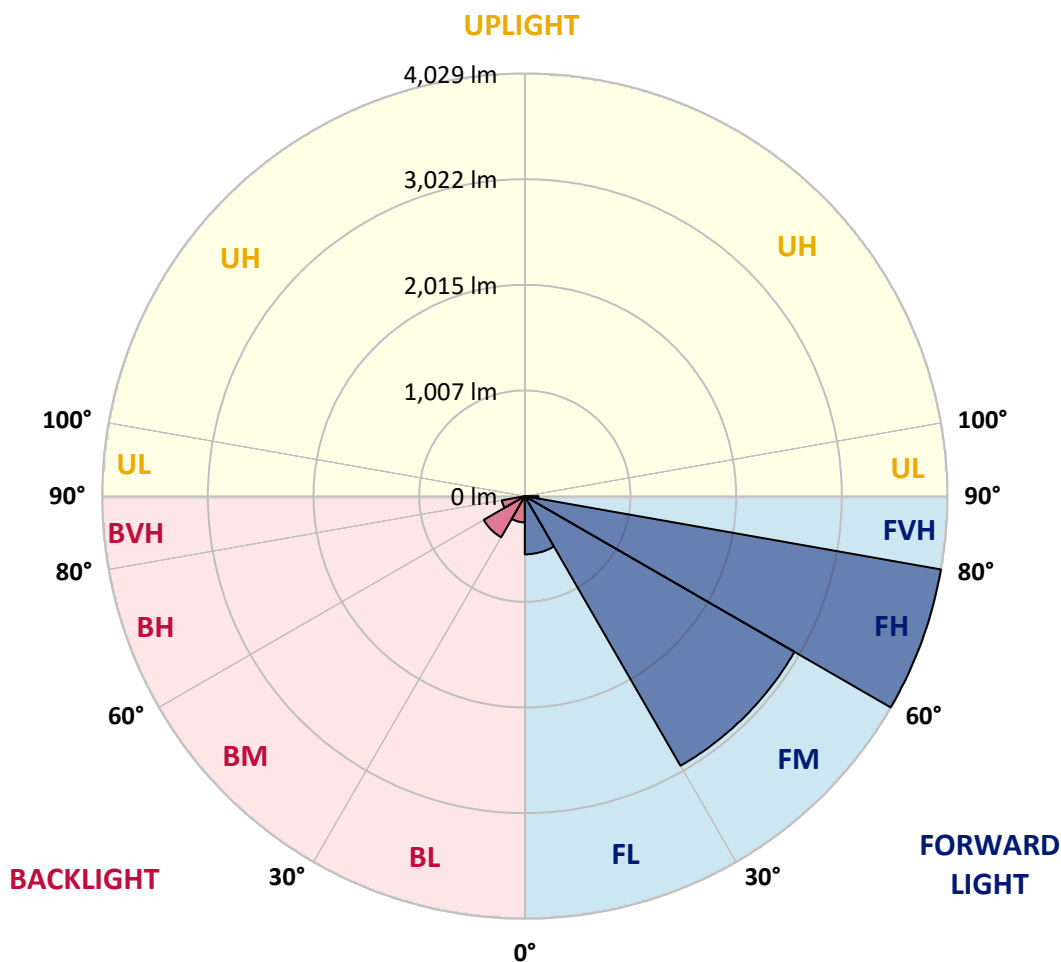
CATALOG NUMBER: CCW-SA-2E-850-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.8	6.4			
FM (30°-60°)	2968.2	34.5			
FH (60°-80°)	4029.4	46.8			G2/5000
FVH (80°-90°)	128.8	1.5			G2/225
BL (0°-30°)	250.5	2.9	B1/500		
BM (30°-60°)	452.7	5.3	B1/1000		
BH (60°-80°)	222.9	2.6	B1/500		G1/500
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 Medium





REPORT NUMBER: P676793

CATALOG NUMBER: CCW-SA-2E-850-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	1029.8	1025.4	1032.0	1029.8	1003.4	1007.8	1005.6	988.1	957.3	939.8	928.8
5°	1148.3	1159.3	1150.5	1130.8	1115.4	1084.7	1080.3	1051.7	1003.4	972.7	939.8
7.5°	1271.3	1271.3	1253.7	1223.0	1190.1	1157.1	1152.7	1104.4	1062.7	1010.0	963.9
10°	1363.5	1352.5	1339.4	1306.4	1269.1	1225.2	1203.2	1168.1	1122.0	1058.3	999.0
12.5°	1444.8	1427.2	1405.2	1356.9	1313.0	1264.7	1269.1	1212.0	1181.3	1124.2	1036.4
15°	1490.9	1475.5	1455.7	1411.8	1343.8	1321.8	1313.0	1277.9	1223.0	1165.9	1082.5
17.5°	1501.8	1490.9	1464.5	1407.4	1370.1	1343.8	1341.6	1299.8	1275.7	1227.4	1135.2
20°	1479.9	1460.1	1440.4	1403.0	1367.9	1359.1	1352.5	1352.5	1321.8	1258.1	1168.1
22.5°	1442.6	1420.6	1409.6	1387.7	1359.1	1356.9	1361.3	1356.9	1332.8	1291.1	1203.2
25°	1414.0	1403.0	1385.5	1378.9	1361.3	1394.3	1387.7	1381.1	1374.5	1326.2	1258.1
27.5°	1422.8	1420.6	1407.4	1381.1	1367.9	1403.0	1422.8	1425.0	1422.8	1374.5	1308.6
30°	1427.2	1416.2	1403.0	1396.5	1400.8	1436.0	1436.0	1484.3	1464.5	1416.2	1359.1
32.5°	1477.7	1471.1	1427.2	1411.8	1414.0	1455.7	1457.9	1506.2	1499.7	1466.7	1403.0
35°	1585.3	1541.4	1477.7	1433.8	1433.8	1488.7	1471.1	1541.4	1558.9	1506.2	1433.8
37.5°	1745.6	1712.6	1598.5	1499.7	1462.3	1501.8	1519.4	1558.9	1611.6	1565.5	1495.3
40°	2063.9	2057.4	1894.9	1681.9	1534.8	1569.9	1576.5	1638.0	1673.1	1609.4	1589.7
42.5°	2529.4	2496.5	2345.0	2009.1	1666.5	1651.2	1675.3	1714.8	1798.3	1745.6	1697.3
45°	2983.9	2968.6	2817.1	2441.6	1905.9	1813.6	1800.5	1870.7	1993.7	1936.6	1899.3
47.5°	3313.3	3282.5	3196.9	2880.7	2257.2	2004.7	2013.4	2083.7	2239.6	2195.7	2206.7
50°	3565.8	3550.4	3460.4	3286.9	2700.7	2305.5	2287.9	2358.2	2569.0	2597.5	2628.2
52.5°	3842.4	3871.0	3750.2	3603.1	3225.5	2709.5	2670.0	2694.1	2966.4	3032.2	3117.9
55°	4108.1	4154.2	4033.5	4013.7	3774.4	3157.4	3150.8	3093.7	3445.0	3453.8	3499.9
57.5°	4281.6	4266.2	4257.4	4365.0	4323.3	3671.2	3638.3	3581.2	3899.5	3842.4	3980.8
60°	4294.8	4338.7	4485.8	4751.5	4826.1	4275.0	4226.7	4070.8	4292.6	4156.4	4419.9
62.5°	4393.6	4428.7	4701.0	5067.6	5164.3	4806.4	4839.3	4444.1	4628.5	4520.9	4907.4
65°	4143.3	4253.0	4799.8	5313.6	5607.8	5344.3	5311.4	4924.9	4973.2	4872.2	5388.2
67.5°	3917.1	3958.8	4529.7	5388.2	5959.1	5884.4	5871.3	5350.9	5328.9	5142.3	5524.3
70°	3183.7	3234.2	3798.5	5006.2	6077.7	6514.6	6483.9	5948.1	5570.5	4995.2	4826.1
72.5°	1824.6	1925.6	2632.6	3855.6	5460.7	6690.3	6718.8	6044.7	5285.0	4200.3	3223.3
75°	597.2	625.8	1093.5	2184.7	4084.0	5836.1	5785.6	5195.0	4264.0	2773.2	1455.7
77.5°	202.0	206.4	322.8	790.4	2263.8	3943.5	3972.0	3712.9	2619.5	1152.7	401.8
80°	103.2	109.8	158.1	296.4	931.0	2147.4	2193.5	2116.6	1097.8	340.3	96.6
82.5°	48.3	50.5	92.2	164.7	426.0	843.1	843.1	926.6	388.6	191.0	39.5
85°	17.6	17.6	48.3	94.4	180.0	281.0	283.2	285.4	204.2	142.7	17.6
87.5°	6.6	6.6	24.2	39.5	65.9	85.6	85.6	68.1	103.2	94.4	6.6
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: P676793  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	924.4	911.2	900.2	884.9	865.1	854.1	856.3	843.1	843.1	836.6	834.4
5°	924.4	911.2	882.7	856.3	838.8	816.8	805.8	797.0	797.0	792.6	794.8
7.5°	931.0	911.2	871.7	836.6	808.0	786.1	768.5	766.3	761.9	750.9	759.7
10°	970.5	941.9	876.1	827.8	794.8	770.7	739.9	731.2	718.0	698.2	700.4
12.5°	1003.4	966.1	906.8	840.9	799.2	759.7	689.4	612.6	579.7	544.5	546.7
15°	1051.7	999.0	917.8	858.5	799.2	671.9	544.5	445.7	393.0	366.7	366.7
17.5°	1078.1	1034.2	948.5	869.5	735.6	546.7	386.4	300.8	292.0	296.4	296.4
20°	1133.0	1073.7	983.7	878.3	630.2	388.6	283.2	274.5	278.9	287.6	285.4
22.5°	1168.1	1108.8	1010.0	838.8	487.4	278.9	265.7	261.3	265.7	276.7	276.7
25°	1196.6	1159.3	1051.7	742.1	344.7	252.5	248.1	252.5	256.9	261.3	267.9
27.5°	1266.9	1203.2	1080.3	617.0	248.1	234.9	239.3	241.5	241.5	248.1	250.3
30°	1313.0	1262.5	1102.2	476.5	219.6	217.4	221.8	224.0	226.2	232.7	234.9
32.5°	1356.9	1339.4	1073.7	322.8	206.4	202.0	199.8	202.0	210.8	217.4	215.2
35°	1420.6	1409.6	1032.0	224.0	193.2	184.4	180.0	182.2	188.8	195.4	193.2
37.5°	1497.5	1508.4	931.0	195.4	180.0	169.1	160.3	160.3	162.5	169.1	171.3
40°	1587.5	1616.0	812.4	182.2	171.3	158.1	149.3	138.3	136.1	133.9	136.1
42.5°	1752.2	1785.1	678.5	173.5	158.1	142.7	129.5	116.4	105.4	98.8	98.8
45°	1982.7	1956.4	502.8	164.7	151.5	129.5	109.8	94.4	79.0	72.5	72.5
47.5°	2301.1	2211.1	344.7	155.9	140.5	114.2	92.2	72.5	59.3	52.7	52.7
50°	2742.4	2446.0	224.0	147.1	133.9	98.8	74.7	52.7	43.9	41.7	43.9
52.5°	3159.6	2685.3	177.9	136.1	120.8	85.6	57.1	43.9	39.5	37.3	37.3
55°	3543.8	2806.1	158.1	125.2	109.8	70.3	48.3	37.3	35.1	32.9	32.9
57.5°	3868.8	2847.8	136.1	109.8	87.8	54.9	39.5	32.9	28.5	26.3	26.3
60°	4149.8	2858.8	105.4	87.8	63.7	41.7	32.9	28.5	24.2	19.8	19.8
62.5°	4373.8	2781.9	74.7	61.5	43.9	32.9	28.5	19.8	13.2	8.8	6.6
65°	4551.7	2628.2	50.5	41.7	28.5	24.2	17.6	8.8	2.2	0.0	0.0
67.5°	4343.1	2279.1	39.5	30.7	19.8	15.4	8.8	2.2	0.0	0.0	0.0
70°	3541.6	1767.5	28.5	19.8	13.2	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	2410.9	1139.6	22.0	13.2	6.6	2.2	0.0	0.0	0.0	0.0	0.0
75°	1082.5	408.4	15.4	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	263.5	96.6	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.3	24.2	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	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)