

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: P676911

Luminaire Tested: **CCW-SA-2A-835-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676911  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-835-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

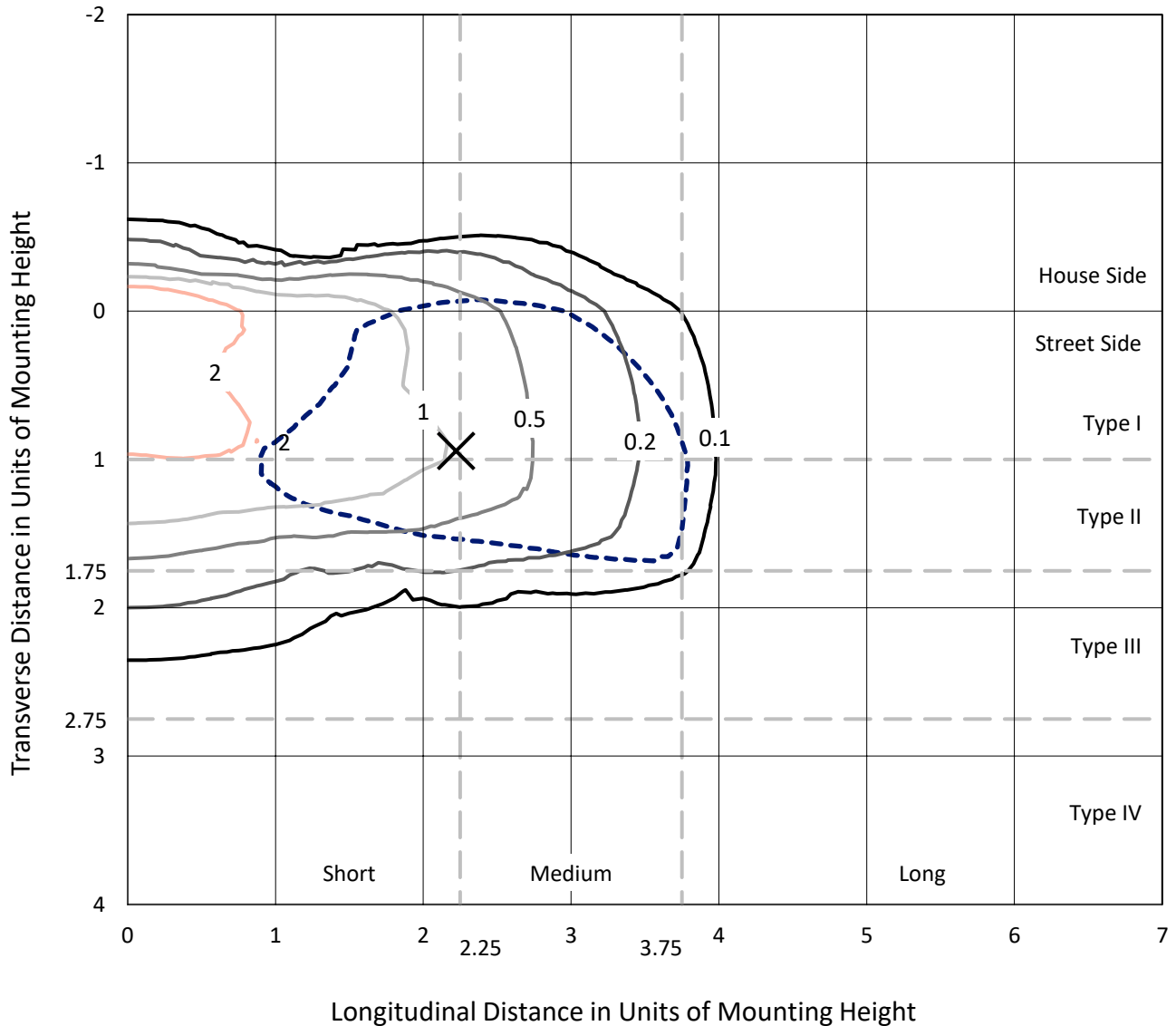
Lumens per Lamp: N/A  
Luminaire Lumens: 3625.6 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

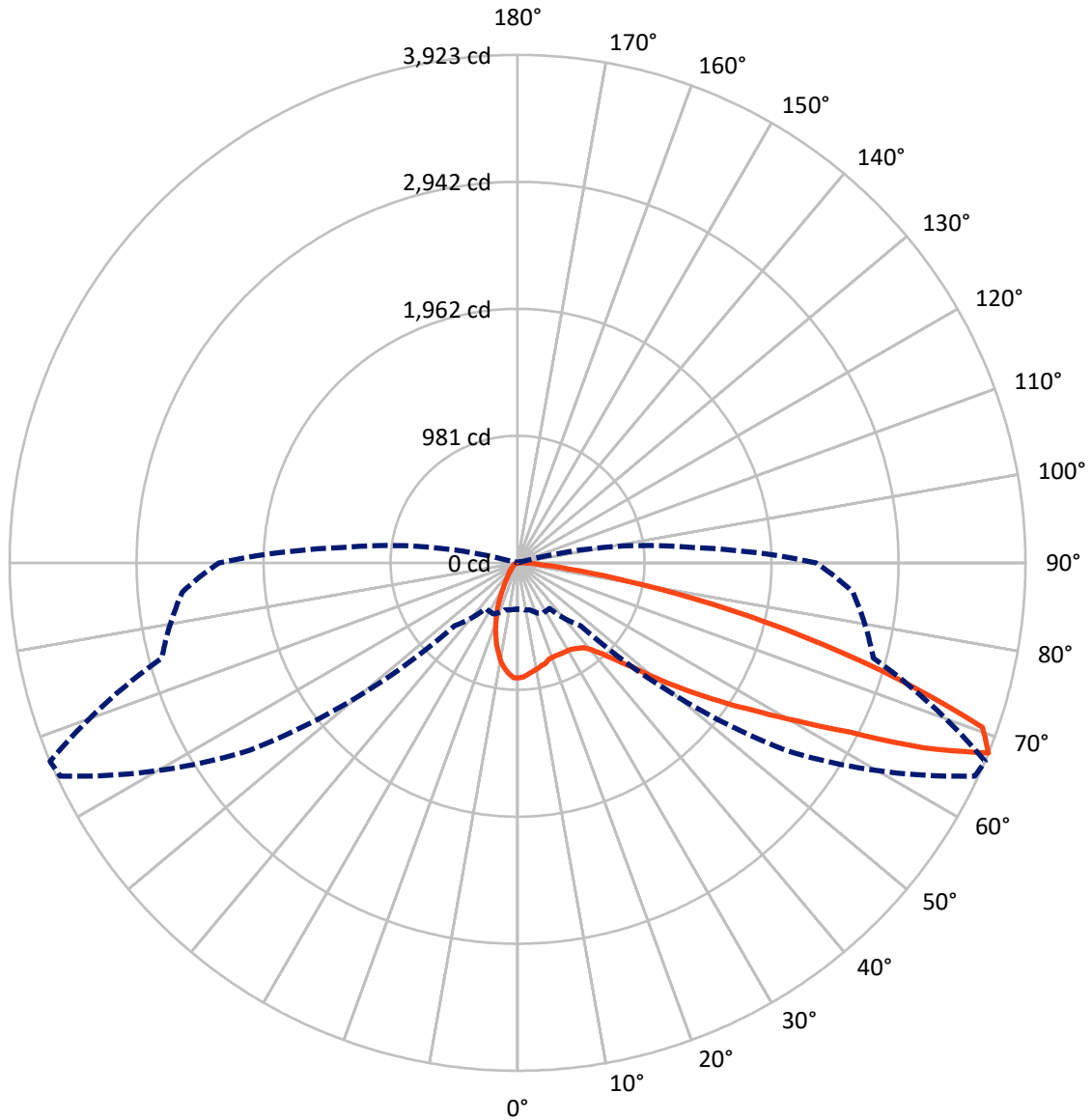
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	456.3	0.0	456.3
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	3169.3	0.0	3169.3
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	3625.6	0.0	3625.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	2.1
10°-20°	166.5	4.6
20°-30°	236.7	6.5
30°-40°	344.6	9.5
40°-50°	533.4	14.7
50°-60°	818.6	22.6
60°-70°	887.4	24.5
70°-80°	500.6	13.8
80°-90°	62.9	1.7
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°	3625.6	100.0
0°-180°	3625.6	100.0

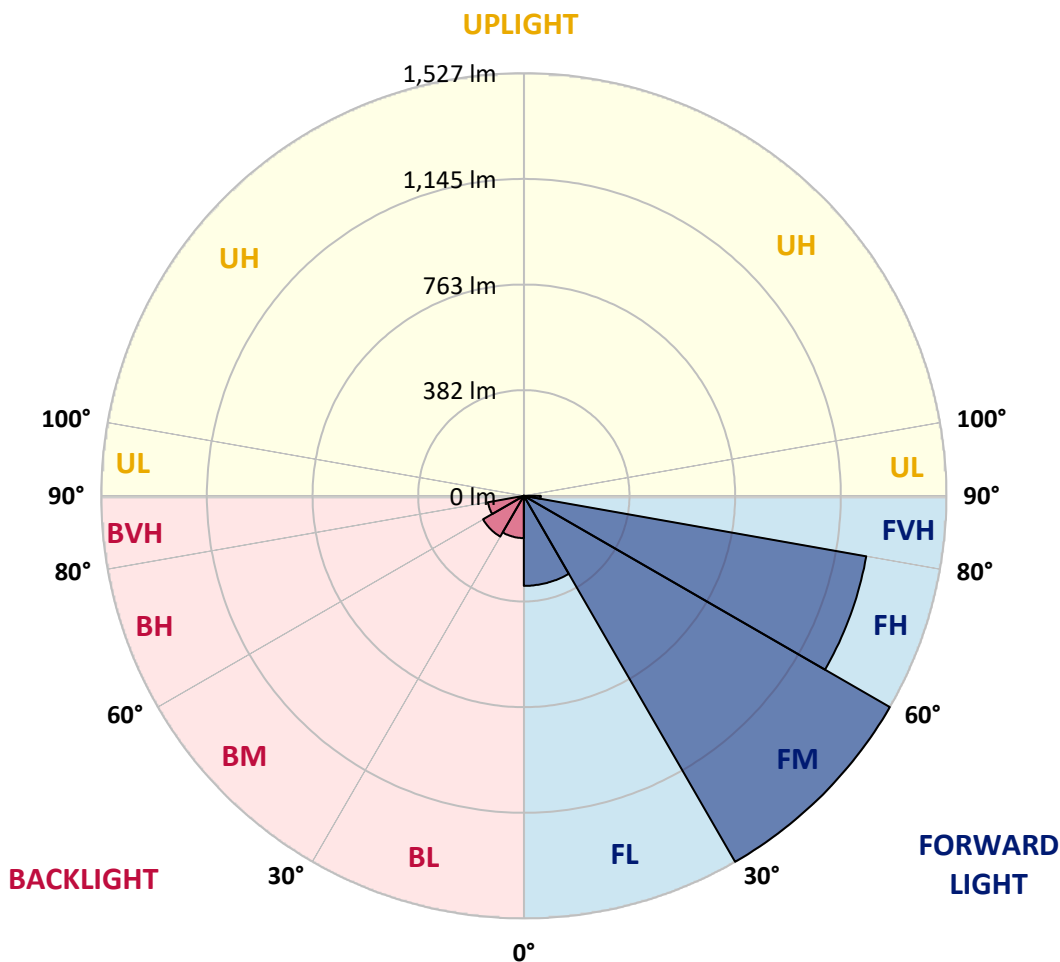


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.3	9.0			
FM (30°-60°)	1526.7	42.1			
FH (60°-80°)	1256.2	34.6			G1/1800
FVH (80°-90°)	61.1	1.7			G1/100
BL (0°-30°)	152.7	4.2	B1/500		
BM (30°-60°)	170.0	4.7	B0/220		
BH (60°-80°)	131.8	3.6	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	850.9	855.2	861.3	870.1	876.2	872.7	875.3	890.2	882.3	889.3	885.8
5°	803.7	808.1	816.8	815.9	822.9	836.0	853.5	872.7	864.0	884.9	892.8
7.5°	754.8	753.0	753.0	771.4	786.2	804.6	814.2	845.6	846.5	864.8	884.1
10°	710.2	715.5	724.2	731.2	745.2	771.4	799.3	823.8	833.4	870.1	875.3
12.5°	683.1	685.8	696.2	702.4	720.7	746.0	775.7	807.2	815.0	852.6	877.9
15°	671.8	677.9	681.4	692.7	702.4	725.9	747.8	783.6	806.3	836.0	867.5
17.5°	680.5	677.9	679.6	683.1	694.5	715.5	739.0	774.9	782.7	832.5	879.7
20°	691.9	692.7	687.5	685.8	683.1	703.2	722.4	768.7	777.5	832.5	887.6
22.5°	722.4	712.8	722.4	708.5	694.5	703.2	721.6	769.6	775.7	831.6	895.4
25°	760.0	761.8	764.4	734.7	714.6	708.5	727.7	772.2	777.5	838.6	898.9
27.5°	813.3	821.2	808.1	793.2	753.0	722.4	726.8	770.5	780.1	835.1	907.6
30°	884.9	878.8	880.6	846.5	807.2	759.1	746.9	774.9	781.9	839.5	924.2
32.5°	947.0	940.0	952.2	940.0	877.9	811.6	770.5	783.6	791.5	850.0	938.2
35°	985.4	994.1	1013.4	1026.5	974.0	879.7	809.8	807.2	810.7	855.2	948.7
37.5°	1044.8	1060.5	1076.2	1109.4	1064.0	963.6	871.8	837.8	831.6	880.6	953.9
40°	1109.4	1105.1	1151.4	1190.7	1188.9	1081.5	958.3	891.9	883.2	920.8	988.9
42.5°	1163.6	1159.2	1210.8	1275.4	1282.4	1195.1	1057.0	968.8	960.9	982.8	1031.7
45°	1234.4	1237.9	1299.0	1375.9	1401.2	1345.3	1190.7	1078.9	1074.5	1067.5	1112.9
47.5°	1297.3	1316.5	1368.9	1459.7	1551.5	1500.8	1347.9	1239.6	1209.0	1193.3	1238.7
50°	1340.9	1358.4	1422.2	1519.2	1686.9	1719.2	1524.4	1410.8	1411.7	1373.3	1397.7
52.5°	1340.9	1340.1	1391.6	1519.2	1781.2	1947.2	1760.3	1626.6	1633.6	1593.4	1595.2
55°	1211.7	1209.0	1271.9	1407.3	1770.7	2166.5	2117.6	1900.0	1882.6	1804.8	1812.7
57.5°	975.8	981.9	1029.9	1192.4	1634.5	2268.7	2543.0	2207.5	2148.1	1987.4	1987.4
60°	712.0	706.7	742.5	856.1	1309.5	2230.2	2892.4	2570.1	2476.6	2138.5	2115.8
62.5°	541.6	540.7	550.4	588.8	830.8	1944.6	3042.7	3031.3	2879.3	2287.0	2254.7
65°	437.7	439.4	452.5	479.6	507.5	1326.1	2963.2	3581.7	3442.8	2508.0	2402.3
67.5°	357.3	361.7	377.4	435.9	429.8	686.6	2523.8	3897.0	3923.2	2845.2	2600.6
70°	275.2	282.2	300.5	383.5	414.1	456.9	1749.8	3739.8	3809.7	3054.9	2481.0
72.5°	186.9	186.1	225.4	311.0	418.4	418.4	974.0	3012.1	3078.5	2816.4	2155.1
75°	101.3	107.5	149.4	235.0	383.5	404.5	554.7	2204.0	2297.5	2190.1	1666.8
77.5°	55.0	55.9	83.0	153.7	318.9	386.1	370.4	1499.1	1535.7	1320.8	912.9
80°	28.8	29.7	43.7	100.5	220.1	358.2	308.4	893.7	858.7	506.7	301.4
82.5°	13.1	14.0	21.8	62.9	140.6	282.2	266.4	431.5	398.4	141.5	91.7
85°	5.2	5.2	9.6	37.6	82.1	138.9	228.0	216.6	180.8	42.8	45.4
87.5°	1.7	1.7	2.6	14.9	33.2	83.0	121.4	114.4	78.6	15.7	24.5
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°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	882.3	891.9	889.3	887.6	871.0	869.2	867.5	851.7	857.0	843.9	852.6
5°	887.6	892.8	878.8	852.6	829.0	802.8	782.7	768.7	743.4	733.8	732.1
7.5°	882.3	882.3	853.5	811.6	765.3	722.4	668.3	629.8	601.0	579.2	587.0
10°	875.3	864.8	835.1	760.9	677.0	612.4	534.6	477.8	435.0	421.1	412.3
12.5°	875.3	857.0	790.6	689.3	580.9	483.1	390.5	316.2	275.2	250.7	247.2
15°	867.5	840.4	758.3	622.0	487.5	354.7	249.0	185.2	150.3	140.6	137.2
17.5°	869.2	836.9	710.2	542.5	378.3	235.9	152.0	117.1	108.3	104.0	104.8
20°	872.7	836.9	667.4	464.7	272.6	146.8	104.8	98.7	94.3	92.6	93.5
22.5°	884.1	820.3	623.7	385.2	184.3	105.7	92.6	86.5	83.0	80.4	79.5
25°	885.8	817.7	581.8	306.6	126.7	89.1	81.2	74.3	69.9	66.4	65.5
27.5°	883.2	806.3	523.3	228.0	95.2	79.5	69.0	62.0	55.9	53.3	52.4
30°	892.8	785.3	473.5	164.2	80.4	69.0	58.5	50.7	45.4	41.9	41.9
32.5°	893.7	767.0	418.4	117.1	73.4	61.2	49.8	41.1	35.8	34.1	34.1
35°	894.5	750.4	357.3	89.1	65.5	52.4	41.1	34.1	30.6	28.0	28.0
37.5°	897.2	738.2	301.4	75.1	58.5	44.6	34.1	28.0	24.5	23.6	23.6
40°	902.4	721.6	242.9	66.4	50.7	37.6	28.8	23.6	20.1	19.2	18.3
42.5°	916.4	717.2	193.9	59.4	45.4	31.4	23.6	19.2	16.6	14.9	14.0
45°	974.0	728.6	150.3	55.0	38.4	26.2	20.1	15.7	12.2	11.4	10.5
47.5°	1068.4	766.1	118.8	48.9	32.3	21.8	16.6	12.2	9.6	8.7	7.9
50°	1211.7	851.7	97.0	43.7	27.1	18.3	13.1	9.6	7.0	6.1	6.1
52.5°	1399.5	967.1	83.9	38.4	21.8	15.7	10.5	7.0	5.2	4.4	4.4
55°	1591.7	1103.3	78.6	33.2	18.3	13.1	7.9	5.2	3.5	2.6	2.6
57.5°	1768.1	1191.6	76.0	27.1	15.7	9.6	6.1	3.5	1.7	0.9	0.9
60°	1878.2	1256.2	68.1	21.8	12.2	7.9	4.4	1.7	0.9	0.0	0.0
62.5°	2023.2	1321.7	55.9	16.6	8.7	5.2	2.6	0.9	0.0	0.0	0.0
65°	2214.5	1395.1	43.7	13.1	7.0	3.5	1.7	0.9	0.0	0.0	0.0
67.5°	2306.2	1356.7	29.7	9.6	4.4	1.7	0.9	0.0	0.0	0.0	0.0
70°	2122.8	1142.6	21.0	7.0	2.6	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1784.7	895.4	15.7	4.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0
75°	1315.6	560.0	12.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	698.0	208.8	8.7	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.2	61.2	6.1	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.1	18.3	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.9	7.0	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	2.6	1.7	1.7	0.9	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)