

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: P677175

Luminaire Tested: **CCW-SA-1E-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677175
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

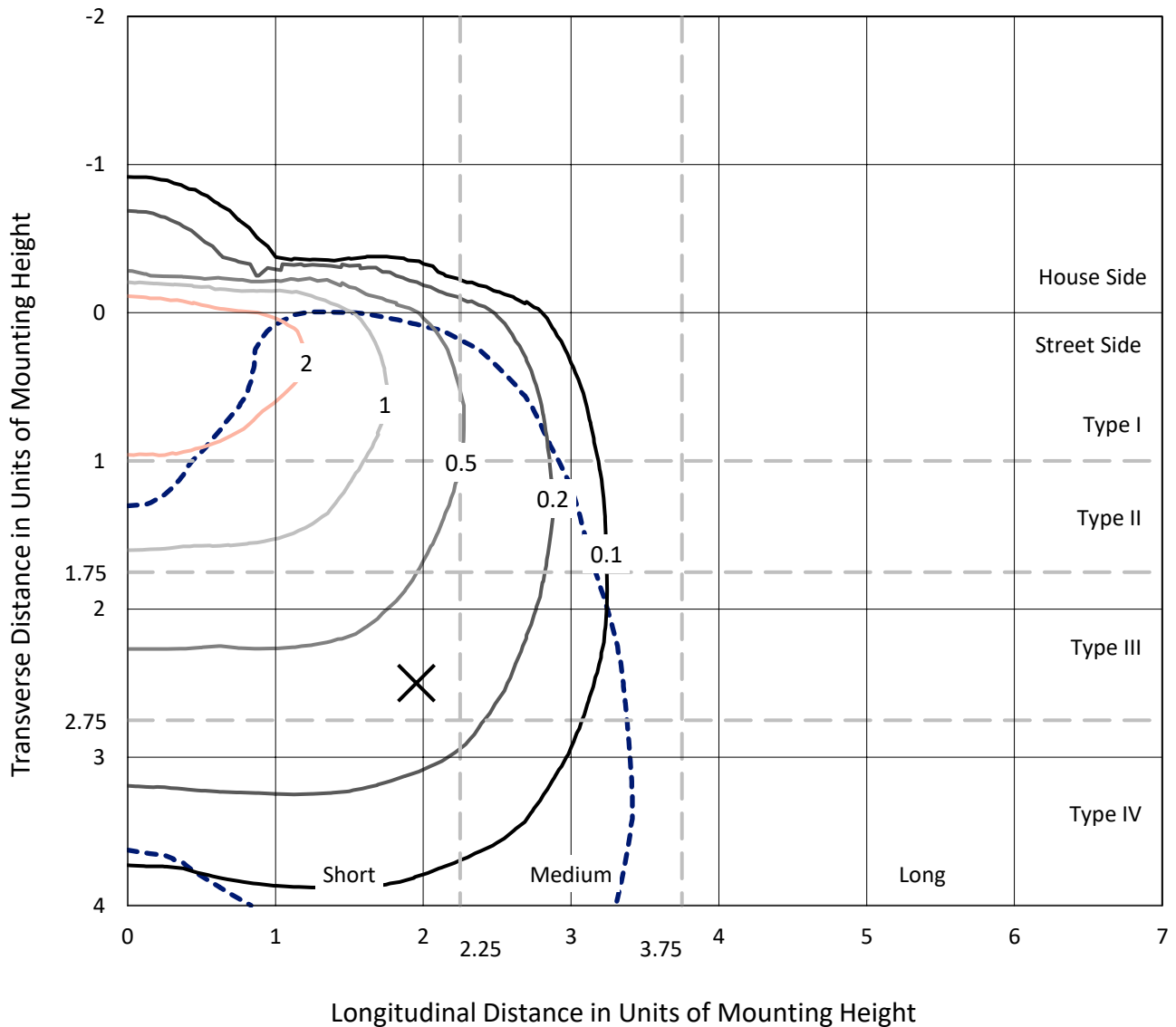
Lumens per Lamp: N/A
Luminaire Lumens: 4151.5 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

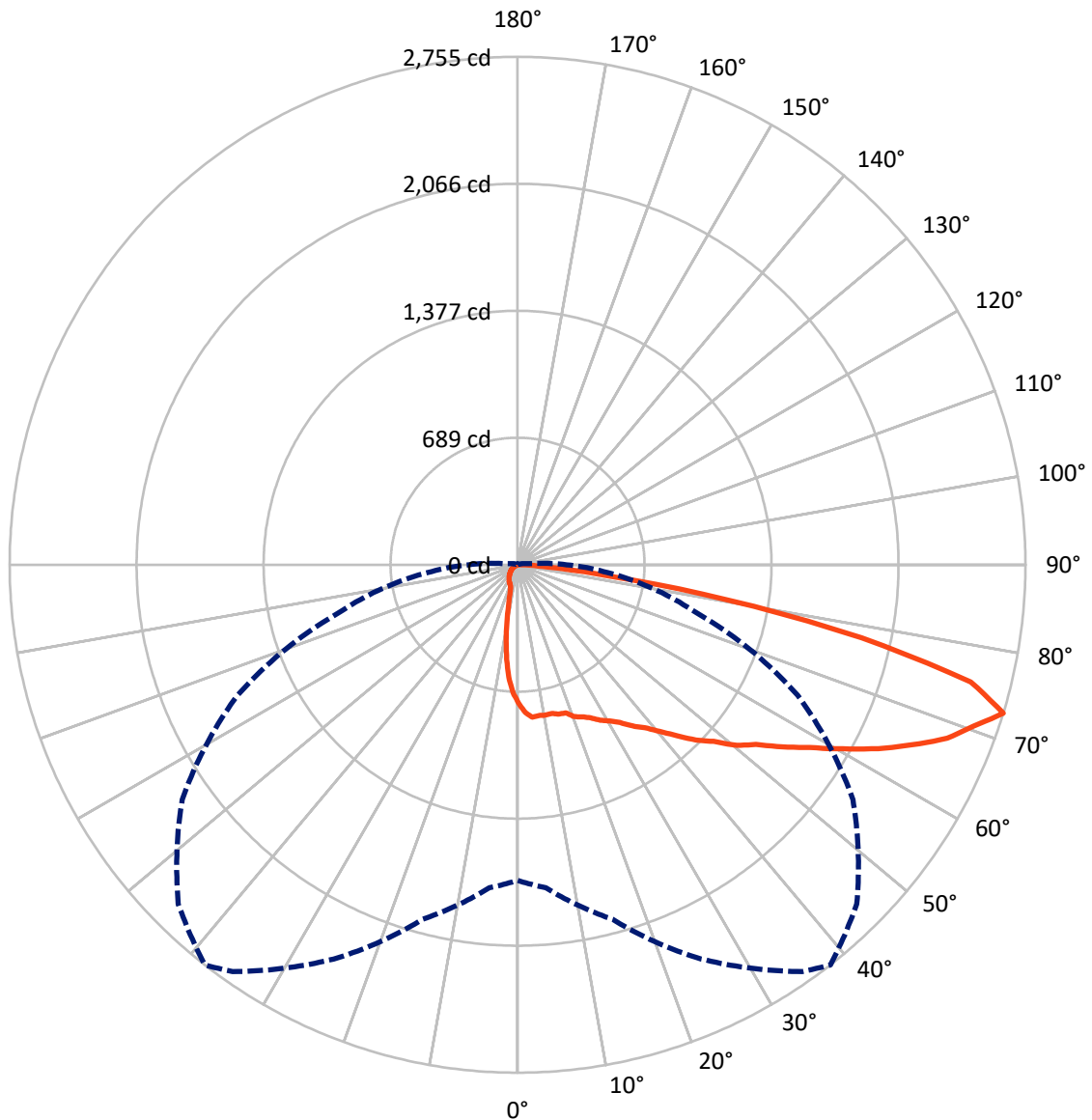
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.7	0.0	347.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3803.8	0.0	3803.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	4151.5	0.0	4151.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.6
10°-20°	160.9	3.9
20°-30°	257.9	6.2
30°-40°	389.4	9.4
40°-50°	592.7	14.3
50°-60°	834.4	20.1
60°-70°	1019.2	24.6
70°-80°	740.1	17.8
80°-90°	91.1	2.2
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°	4151.5	100.0
0°-180°	4151.5	100.0

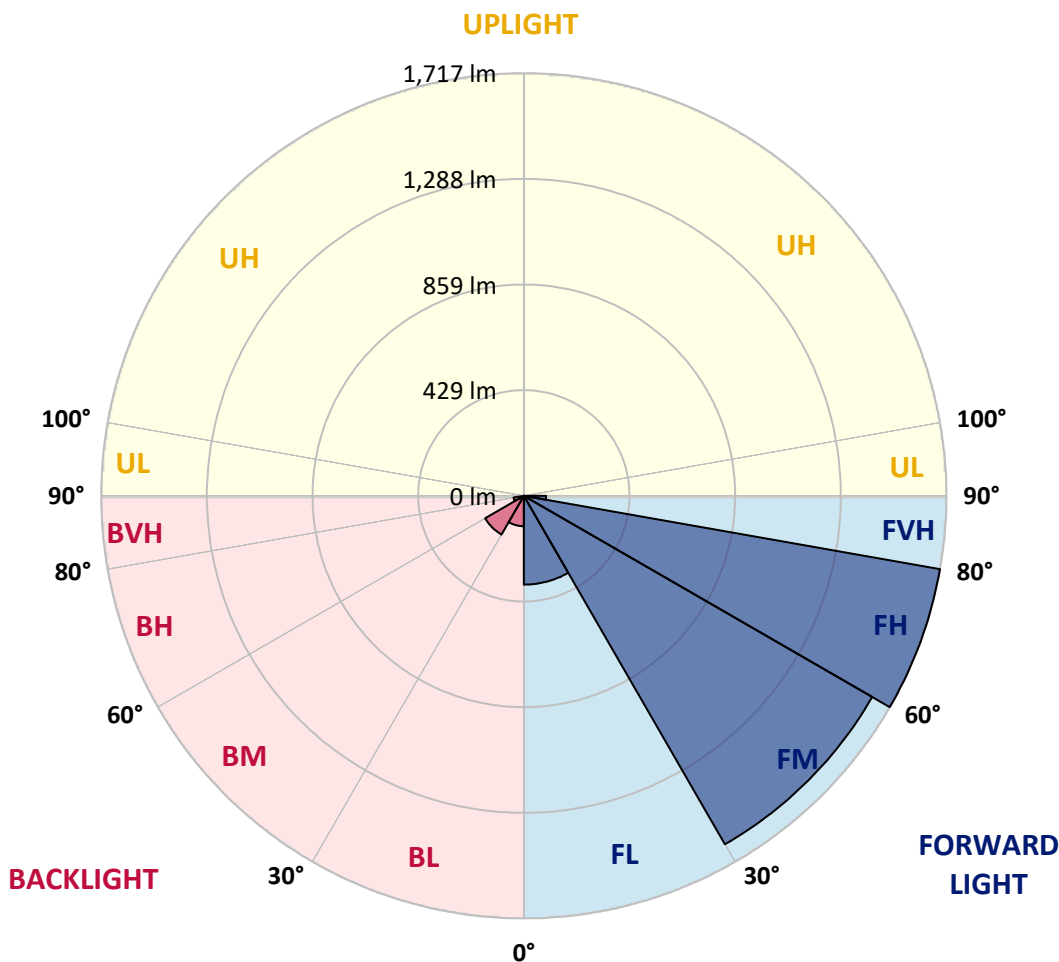


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.1	8.7			
FM (30°-60°)	1634.9	39.4			
FH (60°-80°)	1717.2	41.4			G1/1800
FVH (80°-90°)	90.7	2.2			G1/100
BL (0°-30°)	123.4	3.0	B1/500		
BM (30°-60°)	181.6	4.4	B0/220		
BH (60°-80°)	42.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	824.8	824.8	832.6	824.8	821.8	803.3	804.3	794.6	784.8	771.2	758.5
5°	834.5	841.3	846.2	839.4	828.7	830.6	837.4	818.9	792.6	776.1	747.8
7.5°	830.6	845.2	841.3	837.4	830.6	825.7	816.0	808.2	795.6	780.0	746.9
10°	827.7	832.6	833.5	830.6	816.0	829.6	818.9	806.3	790.7	772.2	731.3
12.5°	817.0	817.0	825.7	818.9	820.9	827.7	822.8	819.9	803.3	787.8	751.7
15°	805.3	809.2	822.8	833.5	843.3	840.3	837.4	828.7	814.1	796.5	758.5
17.5°	808.2	810.2	831.6	851.1	846.2	844.2	859.8	841.3	826.7	807.2	764.4
20°	818.9	824.8	849.1	874.4	879.3	879.3	873.5	862.7	842.3	816.0	775.1
22.5°	829.6	831.6	871.5	903.6	908.5	895.8	900.7	869.6	850.1	835.5	785.8
25°	870.5	866.6	909.5	934.8	931.9	919.2	914.3	887.1	879.3	853.0	809.2
27.5°	926.0	909.5	951.4	966.9	951.4	955.2	941.6	912.4	895.8	880.3	819.9
30°	960.1	969.9	992.2	1007.8	981.5	982.5	975.7	943.6	918.2	922.1	855.9
32.5°	1012.7	1019.5	1036.1	1042.9	1022.4	1020.5	1013.7	988.4	969.9	966.0	904.6
35°	1069.2	1081.8	1082.8	1084.8	1066.3	1074.0	1064.3	1028.3	1038.0	1044.8	963.0
37.5°	1124.7	1113.0	1132.5	1141.2	1120.8	1120.8	1123.7	1099.4	1116.9	1137.3	1045.8
40°	1146.1	1151.0	1185.0	1178.2	1202.6	1188.0	1198.7	1192.8	1207.4	1254.2	1162.7
42.5°	1168.5	1174.3	1220.1	1232.8	1262.0	1266.8	1282.4	1283.4	1326.2	1403.2	1274.6
45°	1211.3	1201.6	1263.9	1295.1	1342.8	1356.4	1374.9	1390.5	1457.7	1548.3	1402.2
47.5°	1250.3	1236.7	1307.7	1370.1	1428.5	1431.4	1482.0	1498.6	1578.4	1681.7	1528.8
50°	1304.8	1309.7	1339.9	1447.0	1506.4	1540.5	1575.5	1630.1	1718.7	1828.7	1620.3
52.5°	1361.3	1356.4	1407.1	1512.2	1605.7	1618.4	1697.2	1758.6	1855.0	1937.8	1661.2
55°	1430.4	1436.3	1455.8	1594.0	1712.8	1743.0	1831.6	1895.9	2001.0	1984.5	1674.8
57.5°	1499.6	1493.7	1537.5	1685.6	1847.2	1869.6	1987.4	2025.4	2096.5	2015.7	1640.8
60°	1567.7	1578.4	1596.9	1788.8	1994.2	2027.3	2120.8	2140.3	2155.9	2030.3	1614.5
62.5°	1645.6	1620.3	1677.8	1897.8	2126.7	2195.8	2269.8	2192.9	2179.2	2004.0	1554.1
65°	1684.6	1692.4	1767.3	2022.5	2302.9	2353.5	2363.3	2264.0	2193.9	1945.5	1497.6
67.5°	1745.0	1755.7	1851.1	2150.0	2484.0	2512.3	2477.2	2328.2	2181.2	1869.6	1294.1
70°	1752.7	1779.0	1963.1	2283.4	2598.0	2622.3	2595.0	2371.1	2078.9	1570.7	958.2
72.5°	1711.8	1758.6	1990.3	2359.4	2693.4	2754.7	2601.9	2220.1	1675.8	1002.0	490.8
75°	1293.1	1332.1	1821.9	2246.4	2524.0	2538.6	2284.4	1694.3	954.3	341.8	125.6
77.5°	669.9	737.1	1216.2	1716.7	1923.1	1907.6	1590.1	998.1	328.2	89.6	50.6
80°	384.6	401.2	531.7	964.0	1209.4	1150.0	879.3	430.4	144.1	44.8	33.1
82.5°	189.9	213.3	286.3	431.4	604.7	497.6	330.1	258.0	80.8	24.3	29.2
85°	40.9	42.8	146.1	206.4	245.4	161.6	113.0	217.1	29.2	14.6	28.2
87.5°	29.2	28.2	40.9	92.5	68.2	41.9	67.2	113.9	6.8	6.8	5.8
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°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	750.8	742.0	732.3	713.8	708.9	706.0	689.4	688.4	685.5	678.7	675.8
5°	730.3	715.7	697.2	677.7	662.1	633.9	599.8	582.3	560.9	561.9	555.0
7.5°	727.4	700.1	673.8	632.9	583.3	530.7	478.1	444.0	419.7	405.1	408.0
10°	713.8	693.3	650.5	574.5	494.7	414.8	347.6	297.0	267.8	245.4	252.2
12.5°	719.6	679.7	619.3	518.0	404.1	305.8	222.0	173.3	151.9	144.1	146.1
15°	715.7	679.7	600.8	456.7	317.4	207.4	144.1	128.5	124.6	124.6	122.7
17.5°	727.4	687.5	569.6	396.3	227.9	138.3	123.7	120.7	117.8	117.8	117.8
20°	743.9	691.4	548.2	329.1	160.7	121.7	115.9	113.9	113.0	113.0	112.0
22.5°	744.9	687.5	508.3	255.1	123.7	114.9	110.0	109.1	109.1	107.1	107.1
25°	750.8	691.4	465.5	191.8	114.9	108.1	104.2	103.2	104.2	103.2	102.2
27.5°	765.4	698.2	422.6	140.2	108.1	102.2	99.3	98.3	98.3	98.3	96.4
30°	783.9	698.2	374.9	115.9	102.2	96.4	93.5	92.5	91.5	91.5	91.5
32.5°	822.8	720.6	316.5	103.2	94.5	89.6	86.7	86.7	85.7	85.7	84.7
35°	871.5	736.2	257.1	95.4	87.6	82.8	79.8	79.8	78.9	78.9	77.9
37.5°	931.9	775.1	196.7	89.6	80.8	76.0	73.0	73.0	73.0	72.1	72.1
40°	1017.6	815.0	146.1	81.8	74.0	69.1	67.2	66.2	65.2	65.2	63.3
42.5°	1109.1	876.4	109.1	76.0	68.2	64.3	61.3	58.4	58.4	55.5	55.5
45°	1208.4	929.9	88.6	69.1	62.3	57.5	54.5	52.6	49.7	47.7	47.7
47.5°	1305.8	963.0	77.9	61.3	56.5	52.6	49.7	45.8	41.9	40.9	39.9
50°	1384.7	972.8	69.1	55.5	51.6	47.7	43.8	38.9	35.1	33.1	32.1
52.5°	1384.7	919.2	62.3	49.7	46.7	42.8	38.0	32.1	27.3	25.3	24.3
55°	1384.7	834.5	55.5	45.8	41.9	38.9	32.1	26.3	21.4	18.5	17.5
57.5°	1364.2	732.3	49.7	40.9	37.0	33.1	27.3	20.4	15.6	12.7	12.7
60°	1307.7	625.1	42.8	36.0	32.1	27.3	21.4	14.6	9.7	6.8	6.8
62.5°	1235.7	497.6	37.0	30.2	26.3	22.4	16.6	9.7	3.9	1.9	1.9
65°	1110.1	367.1	32.1	25.3	20.4	16.6	10.7	3.9	0.0	0.0	0.0
67.5°	916.3	245.4	25.3	20.4	17.5	11.7	6.8	1.0	0.0	0.0	0.0
70°	644.6	139.2	19.5	14.6	12.7	7.8	1.9	0.0	0.0	0.0	0.0
72.5°	264.9	61.3	13.6	10.7	8.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	72.1	27.3	8.8	5.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.9	18.5	3.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.1	8.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.1	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	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)