

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: P676643

Luminaire Tested: **CCW-SA-1E-850-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676643  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-850-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

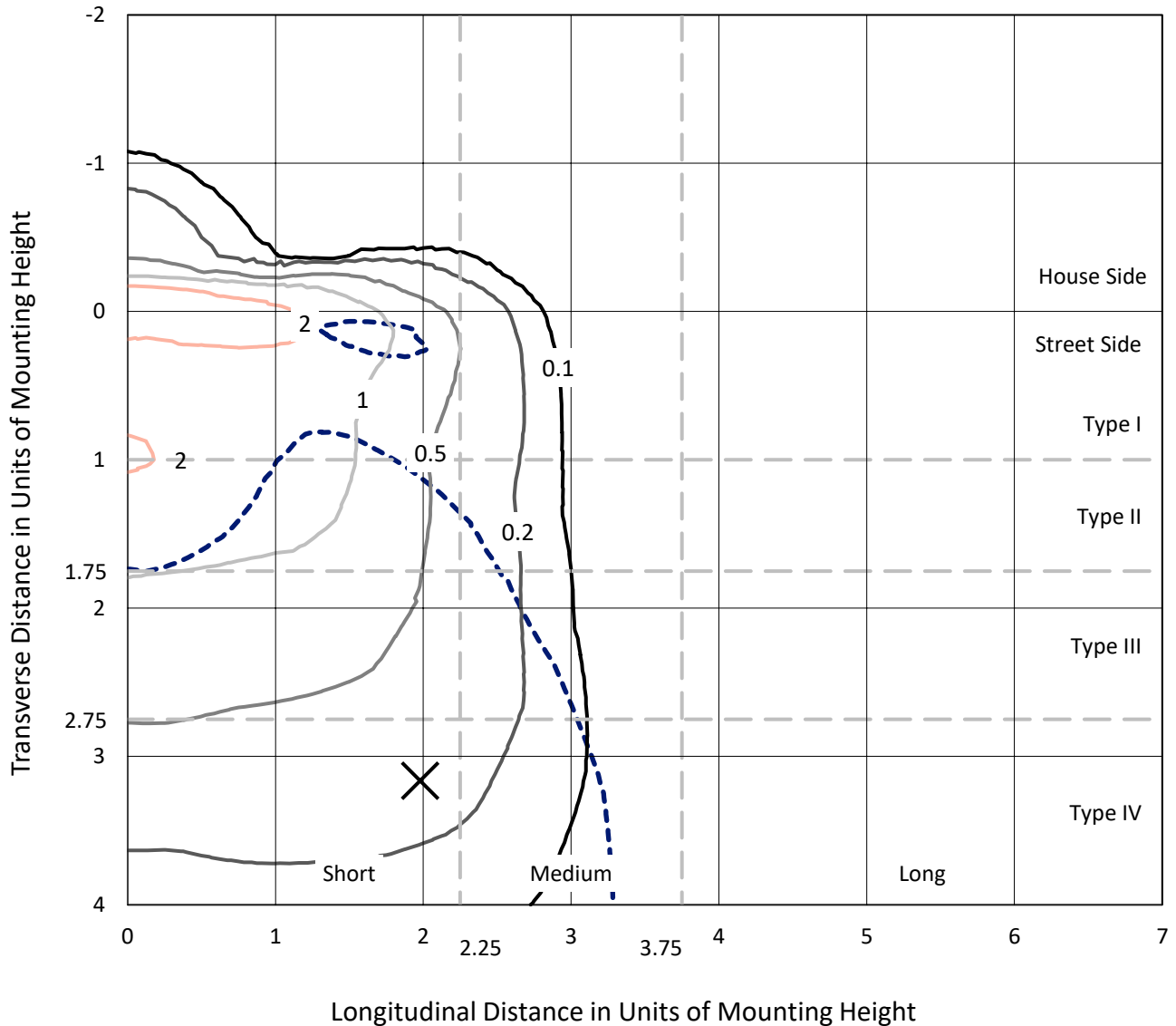
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4283.9 lumens  
Efficiency: N/A  
Efficacy: 76.4 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): 56.1  
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

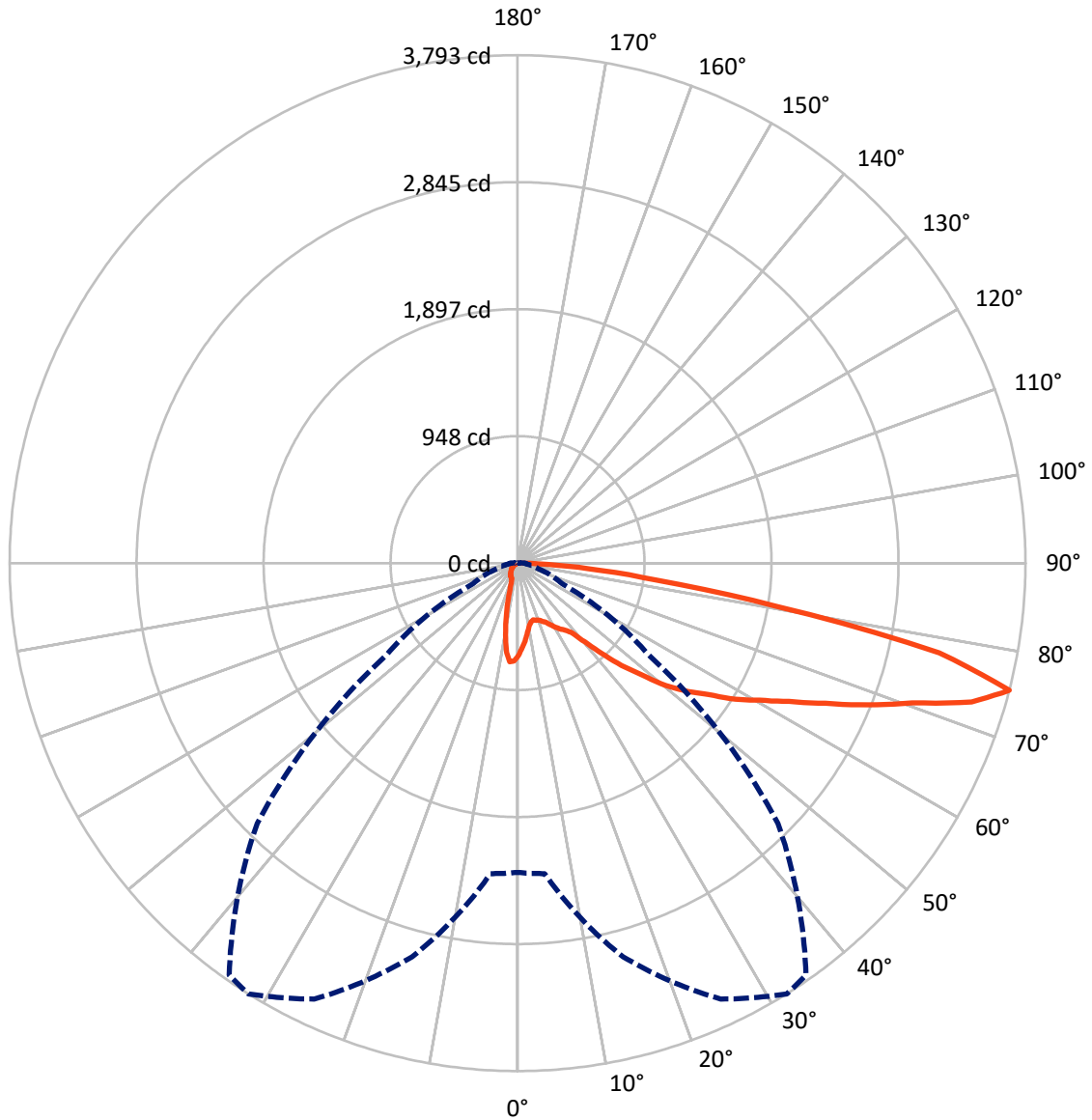
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	462.8	0.0	462.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3821.1	0.0	3821.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4283.9	0.0	4283.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.4
10°-20°	138.0	3.2
20°-30°	206.6	4.8
30°-40°	317.2	7.4
40°-50°	554.7	12.9
50°-60°	867.0	20.2
60°-70°	1120.9	26.2
70°-80°	913.0	21.3
80°-90°	105.7	2.5
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°	4283.9	100.0
0°-180°	4283.9	100.0



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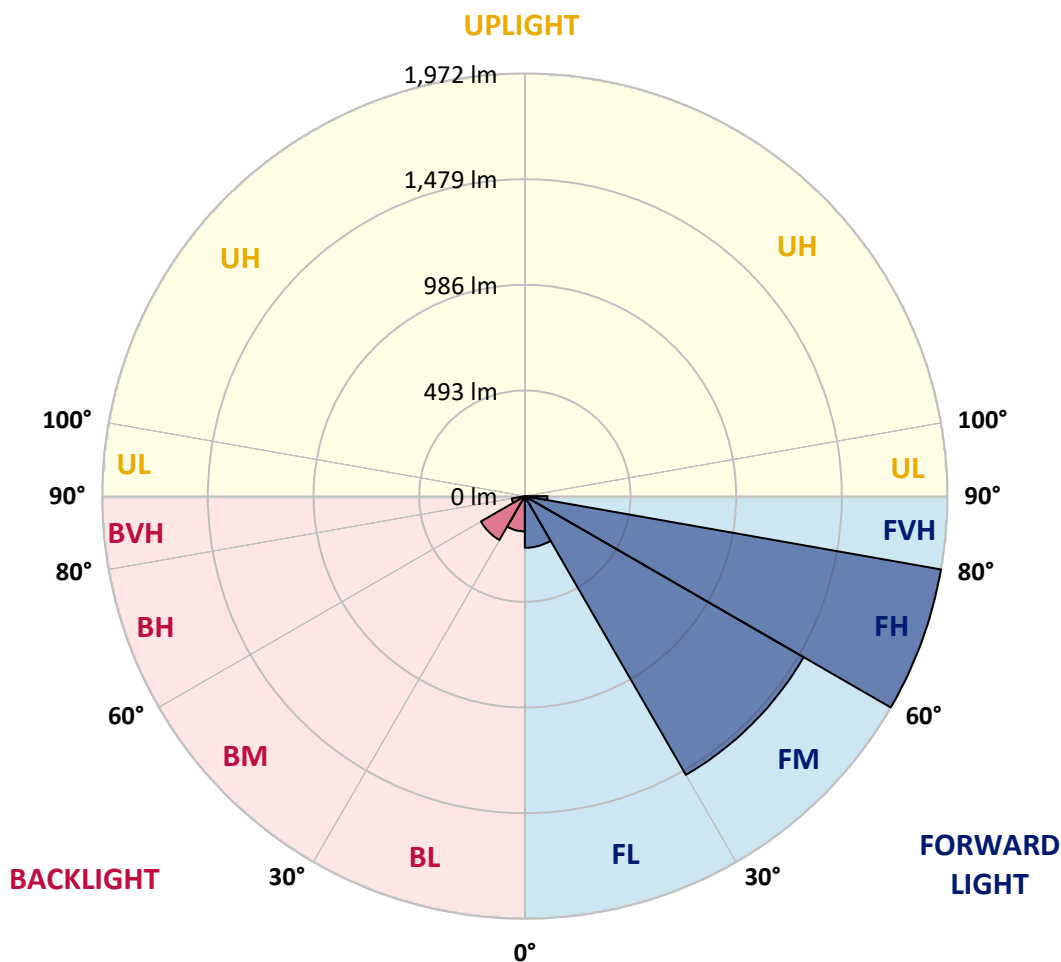
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.0	5.6			
FM (30°-60°)	1502.1	35.1			
FH (60°-80°)	1972.3	46.0			G2/5000
FVH (80°-90°)	105.6	2.5			G2/225
BL (0°-30°)	164.4	3.8	B1/500		
BM (30°-60°)	236.8	5.5	B1/1000		
BH (60°-80°)	61.6	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	620.3	629.1	628.0	633.5	634.6	637.9	645.6	645.6	667.6	682.9	692.8
5°	564.3	558.9	561.1	567.6	584.1	583.0	601.7	611.6	637.9	659.9	682.9
7.5°	495.2	494.1	498.5	513.8	525.9	535.8	555.6	580.8	616.0	648.9	689.5
10°	451.3	449.1	457.8	462.2	476.5	483.1	513.8	553.4	595.1	642.3	689.5
12.5°	441.4	433.7	438.1	437.0	450.2	453.5	483.1	531.4	581.9	640.1	698.3
15°	446.9	441.4	437.0	437.0	440.3	442.5	474.3	517.1	574.2	643.4	718.1
17.5°	464.4	461.1	448.0	434.8	449.1	449.1	468.8	513.8	575.3	653.3	742.2
20°	485.3	482.0	458.9	443.6	453.5	464.4	485.3	521.5	578.6	661.0	779.5
22.5°	508.4	508.4	476.5	458.9	472.1	473.2	510.5	545.7	591.8	680.7	803.7
25°	536.9	534.7	504.0	484.2	488.6	500.7	534.7	572.0	616.0	708.2	848.7
27.5°	574.2	570.9	534.7	514.9	520.4	533.6	572.0	609.4	637.9	719.2	887.1
30°	605.0	601.7	572.0	542.4	554.5	566.5	611.6	644.5	665.4	740.0	931.1
32.5°	611.6	606.1	586.3	573.1	586.3	609.4	644.5	678.5	710.4	792.7	1014.5
35°	687.3	667.6	616.0	595.1	614.9	622.5	680.7	741.1	771.9	834.4	1107.8
37.5°	832.2	813.6	745.5	687.3	659.9	668.7	744.4	819.1	848.7	912.4	1209.9
40°	1010.1	979.4	906.9	829.0	773.0	762.0	811.4	921.2	949.7	1010.1	1343.9
42.5°	1213.2	1183.6	1071.6	979.4	922.3	908.0	915.7	1039.8	1063.9	1100.2	1431.7
45°	1359.3	1343.9	1217.6	1135.3	1090.3	1074.9	1056.2	1169.3	1200.1	1212.1	1559.1
47.5°	1443.8	1432.8	1362.6	1306.6	1246.2	1229.7	1241.8	1349.4	1328.5	1338.4	1681.0
50°	1556.9	1528.4	1432.8	1450.4	1438.3	1433.9	1454.8	1502.0	1471.3	1442.7	1813.8
52.5°	1648.0	1597.5	1530.5	1573.4	1592.0	1608.5	1682.1	1717.2	1580.0	1536.0	1899.5
55°	1704.0	1655.7	1673.3	1712.8	1732.6	1808.3	1895.1	1868.7	1651.3	1610.7	2013.6
57.5°	1754.5	1757.8	1805.0	1817.1	1918.1	1931.3	2098.2	2012.6	1701.8	1678.8	2058.7
60°	1876.4	1864.3	1902.8	1980.7	2077.3	2150.9	2310.1	2109.2	1727.1	1713.9	2046.6
62.5°	2096.0	2021.3	2034.5	2133.3	2275.0	2355.1	2432.0	2153.1	1720.5	1719.4	2010.4
65°	2374.9	2289.2	2249.7	2341.9	2525.3	2638.4	2569.2	2202.5	1676.6	1707.3	1875.3
67.5°	2606.5	2607.6	2534.1	2585.7	2825.0	2849.2	2698.8	2192.6	1603.0	1611.8	1545.9
70°	2873.3	2909.6	2844.8	3006.2	3125.9	3141.2	2847.0	2111.4	1444.9	1215.4	888.2
72.5°	2941.4	2960.1	3162.1	3410.2	3545.3	3549.7	2993.0	1840.2	950.8	536.9	275.6
75°	2310.1	2327.7	3043.5	3592.5	3793.4	3755.0	2749.3	1194.6	370.0	157.0	65.9
77.5°	1289.0	1294.5	1889.6	2904.1	3218.1	3063.3	1925.8	465.5	149.3	90.0	30.7
80°	352.4	413.9	700.5	1431.7	1965.3	1929.1	916.8	151.5	96.6	70.3	14.3
82.5°	84.5	91.1	225.1	633.5	1038.7	1083.7	273.4	76.9	67.0	58.2	7.7
85°	30.7	34.0	69.2	308.5	533.6	489.7	82.3	38.4	49.4	45.0	3.3
87.5°	11.0	11.0	22.0	101.0	155.9	117.5	27.4	13.2	25.3	27.4	1.1
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°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	693.9	693.9	709.3	722.5	726.8	732.3	726.8	738.9	737.8	732.3	734.5
5°	695.0	714.8	727.9	736.7	741.1	740.0	742.2	729.0	721.4	715.9	710.4
7.5°	700.5	719.2	743.3	741.1	729.0	703.8	684.0	648.9	614.9	613.8	608.3
10°	719.2	735.6	749.9	741.1	697.2	620.3	557.8	510.5	467.7	448.0	450.2
12.5°	732.3	763.1	756.5	711.5	620.3	519.3	427.1	357.9	319.5	283.3	283.3
15°	759.8	770.8	768.6	668.7	525.9	405.1	293.2	222.9	182.3	165.8	163.6
17.5°	786.1	798.2	760.9	603.9	432.6	272.3	177.9	138.3	132.9	130.7	131.8
20°	819.1	820.2	754.3	539.1	325.0	172.4	127.4	124.1	125.2	124.1	124.1
22.5°	854.2	861.9	731.2	448.0	216.3	125.2	118.6	119.7	119.7	119.7	123.0
25°	900.3	888.2	695.0	361.2	141.6	115.3	115.3	116.4	116.4	116.4	117.5
27.5°	931.1	914.6	648.9	260.2	110.9	108.7	110.9	110.9	113.1	113.1	113.1
30°	994.7	951.9	590.7	168.0	99.9	103.2	105.4	107.6	108.7	110.9	112.0
32.5°	1044.2	984.9	518.2	112.0	91.1	93.3	98.8	103.2	107.6	106.5	106.5
35°	1134.2	1038.7	451.3	88.9	83.4	83.4	88.9	96.6	103.2	105.4	105.4
37.5°	1237.4	1082.6	357.9	81.2	76.9	76.9	80.2	88.9	97.7	102.1	99.9
40°	1323.0	1133.1	264.6	75.8	71.4	71.4	73.6	80.2	90.0	97.7	98.8
42.5°	1383.4	1170.4	179.0	70.3	67.0	65.9	69.2	72.5	80.2	91.1	93.3
45°	1438.3	1190.2	110.9	64.8	62.6	62.6	62.6	65.9	71.4	81.2	83.4
47.5°	1536.0	1212.1	80.2	60.4	57.1	58.2	59.3	60.4	64.8	67.0	68.1
50°	1618.4	1228.6	65.9	56.0	53.8	54.9	54.9	54.9	57.1	53.8	53.8
52.5°	1681.0	1212.1	56.0	51.6	49.4	50.5	49.4	49.4	47.2	42.8	42.8
55°	1727.1	1182.5	45.0	47.2	47.2	47.2	45.0	41.7	37.3	34.0	34.0
57.5°	1739.2	1132.0	35.1	39.5	42.8	42.8	38.4	34.0	28.5	25.3	24.2
60°	1720.5	1022.2	26.4	28.5	32.9	34.0	30.7	25.3	19.8	16.5	16.5
62.5°	1653.5	935.5	20.9	18.7	24.2	25.3	22.0	16.5	11.0	7.7	6.6
65°	1526.2	801.5	15.4	13.2	16.5	17.6	14.3	7.7	3.3	1.1	0.0
67.5°	1224.2	603.9	9.9	8.8	11.0	11.0	6.6	2.2	0.0	0.0	0.0
70°	677.4	339.3	6.6	4.4	5.5	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	195.4	96.6	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.7	23.1	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.1	8.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)