

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: P676856

Luminaire Tested: **CCW-SA-2A-740-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676856
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

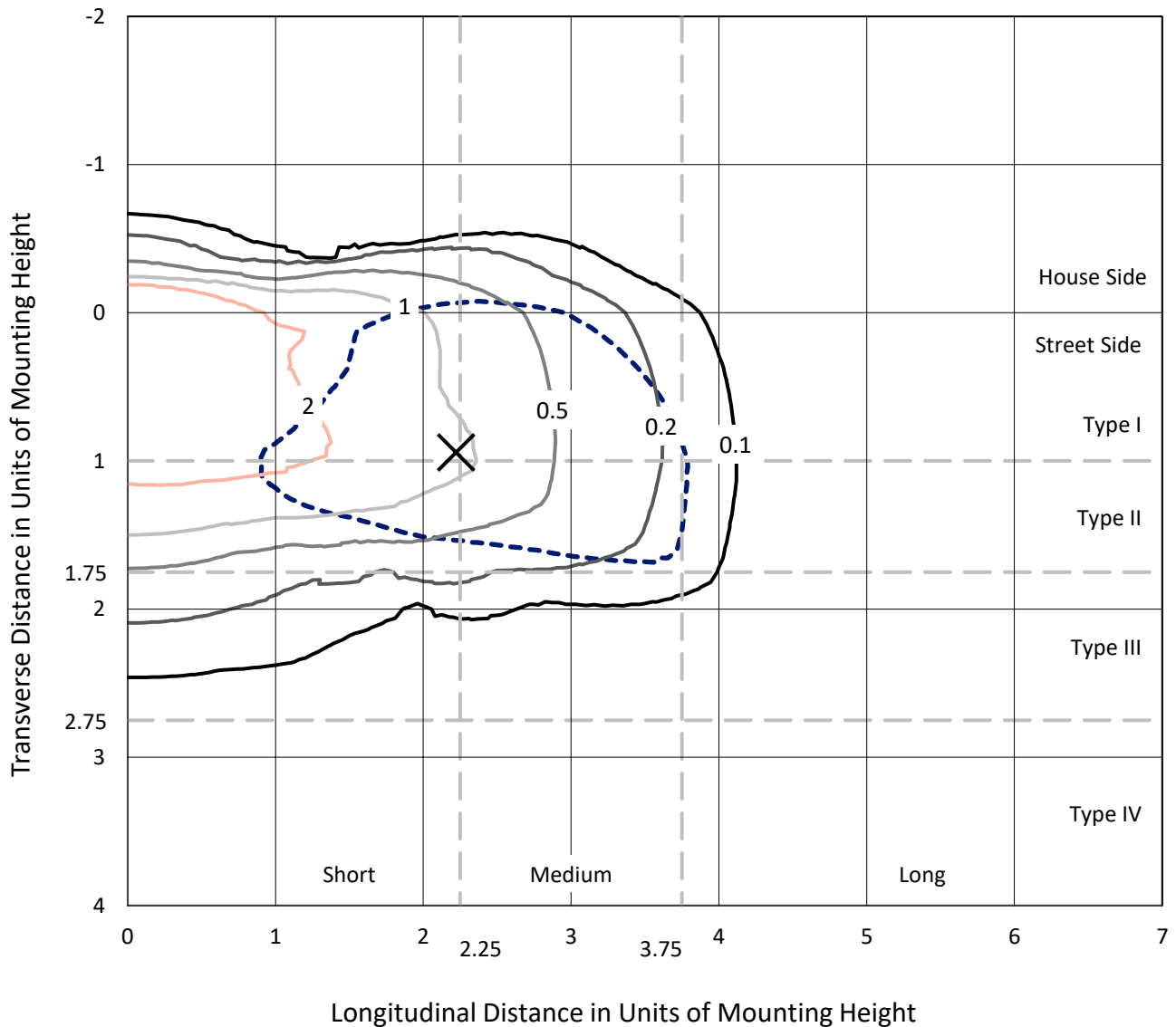
Lumens per Lamp: N/A
Luminaire Lumens: 4400.1 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

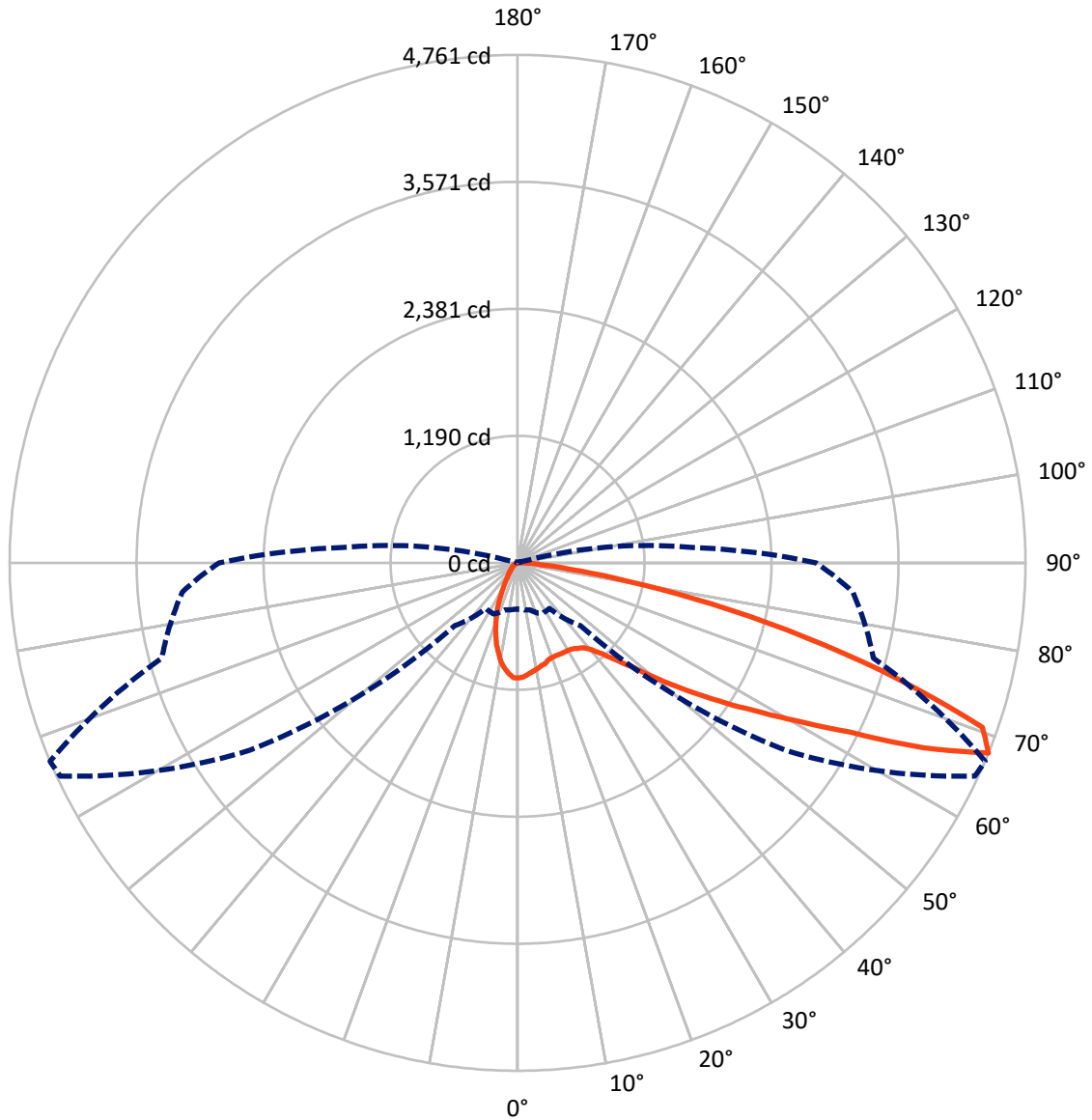
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	553.8	0.0	553.8
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3846.3	0.0	3846.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	4400.1	0.0	4400.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	2.1
10°-20°	202.0	4.6
20°-30°	287.2	6.5
30°-40°	418.3	9.5
40°-50°	647.3	14.7
50°-60°	993.5	22.6
60°-70°	1076.9	24.5
70°-80°	607.6	13.8
80°-90°	76.3	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°	4400.1	100.0
0°-180°	4400.1	100.0

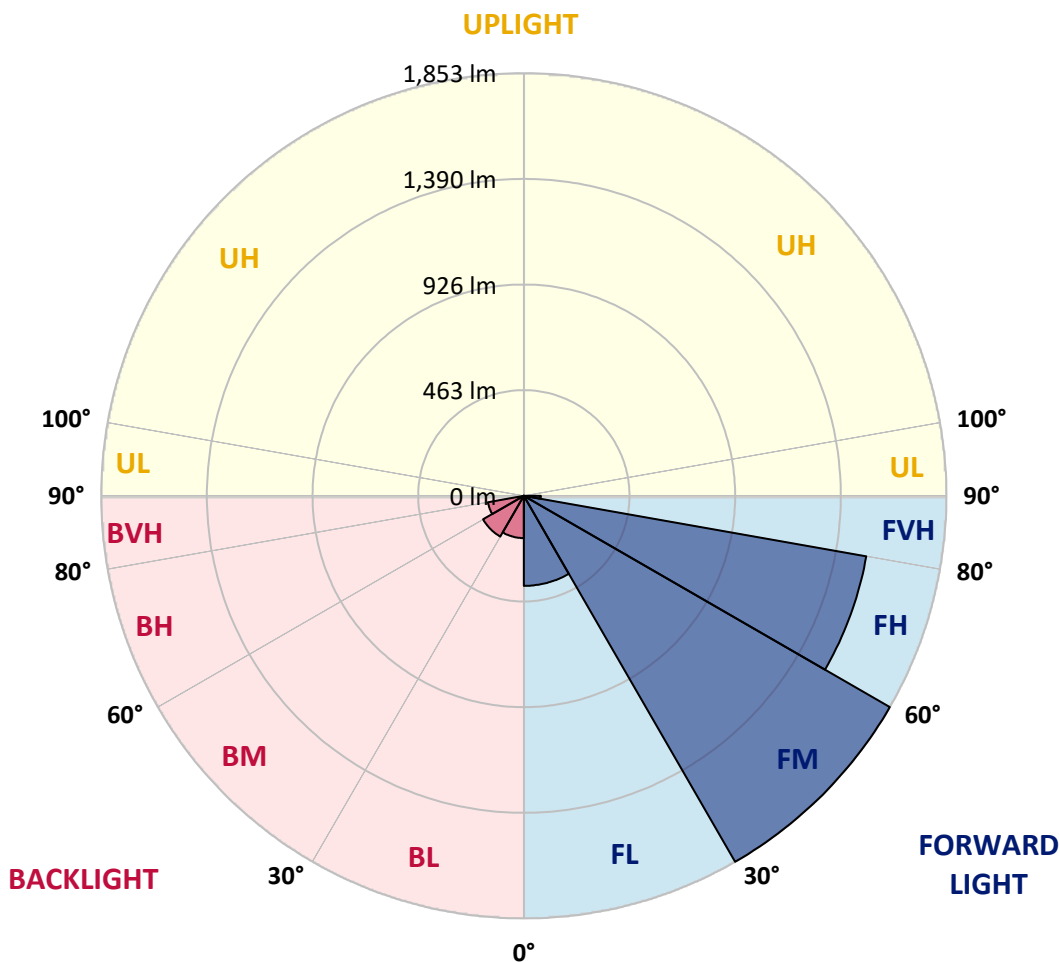


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.8	9.0			
FM (30°-60°)	1852.8	42.1			
FH (60°-80°)	1524.5	34.6			G1/1800
FVH (80°-90°)	74.1	1.7			G1/100
BL (0°-30°)	185.4	4.2	B1/500		
BM (30°-60°)	206.3	4.7	B0/220		
BH (60°-80°)	160.0	3.6	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3
2.5°	1032.6	1037.9	1045.3	1055.9	1063.3	1059.1	1062.3	1080.3	1070.8	1079.3	1075.0
5°	975.4	980.7	991.3	990.2	998.7	1014.6	1035.8	1059.1	1048.5	1073.9	1083.5
7.5°	916.0	913.9	913.9	936.1	954.2	976.4	988.1	1026.2	1027.3	1049.6	1072.9
10°	861.9	868.3	878.9	887.4	904.3	936.1	970.1	999.7	1011.4	1055.9	1062.3
12.5°	829.1	832.2	845.0	852.4	874.6	905.4	941.4	979.6	989.1	1034.7	1065.5
15°	815.3	822.7	826.9	840.7	852.4	881.0	907.5	951.0	978.5	1014.6	1052.7
17.5°	825.9	822.7	824.8	829.1	842.8	868.3	896.9	940.4	949.9	1010.3	1067.6
20°	839.7	840.7	834.4	832.2	829.1	853.4	876.8	932.9	943.5	1010.3	1077.1
22.5°	876.8	865.1	876.8	859.8	842.8	853.4	875.7	934.0	941.4	1009.3	1086.7
25°	922.3	924.5	927.6	891.6	867.2	859.8	883.1	937.2	943.5	1017.8	1090.9
27.5°	987.0	996.6	980.7	962.6	913.9	876.8	882.1	935.1	946.7	1013.5	1101.5
30°	1073.9	1066.5	1068.6	1027.3	979.6	921.3	906.4	940.4	948.8	1018.8	1121.7
32.5°	1149.2	1140.7	1155.6	1140.7	1065.5	984.9	935.1	951.0	960.5	1031.5	1138.6
35°	1195.9	1206.5	1229.8	1245.7	1182.1	1067.6	982.8	979.6	983.8	1037.9	1151.3
37.5°	1268.0	1287.0	1306.1	1346.4	1291.3	1169.4	1058.0	1016.7	1009.3	1068.6	1157.7
40°	1346.4	1341.1	1397.3	1445.0	1442.9	1312.5	1163.0	1082.4	1071.8	1117.4	1200.1
42.5°	1412.1	1406.8	1469.4	1547.8	1556.3	1450.3	1282.8	1175.7	1166.2	1192.7	1252.1
45°	1498.0	1502.3	1576.5	1669.8	1700.5	1632.7	1445.0	1309.3	1304.0	1295.5	1350.7
47.5°	1574.3	1597.7	1661.3	1771.5	1882.9	1821.4	1635.8	1504.4	1467.3	1448.2	1503.3
50°	1627.4	1648.6	1726.0	1843.6	2047.2	2086.4	1850.0	1712.2	1713.2	1666.6	1696.3
52.5°	1627.4	1626.3	1688.8	1843.6	2161.7	2363.1	2136.2	1974.0	1982.5	1933.7	1935.9
55°	1470.5	1467.3	1543.6	1707.9	2149.0	2629.2	2569.8	2305.9	2284.7	2190.3	2199.8
57.5°	1184.2	1191.6	1249.9	1447.1	1983.6	2753.3	3086.1	2679.0	2607.0	2411.9	2411.9
60°	864.0	857.7	901.1	1039.0	1589.2	2706.6	3510.2	3119.0	3005.6	2595.3	2567.7
62.5°	657.3	656.2	667.9	714.6	1008.2	2359.9	3692.6	3678.8	3494.3	2775.5	2736.3
65°	531.1	533.3	549.2	582.0	616.0	1609.3	3596.1	4346.7	4178.1	3043.7	2915.5
67.5°	433.6	438.9	458.0	529.0	521.6	833.3	3062.8	4729.4	4761.2	3453.0	3156.1
70°	334.0	342.4	364.7	465.4	502.5	554.5	2123.5	4538.6	4623.4	3707.4	3010.9
72.5°	226.9	225.8	273.5	377.4	507.8	507.8	1182.1	3655.5	3736.0	3418.0	2615.4
75°	123.0	130.4	181.3	285.2	465.4	490.9	673.2	2674.8	2788.2	2657.8	2022.8
77.5°	66.8	67.9	100.7	186.6	387.0	468.6	449.5	1819.2	1863.8	1603.0	1107.9
80°	35.0	36.0	53.0	121.9	267.2	434.7	374.2	1084.6	1042.1	614.9	365.8
82.5°	15.9	17.0	26.5	76.3	170.7	342.4	323.4	523.7	483.4	171.7	111.3
85°	6.4	6.4	11.7	45.6	99.7	168.6	276.7	262.9	219.5	51.9	55.1
87.5°	2.1	2.1	3.2	18.0	40.3	100.7	147.4	138.9	95.4	19.1	29.7
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°	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3	1079.3
2.5°	1070.8	1082.4	1079.3	1077.1	1057.0	1054.9	1052.7	1033.7	1040.0	1024.1	1034.7
5°	1077.1	1083.5	1066.5	1034.7	1006.1	974.3	949.9	932.9	902.2	890.5	888.4
7.5°	1070.8	1070.8	1035.8	984.9	928.7	876.8	811.0	764.4	729.4	702.9	712.4
10°	1062.3	1049.6	1013.5	923.4	821.6	743.2	648.8	579.9	528.0	511.0	500.4
12.5°	1062.3	1040.0	959.5	836.5	705.0	586.3	473.9	383.8	334.0	304.3	300.0
15°	1052.7	1019.9	920.2	754.8	591.6	430.4	302.1	224.8	182.3	170.7	166.4
17.5°	1054.9	1015.6	861.9	658.4	459.1	286.2	184.5	142.1	131.5	126.2	127.2
20°	1059.1	1015.6	810.0	564.0	330.8	178.1	127.2	119.8	114.5	112.4	113.4
22.5°	1072.9	995.5	757.0	467.5	223.7	128.3	112.4	105.0	100.7	97.5	96.5
25°	1075.0	992.3	706.1	372.1	153.7	108.1	98.6	90.1	84.8	80.6	79.5
27.5°	1071.8	978.5	635.0	276.7	115.6	96.5	83.8	75.3	67.9	64.7	63.6
30°	1083.5	953.1	574.6	199.3	97.5	83.8	71.0	61.5	55.1	50.9	50.9
32.5°	1084.6	930.8	507.8	142.1	89.1	74.2	60.4	49.8	43.5	41.3	41.3
35°	1085.6	910.7	433.6	108.1	79.5	63.6	49.8	41.3	37.1	33.9	33.9
37.5°	1088.8	895.8	365.8	91.2	71.0	54.1	41.3	33.9	29.7	28.6	28.6
40°	1095.2	875.7	294.7	80.6	61.5	45.6	35.0	28.6	24.4	23.3	22.3
42.5°	1112.1	870.4	235.4	72.1	55.1	38.2	28.6	23.3	20.1	18.0	17.0
45°	1182.1	884.2	182.3	66.8	46.6	31.8	24.4	19.1	14.8	13.8	12.7
47.5°	1296.6	929.8	144.2	59.4	39.2	26.5	20.1	14.8	11.7	10.6	9.5
50°	1470.5	1033.7	117.7	53.0	32.9	22.3	15.9	11.7	8.5	7.4	7.4
52.5°	1698.4	1173.6	101.8	46.6	26.5	19.1	12.7	8.5	6.4	5.3	5.3
55°	1931.6	1339.0	95.4	40.3	22.3	15.9	9.5	6.4	4.2	3.2	3.2
57.5°	2145.8	1446.1	92.2	32.9	19.1	11.7	7.4	4.2	2.1	1.1	1.1
60°	2279.4	1524.5	82.7	26.5	14.8	9.5	5.3	2.1	1.1	0.0	0.0
62.5°	2455.3	1604.0	67.9	20.1	10.6	6.4	3.2	1.1	0.0	0.0	0.0
65°	2687.5	1693.1	53.0	15.9	8.5	4.2	2.1	1.1	0.0	0.0	0.0
67.5°	2798.8	1646.4	36.0	11.7	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2576.2	1386.7	25.4	8.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2165.9	1086.7	19.1	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1596.6	679.6	14.8	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	847.1	253.4	10.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	250.2	74.2	7.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.7	22.3	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	8.5	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	3.2	2.1	2.1	1.1	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)