

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: P676632

Luminaire Tested: **CCW-SA-1E-840-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676632  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-840-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) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

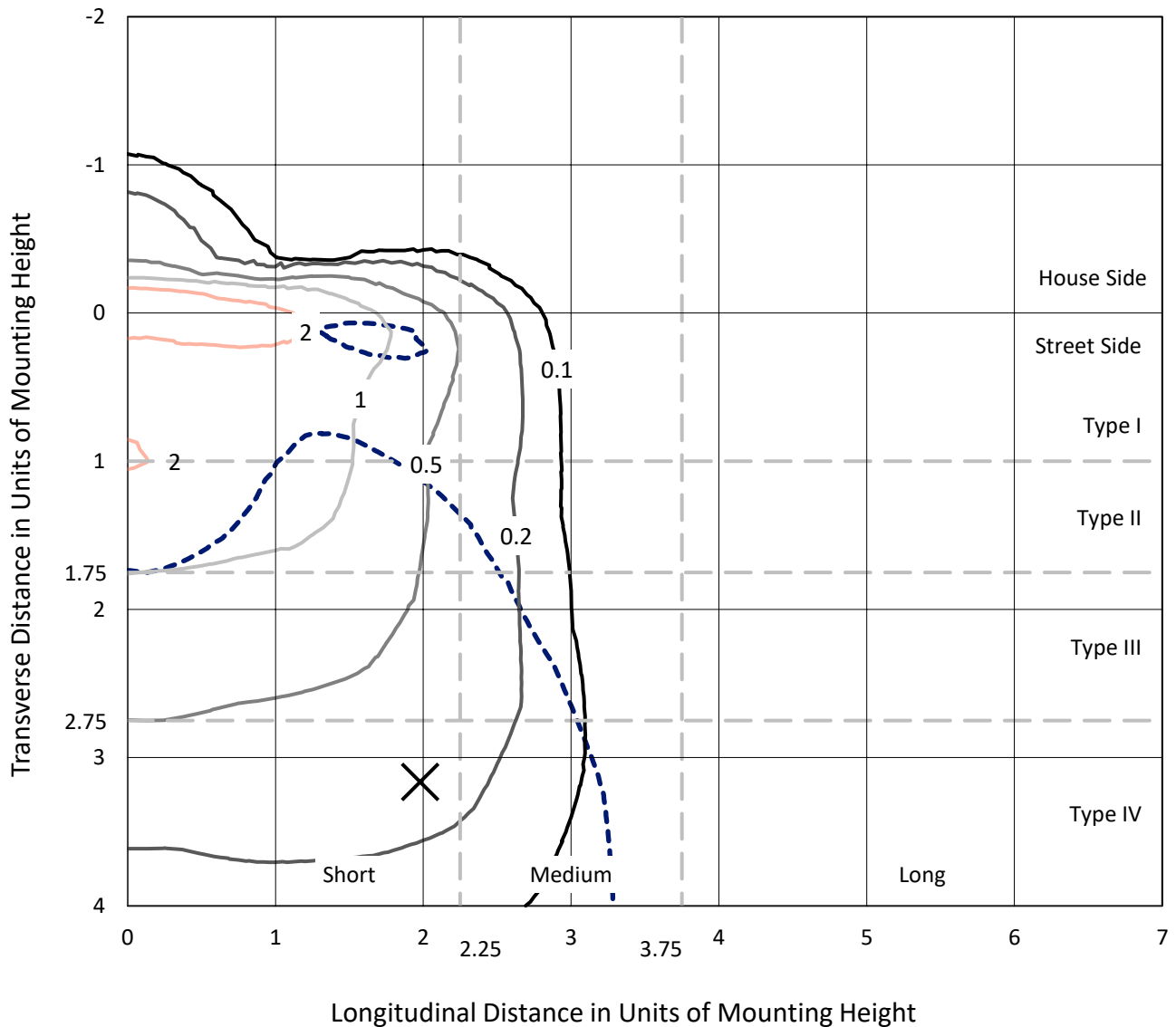
Lumens per Lamp: N/A  
Luminaire Lumens: 4185.7 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (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

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### Iso-Footcandle Lines of Horizontal Illumination

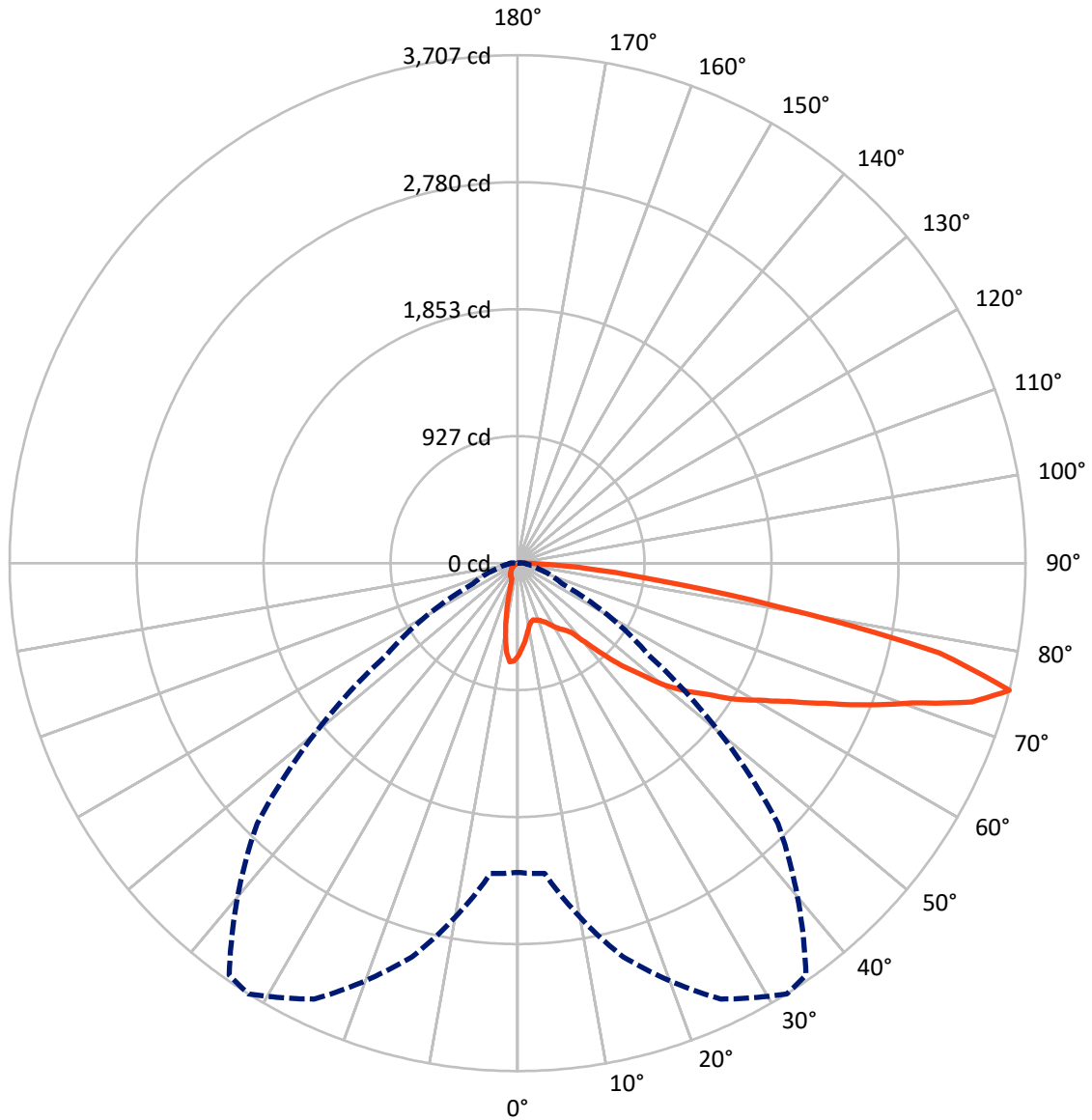
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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	452.2	0.0	452.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3733.5	0.0	3733.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4185.7	0.0	4185.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.4
10°-20°	134.8	3.2
20°-30°	201.9	4.8
30°-40°	309.9	7.4
40°-50°	542.0	12.9
50°-60°	847.1	20.2
60°-70°	1095.2	26.2
70°-80°	892.0	21.3
80°-90°	103.3	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°	4185.7	100.0
0°-180°	4185.7	100.0



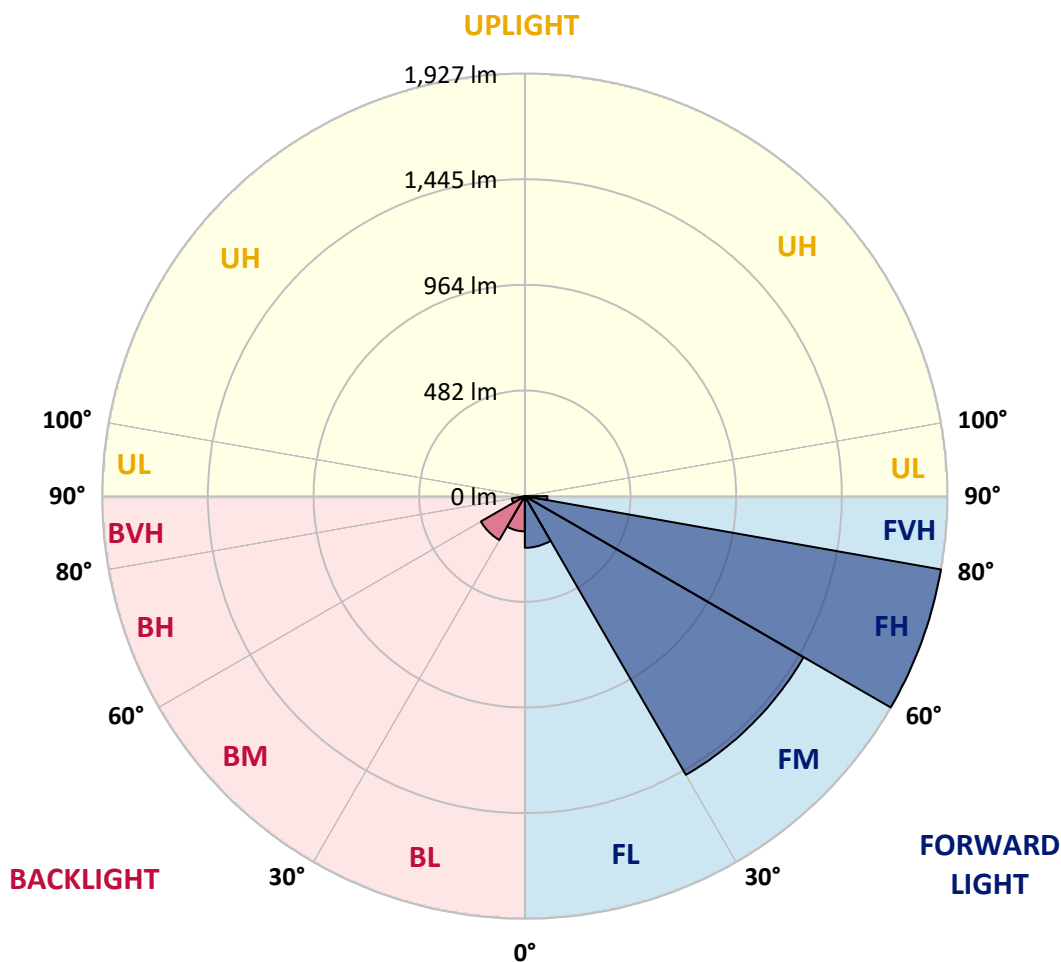
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.5	5.6			
FM (30°-60°)	1467.7	35.1			
FH (60°-80°)	1927.1	46.0			G2/5000
FVH (80°-90°)	103.2	2.5			G2/225
BL (0°-30°)	160.6	3.8	B1/500		
BM (30°-60°)	231.3	5.5	B1/1000		
BH (60°-80°)	60.1	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°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	606.1	614.7	613.6	619.0	620.1	623.3	630.8	630.8	652.3	667.3	676.9
5°	551.4	546.0	548.2	554.6	570.7	569.7	587.9	597.5	623.3	644.7	667.3
7.5°	483.8	482.8	487.0	502.1	513.9	523.5	542.8	567.5	601.8	634.0	673.7
10°	440.9	438.8	447.4	451.6	465.6	472.0	502.1	540.7	581.5	627.6	673.7
12.5°	431.3	423.8	428.0	427.0	439.8	443.1	472.0	519.2	568.6	625.4	682.3
15°	436.6	431.3	427.0	427.0	430.2	432.3	463.4	505.3	561.1	628.7	701.6
17.5°	453.8	450.6	437.7	424.8	438.8	438.8	458.1	502.1	562.1	638.3	725.2
20°	474.2	471.0	448.4	433.4	443.1	453.8	474.2	509.6	565.4	645.8	761.7
22.5°	496.7	496.7	465.6	448.4	461.3	462.4	498.8	533.2	578.2	665.1	785.3
25°	524.6	522.4	492.4	473.1	477.4	489.2	522.4	558.9	601.8	691.9	829.3
27.5°	561.1	557.9	522.4	503.1	508.5	521.4	558.9	595.4	623.3	702.7	866.8
30°	591.1	587.9	558.9	530.0	541.8	553.6	597.5	629.7	650.1	723.1	909.7
32.5°	597.5	592.2	572.9	560.0	572.9	595.4	629.7	663.0	694.1	774.6	991.3
35°	671.6	652.3	601.8	581.5	600.8	608.3	665.1	724.1	754.2	815.3	1082.4
37.5°	813.2	794.9	728.4	671.6	644.7	653.3	727.4	800.3	829.3	891.5	1182.2
40°	987.0	956.9	886.1	810.0	755.2	744.5	792.8	900.1	928.0	987.0	1313.1
42.5°	1185.4	1156.5	1047.0	956.9	901.1	887.2	894.7	1015.9	1039.5	1074.9	1398.9
45°	1328.1	1313.1	1189.7	1109.3	1065.3	1050.3	1032.0	1142.5	1172.6	1184.4	1523.4
47.5°	1410.7	1400.0	1331.3	1276.6	1217.6	1201.5	1213.3	1318.5	1298.1	1307.7	1642.4
50°	1521.2	1493.3	1400.0	1417.2	1405.4	1401.1	1421.4	1467.6	1437.5	1409.6	1772.2
52.5°	1610.3	1560.9	1495.5	1537.3	1555.5	1571.6	1643.5	1677.8	1543.7	1500.8	1855.9
55°	1665.0	1617.8	1634.9	1673.6	1692.9	1766.9	1851.6	1825.9	1613.5	1573.8	1967.5
57.5°	1714.3	1717.5	1763.7	1775.5	1874.2	1887.0	2050.1	1966.4	1662.8	1640.3	2011.5
60°	1833.4	1821.6	1859.1	1935.3	2029.7	2101.6	2257.1	2060.8	1687.5	1674.6	1999.7
62.5°	2048.0	1975.0	1987.9	2084.4	2222.8	2301.1	2376.2	2103.7	1681.1	1680.0	1964.3
65°	2320.4	2236.8	2198.1	2288.3	2467.4	2577.9	2510.3	2152.0	1638.1	1668.2	1832.3
67.5°	2546.8	2547.9	2476.0	2526.4	2760.3	2783.9	2636.9	2142.4	1566.3	1574.9	1510.5
70°	2807.5	2842.9	2779.6	2937.3	3054.2	3069.3	2781.7	2063.0	1411.8	1187.6	867.9
72.5°	2874.0	2892.2	3089.6	3332.1	3464.0	3468.3	2924.4	1798.0	929.0	524.6	269.3
75°	2257.1	2274.3	2973.8	3510.2	3706.5	3668.9	2686.3	1167.2	361.5	153.4	64.4
77.5°	1259.5	1264.8	1846.3	2837.5	3144.3	2993.1	1881.7	454.9	145.9	88.0	30.0
80°	344.4	404.4	684.4	1398.9	1920.3	1884.9	895.8	148.0	94.4	68.7	13.9
82.5°	82.6	89.0	219.9	619.0	1014.9	1058.8	267.1	75.1	65.4	56.9	7.5
85°	30.0	33.3	67.6	301.5	521.4	478.5	80.5	37.5	48.3	44.0	3.2
87.5°	10.7	10.7	21.5	98.7	152.3	114.8	26.8	12.9	24.7	26.8	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°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	678.0	678.0	693.0	705.9	710.2	715.6	710.2	722.0	720.9	715.6	717.7
5°	679.1	698.4	711.3	719.8	724.1	723.1	725.2	712.3	704.8	699.5	694.1
7.5°	684.4	702.7	726.3	724.1	712.3	687.7	668.3	634.0	600.8	599.7	594.3
10°	702.7	718.8	732.7	724.1	681.2	606.1	545.0	498.8	457.0	437.7	439.8
12.5°	715.6	745.6	739.2	695.2	606.1	507.4	417.3	349.7	312.2	276.8	276.8
15°	742.4	753.1	751.0	653.3	513.9	395.9	286.4	217.8	178.1	162.0	159.8
17.5°	768.1	779.9	743.4	590.0	422.7	266.1	173.8	135.2	129.8	127.7	128.7
20°	800.3	801.4	737.0	526.7	317.5	168.4	124.4	121.2	122.3	121.2	121.2
22.5°	834.6	842.1	714.5	437.7	211.3	122.3	115.9	116.9	116.9	116.9	120.2
25°	879.7	867.9	679.1	352.9	138.4	112.6	112.6	113.7	113.7	113.7	114.8
27.5°	909.7	893.6	634.0	254.3	108.4	106.2	108.4	108.4	110.5	110.5	110.5
30°	971.9	930.1	577.2	164.1	97.6	100.8	103.0	105.1	106.2	108.4	109.4
32.5°	1020.2	962.3	506.4	109.4	89.0	91.2	96.6	100.8	105.1	104.1	104.1
35°	1108.2	1014.9	440.9	86.9	81.5	81.5	86.9	94.4	100.8	103.0	103.0
37.5°	1209.0	1057.8	349.7	79.4	75.1	75.1	78.3	86.9	95.5	99.8	97.6
40°	1292.7	1107.1	258.5	74.0	69.7	69.7	71.9	78.3	88.0	95.5	96.6
42.5°	1351.7	1143.6	174.9	68.7	65.4	64.4	67.6	70.8	78.3	89.0	91.2
45°	1405.4	1162.9	108.4	63.3	61.1	61.1	61.1	64.4	69.7	79.4	81.5
47.5°	1500.8	1184.4	78.3	59.0	55.8	56.9	57.9	59.0	63.3	65.4	66.5
50°	1581.3	1200.5	64.4	54.7	52.6	53.6	53.6	53.6	55.8	52.6	52.6
52.5°	1642.4	1184.4	54.7	50.4	48.3	49.3	48.3	48.3	46.1	41.8	41.8
55°	1687.5	1155.4	44.0	46.1	46.1	46.1	44.0	40.8	36.5	33.3	33.3
57.5°	1699.3	1106.0	34.3	38.6	41.8	41.8	37.5	33.3	27.9	24.7	23.6
60°	1681.1	998.8	25.7	27.9	32.2	33.3	30.0	24.7	19.3	16.1	16.1
62.5°	1615.6	914.0	20.4	18.2	23.6	24.7	21.5	16.1	10.7	7.5	6.4
65°	1491.2	783.1	15.0	12.9	16.1	17.2	13.9	7.5	3.2	1.1	0.0
67.5°	1196.2	590.0	9.7	8.6	10.7	10.7	6.4	2.1	0.0	0.0	0.0
70°	661.9	331.5	6.4	4.3	5.4	3.2	1.1	0.0	0.0	0.0	0.0
72.5°	191.0	94.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	51.5	22.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.5	8.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	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)