

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: P676898

Luminaire Tested: **CCW-SA-1E-830-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676898
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

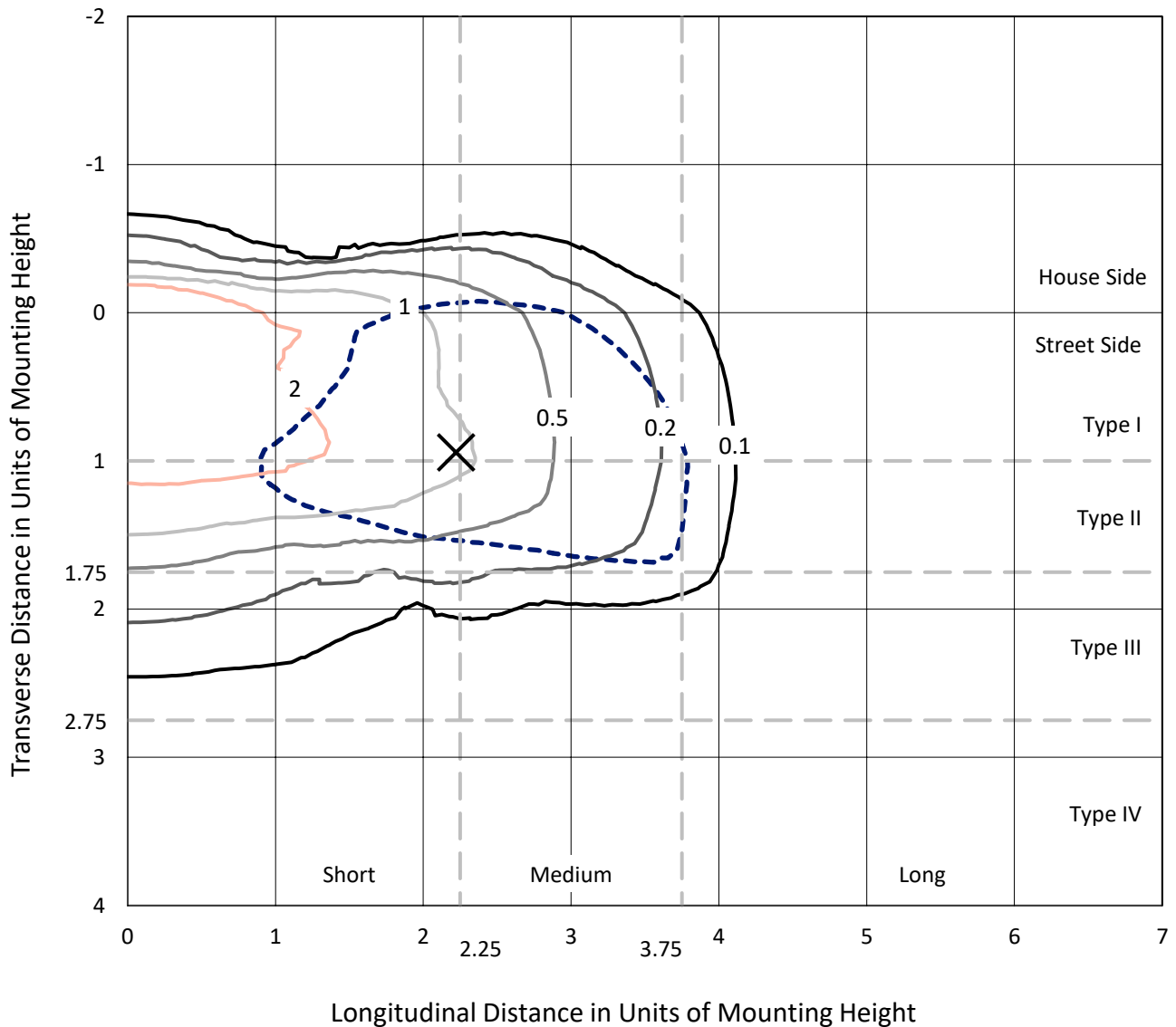
Lumens per Lamp: N/A
Luminaire Lumens: 4368.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

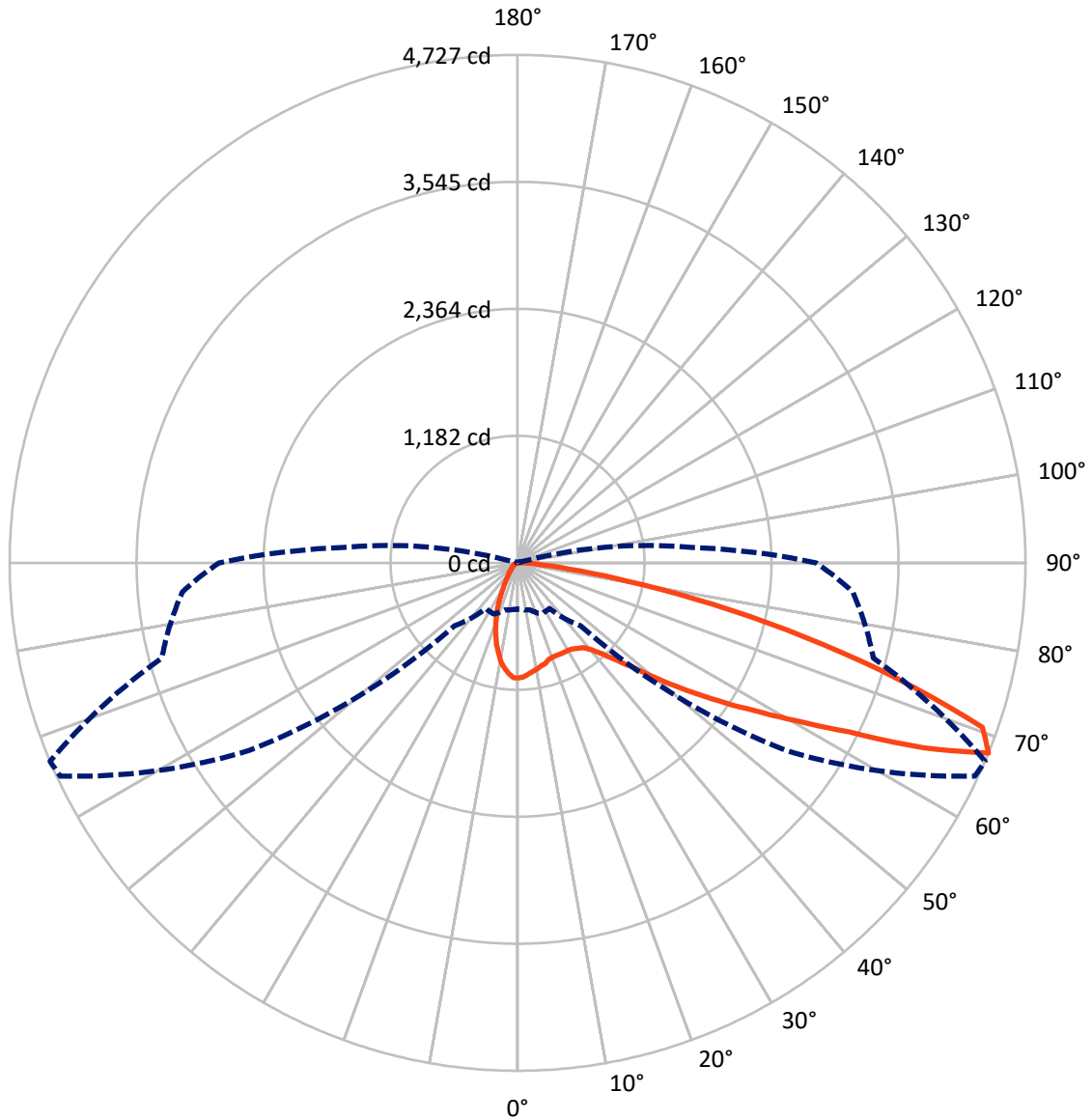
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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	549.8	0.0	549.8
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3818.9	0.0	3818.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	4368.8	0.0	4368.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	2.1
10°-20°	200.6	4.6
20°-30°	285.2	6.5
30°-40°	415.3	9.5
40°-50°	642.7	14.7
50°-60°	986.4	22.6
60°-70°	1069.3	24.5
70°-80°	603.2	13.8
80°-90°	75.8	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°	4368.8	100.0
0°-180°	4368.8	100.0

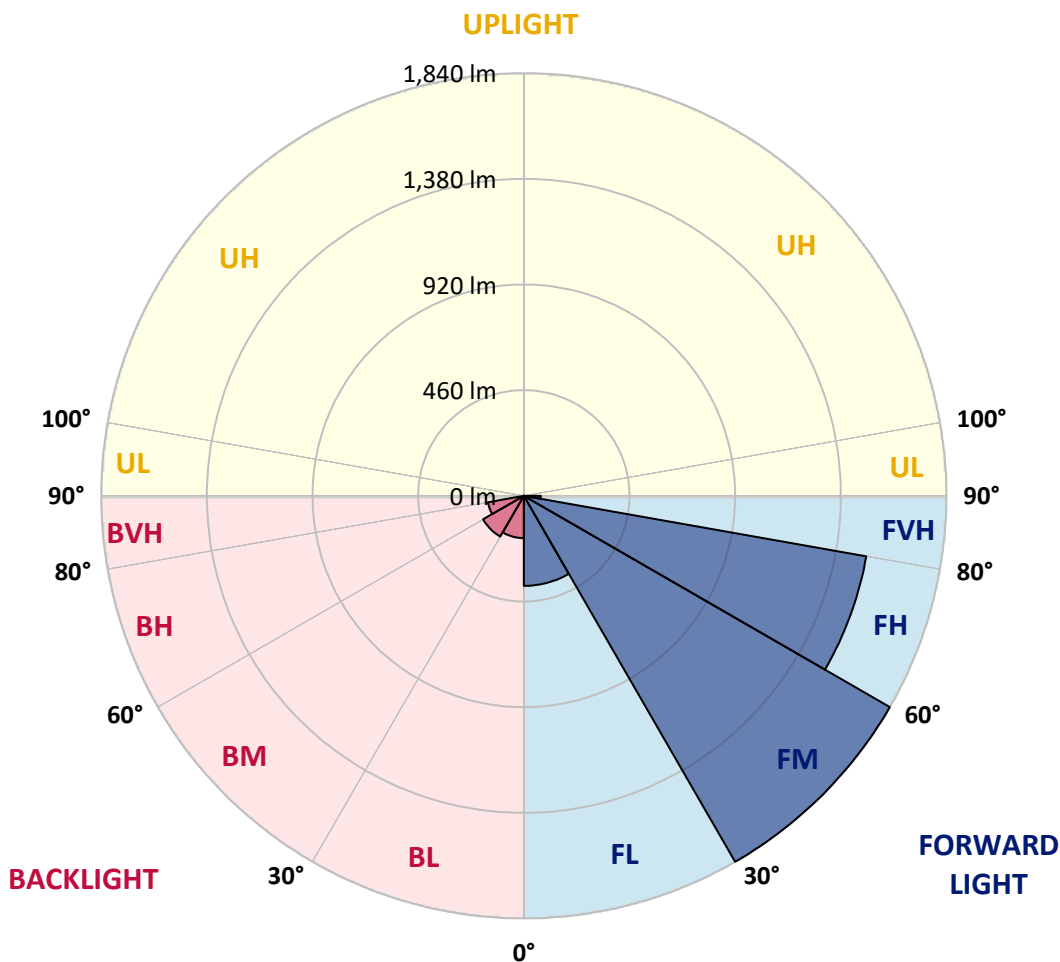


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.0	9.0			
FM (30°-60°)	1839.6	42.1			
FH (60°-80°)	1513.7	34.6			G1/1800
FVH (80°-90°)	73.6	1.7			G1/100
BL (0°-30°)	184.0	4.2	B1/500		
BM (30°-60°)	204.8	4.7	B0/220		
BH (60°-80°)	158.8	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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1025.3	1030.5	1037.9	1048.4	1055.8	1051.6	1054.7	1072.6	1063.2	1071.6	1067.4
5°	968.4	973.7	984.2	983.2	991.6	1007.4	1028.4	1051.6	1041.0	1066.3	1075.8
7.5°	909.5	907.4	907.4	929.5	947.4	969.5	981.0	1018.9	1020.0	1042.1	1065.3
10°	855.8	862.1	872.6	881.0	897.9	929.5	963.2	992.6	1004.2	1048.4	1054.7
12.5°	823.2	826.3	838.9	846.3	868.4	898.9	934.7	972.6	982.1	1027.4	1057.9
15°	809.5	816.8	821.0	834.7	846.3	874.7	901.0	944.2	971.6	1007.4	1045.3
17.5°	820.0	816.8	818.9	823.2	836.8	862.1	890.5	933.7	943.2	1003.2	1060.0
20°	833.7	834.7	828.4	826.3	823.2	847.4	870.5	926.3	936.8	1003.2	1069.5
22.5°	870.5	858.9	870.5	853.7	836.8	847.4	869.5	927.4	934.7	1002.1	1078.9
25°	915.8	917.9	921.0	885.3	861.0	853.7	876.8	930.5	936.8	1010.5	1083.2
27.5°	980.0	989.5	973.7	955.8	907.4	870.5	875.8	928.4	940.0	1006.3	1093.7
30°	1066.3	1058.9	1061.0	1020.0	972.6	914.7	900.0	933.7	942.1	1011.6	1113.7
32.5°	1141.0	1132.6	1147.4	1132.6	1057.9	977.9	928.4	944.2	953.7	1024.2	1130.5
35°	1187.4	1197.9	1221.0	1236.8	1173.7	1060.0	975.8	972.6	976.8	1030.5	1143.2
37.5°	1258.9	1277.9	1296.8	1336.8	1282.1	1161.0	1050.5	1009.5	1002.1	1061.0	1149.5
40°	1336.8	1331.6	1387.4	1434.7	1432.6	1303.1	1154.7	1074.7	1064.2	1109.5	1191.6
42.5°	1402.1	1396.8	1458.9	1536.8	1545.3	1440.0	1273.7	1167.4	1157.9	1184.2	1243.2
45°	1487.4	1491.6	1565.3	1657.9	1688.4	1621.0	1434.7	1300.0	1294.7	1286.3	1341.0
47.5°	1563.1	1586.3	1649.5	1758.9	1869.5	1808.4	1624.2	1493.7	1456.8	1437.9	1492.6
50°	1615.8	1636.8	1713.7	1830.5	2032.6	2071.6	1836.8	1700.0	1701.0	1654.7	1684.2
52.5°	1615.8	1614.7	1676.8	1830.5	2146.3	2346.3	2121.0	1960.0	1968.4	1920.0	1922.1
55°	1460.0	1456.8	1532.6	1695.8	2133.7	2610.5	2551.6	2289.5	2268.4	2174.7	2184.2
57.5°	1175.8	1183.2	1241.0	1436.8	1969.5	2733.7	3064.2	2660.0	2588.4	2394.7	2394.7
60°	857.9	851.6	894.7	1031.6	1577.9	2687.4	3485.2	3096.8	2984.2	2576.8	2549.5
62.5°	652.6	651.6	663.2	709.5	1001.0	2343.1	3666.3	3652.6	3469.5	2755.8	2716.8
65°	527.4	529.5	545.3	577.9	611.6	1597.9	3570.5	4315.8	4148.4	3022.1	2894.7
67.5°	430.5	435.8	454.7	525.3	517.9	827.4	3041.0	4695.8	4727.3	3428.4	3133.7
70°	331.6	340.0	362.1	462.1	498.9	550.5	2108.4	4506.3	4590.5	3681.0	2989.5
72.5°	225.3	224.2	271.6	374.7	504.2	504.2	1173.7	3629.5	3709.5	3393.7	2596.8
75°	122.1	129.5	180.0	283.2	462.1	487.4	668.4	2655.8	2768.4	2638.9	2008.4
77.5°	66.3	67.4	100.0	185.3	384.2	465.3	446.3	1806.3	1850.5	1591.6	1100.0
80°	34.7	35.8	52.6	121.1	265.3	431.6	371.6	1076.8	1034.7	610.5	363.2
82.5°	15.8	16.8	26.3	75.8	169.5	340.0	321.1	520.0	480.0	170.5	110.5
85°	6.3	6.3	11.6	45.3	98.9	167.4	274.7	261.1	217.9	51.6	54.7
87.5°	2.1	2.1	3.2	17.9	40.0	100.0	146.3	137.9	94.7	18.9	29.5
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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1063.2	1074.7	1071.6	1069.5	1049.5	1047.4	1045.3	1026.3	1032.6	1016.8	1027.4
5°	1069.5	1075.8	1058.9	1027.4	998.9	967.4	943.2	926.3	895.8	884.2	882.1
7.5°	1063.2	1063.2	1028.4	977.9	922.1	870.5	805.3	758.9	724.2	697.9	707.4
10°	1054.7	1042.1	1006.3	916.8	815.8	737.9	644.2	575.8	524.2	507.4	496.8
12.5°	1054.7	1032.6	952.6	830.5	700.0	582.1	470.5	381.1	331.6	302.1	297.9
15°	1045.3	1012.6	913.7	749.5	587.4	427.4	300.0	223.2	181.1	169.5	165.3
17.5°	1047.4	1008.4	855.8	653.7	455.8	284.2	183.2	141.1	130.5	125.3	126.3
20°	1051.6	1008.4	804.2	560.0	328.4	176.8	126.3	118.9	113.7	111.6	112.6
22.5°	1065.3	988.4	751.6	464.2	222.1	127.4	111.6	104.2	100.0	96.8	95.8
25°	1067.4	985.3	701.0	369.5	152.6	107.4	97.9	89.5	84.2	80.0	78.9
27.5°	1064.2	971.6	630.5	274.7	114.7	95.8	83.2	74.7	67.4	64.2	63.2
30°	1075.8	946.3	570.5	197.9	96.8	83.2	70.5	61.1	54.7	50.5	50.5
32.5°	1076.8	924.2	504.2	141.1	88.4	73.7	60.0	49.5	43.2	41.1	41.1
35°	1077.9	904.2	430.5	107.4	78.9	63.2	49.5	41.1	36.8	33.7	33.7
37.5°	1081.0	889.5	363.2	90.5	70.5	53.7	41.1	33.7	29.5	28.4	28.4
40°	1087.4	869.5	292.6	80.0	61.1	45.3	34.7	28.4	24.2	23.2	22.1
42.5°	1104.2	864.2	233.7	71.6	54.7	37.9	28.4	23.2	20.0	17.9	16.8
45°	1173.7	877.9	181.1	66.3	46.3	31.6	24.2	18.9	14.7	13.7	12.6
47.5°	1287.4	923.2	143.2	58.9	38.9	26.3	20.0	14.7	11.6	10.5	9.5
50°	1460.0	1026.3	116.8	52.6	32.6	22.1	15.8	11.6	8.4	7.4	7.4
52.5°	1686.3	1165.3	101.1	46.3	26.3	18.9	12.6	8.4	6.3	5.3	5.3
55°	1917.9	1329.5	94.7	40.0	22.1	15.8	9.5	6.3	4.2	3.2	3.2
57.5°	2130.5	1435.8	91.6	32.6	18.9	11.6	7.4	4.2	2.1	1.1	1.1
60°	2263.1	1513.7	82.1	26.3	14.7	9.5	5.3	2.1	1.1	0.0	0.0
62.5°	2437.9	1592.6	67.4	20.0	10.5	6.3	3.2	1.1	0.0	0.0	0.0
65°	2668.4	1681.0	52.6	15.8	8.4	4.2	2.1	1.1	0.0	0.0	0.0
67.5°	2778.9	1634.7	35.8	11.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2557.9	1376.8	25.3	8.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2150.5	1078.9	18.9	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1585.3	674.7	14.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	841.0	251.6	10.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	248.4	73.7	7.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.1	22.1	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.1	8.4	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.2	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)