

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: P677185

Luminaire Tested: **CCW-SA-1D-830-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677185
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

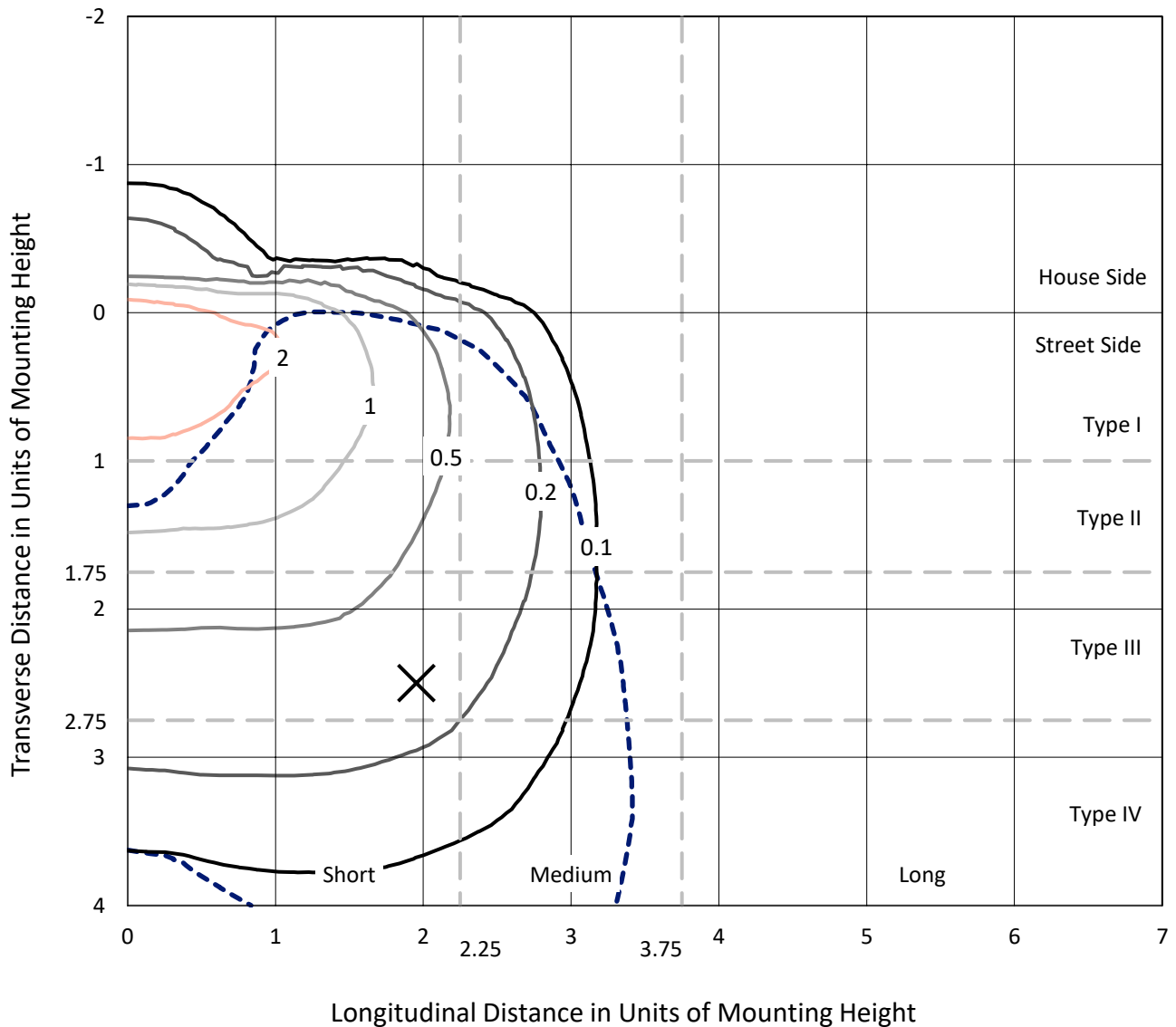
Lumens per Lamp: N/A
Luminaire Lumens: 3660.4 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

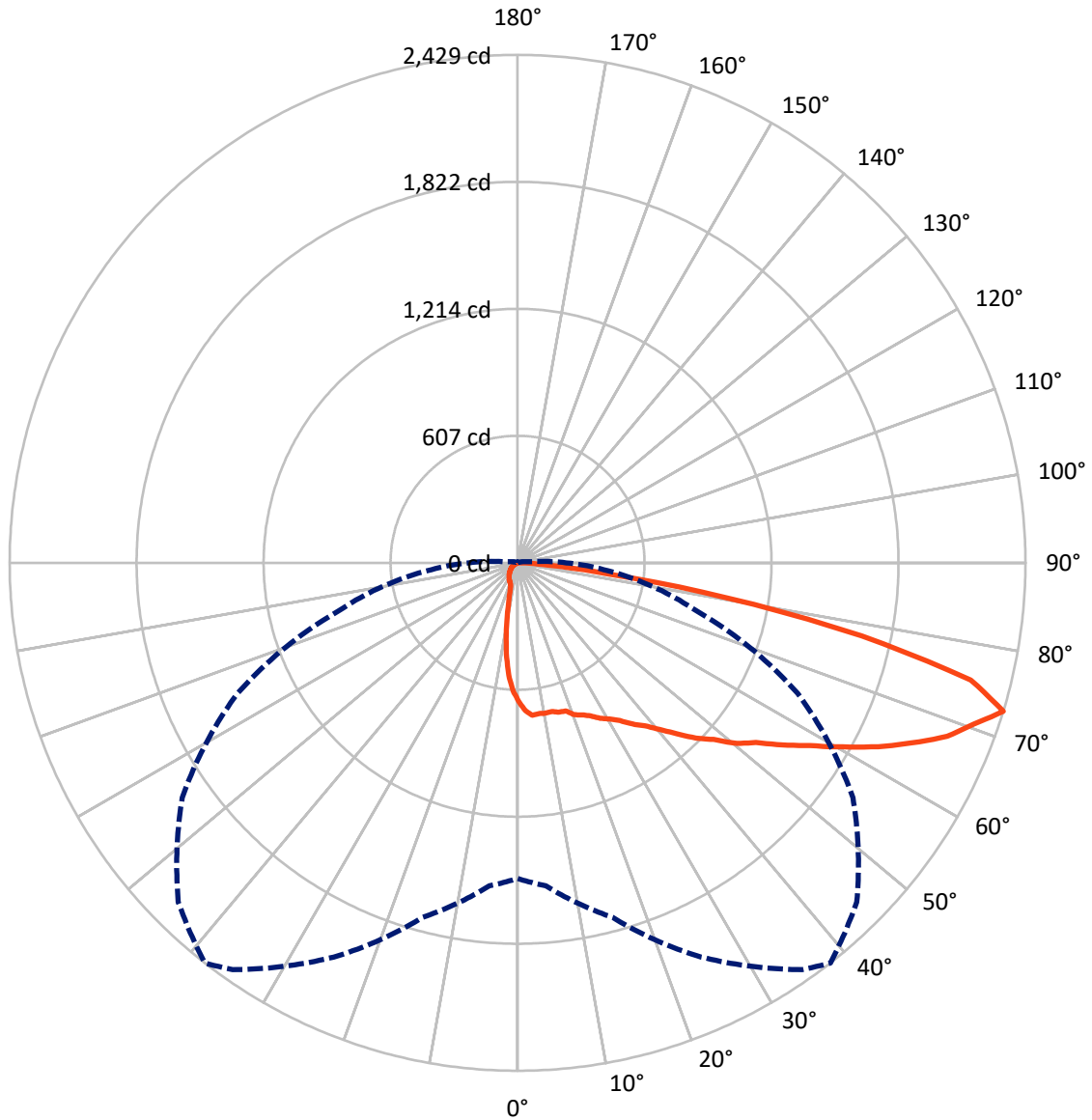
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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	306.6	0.0	306.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3353.9	0.0	3353.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3660.4	0.0	3660.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.6
10°-20°	141.9	3.9
20°-30°	227.4	6.2
30°-40°	343.4	9.4
40°-50°	522.6	14.3
50°-60°	735.7	20.1
60°-70°	898.7	24.6
70°-80°	652.6	17.8
80°-90°	80.4	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°	3660.4	100.0
0°-180°	3660.4	100.0

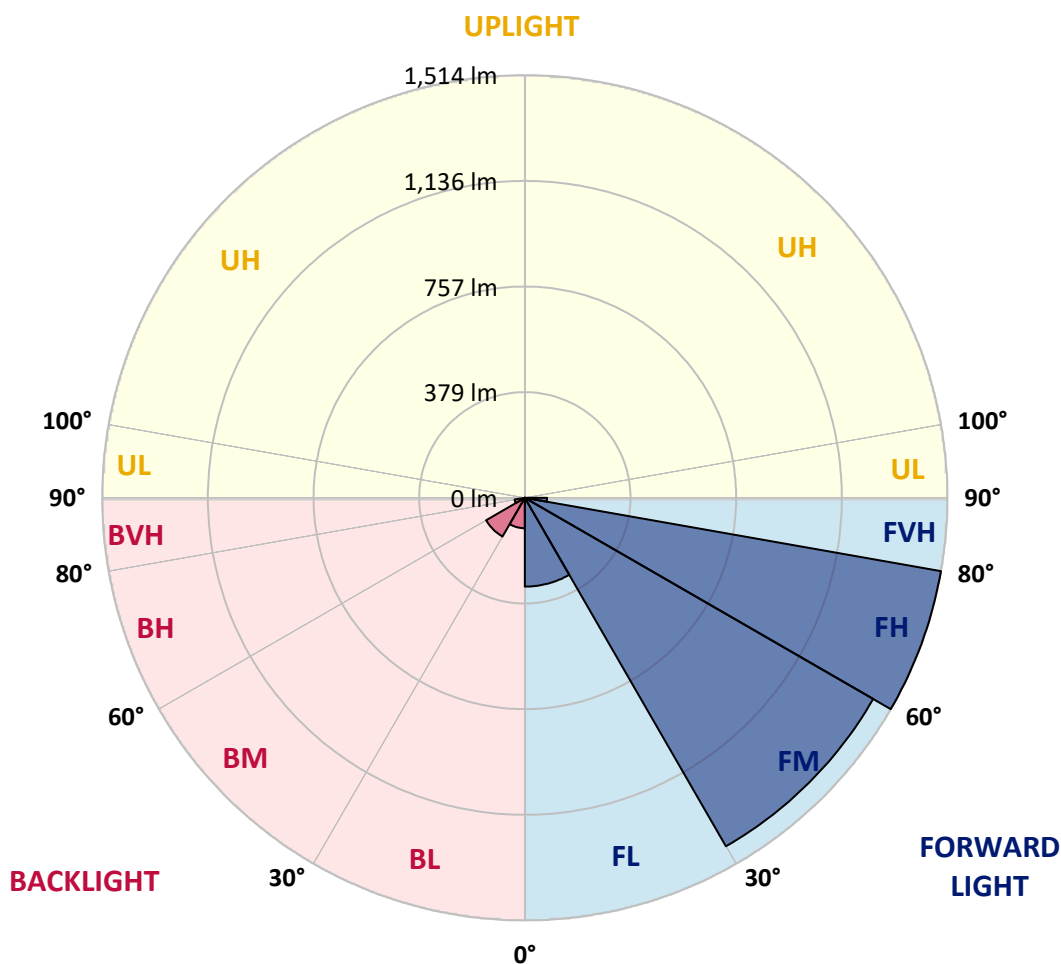


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.4	8.7			
FM (30°-60°)	1441.5	39.4			
FH (60°-80°)	1514.1	41.4			G1/1800
FVH (80°-90°)	80.0	2.2			G1/100
BL (0°-30°)	108.8	3.0	B0/110		
BM (30°-60°)	160.1	4.4	B0/220		
BH (60°-80°)	37.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
2.5°	727.2	727.2	734.1	727.2	724.6	708.3	709.2	700.6	692.0	680.0	668.8
5°	735.8	741.8	746.1	740.1	730.6	732.4	738.4	722.1	698.9	684.3	659.4
7.5°	732.4	745.2	741.8	738.4	732.4	728.1	719.5	712.6	701.4	687.7	658.5
10°	729.8	734.1	734.9	732.4	719.5	731.5	722.1	710.9	697.2	680.8	644.8
12.5°	720.3	720.3	728.1	722.1	723.8	729.8	725.5	722.9	708.3	694.6	662.8
15°	710.0	713.5	725.5	734.9	743.5	740.9	738.4	730.6	717.8	702.3	668.8
17.5°	712.6	714.3	733.2	750.4	746.1	744.4	758.1	741.8	728.9	711.7	674.0
20°	722.1	727.2	748.7	771.0	775.3	775.3	770.1	760.7	742.7	719.5	683.4
22.5°	731.5	733.2	768.4	796.7	801.0	789.9	794.2	766.7	749.5	736.6	692.9
25°	767.6	764.1	801.9	824.2	821.6	810.5	806.2	782.2	775.3	752.1	713.5
27.5°	816.5	801.9	838.8	852.6	838.8	842.3	830.2	804.5	789.9	776.1	722.9
30°	846.5	855.1	874.9	888.6	865.4	866.3	860.3	831.9	809.6	813.1	754.7
32.5°	892.9	898.9	913.5	919.5	901.5	899.8	893.8	871.4	855.1	851.7	797.6
35°	942.7	953.9	954.7	956.4	940.1	947.0	938.4	906.6	915.2	921.2	849.1
37.5°	991.6	981.3	998.5	1006.2	988.2	988.2	990.8	969.3	984.8	1002.8	922.1
40°	1010.5	1014.8	1044.9	1038.9	1060.3	1047.4	1056.9	1051.7	1064.6	1105.8	1025.1
42.5°	1030.3	1035.4	1075.8	1086.9	1112.7	1117.0	1130.7	1131.6	1169.4	1237.2	1123.9
45°	1068.1	1059.5	1114.4	1141.9	1184.0	1196.0	1212.3	1226.0	1285.3	1365.1	1236.3
47.5°	1102.4	1090.4	1153.1	1208.0	1259.5	1262.1	1306.7	1321.3	1391.7	1482.7	1347.9
50°	1150.5	1154.8	1181.4	1275.8	1328.2	1358.2	1389.2	1437.2	1515.4	1612.4	1428.7
52.5°	1200.3	1196.0	1240.6	1333.3	1415.8	1426.9	1496.5	1550.6	1635.6	1708.5	1464.7
55°	1261.2	1266.4	1283.6	1405.5	1510.2	1536.8	1615.0	1671.6	1764.3	1749.8	1476.7
57.5°	1322.2	1317.0	1355.7	1486.2	1628.7	1648.4	1752.3	1785.8	1848.5	1777.2	1446.7
60°	1382.3	1391.7	1408.0	1577.2	1758.3	1787.5	1870.0	1887.1	1900.9	1790.1	1423.5
62.5°	1451.0	1428.7	1479.3	1673.3	1875.1	1936.1	2001.3	1933.5	1921.5	1766.9	1370.3
65°	1485.3	1492.2	1558.3	1783.2	2030.5	2075.1	2083.7	1996.2	1934.3	1715.4	1320.5
67.5°	1538.5	1548.0	1632.1	1895.7	2190.2	2215.1	2184.2	2052.8	1923.2	1648.4	1141.0
70°	1545.4	1568.6	1730.9	2013.3	2290.6	2312.1	2288.1	2090.6	1833.0	1384.9	844.8
72.5°	1509.4	1550.6	1754.9	2080.3	2374.8	2428.9	2294.1	1957.5	1477.6	883.5	432.7
75°	1140.2	1174.5	1606.4	1980.7	2225.4	2238.3	2014.2	1493.9	841.4	301.4	110.8
77.5°	590.7	649.9	1072.3	1513.6	1695.7	1681.9	1402.0	880.0	289.3	79.0	44.6
80°	339.1	353.7	468.8	850.0	1066.3	1014.0	775.3	379.5	127.1	39.5	29.2
82.5°	167.4	188.0	252.4	380.3	533.2	438.7	291.1	227.5	71.3	21.5	25.8
85°	36.1	37.8	128.8	182.0	216.4	142.5	99.6	191.5	25.8	12.9	24.9
87.5°	25.8	24.9	36.1	81.6	60.1	36.9	59.2	100.5	6.0	6.0	5.2
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°	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
2.5°	662.0	654.2	645.6	629.3	625.0	622.5	607.9	607.0	604.4	598.4	595.8
5°	643.9	631.0	614.7	597.6	583.8	558.9	528.9	513.4	494.5	495.4	489.4
7.5°	641.3	617.3	594.1	558.1	514.3	467.9	421.6	391.5	370.0	357.2	359.7
10°	629.3	611.3	573.5	506.6	436.2	365.7	306.5	261.9	236.1	216.4	222.4
12.5°	634.5	599.3	546.0	456.8	356.3	269.6	195.8	152.8	133.9	127.1	128.8
15°	631.0	599.3	529.7	402.7	279.9	182.9	127.1	113.3	109.9	109.9	108.2
17.5°	641.3	606.1	502.3	349.4	200.9	121.9	109.0	106.5	103.9	103.9	103.9
20°	655.9	609.6	483.4	290.2	141.7	107.3	102.2	100.5	99.6	99.6	98.7
22.5°	656.8	606.1	448.2	224.9	109.0	101.3	97.0	96.2	96.2	94.4	94.4
25°	662.0	609.6	410.4	169.1	101.3	95.3	91.9	91.0	91.9	91.0	90.1
27.5°	674.8	615.6	372.6	123.6	95.3	90.1	87.6	86.7	86.7	86.7	85.0
30°	691.1	615.6	330.5	102.2	90.1	85.0	82.4	81.6	80.7	80.7	80.7
32.5°	725.5	635.3	279.0	91.0	83.3	79.0	76.4	76.4	75.6	75.6	74.7
35°	768.4	649.1	226.7	84.1	77.3	73.0	70.4	70.4	69.5	69.5	68.7
37.5°	821.6	683.4	173.4	79.0	71.3	67.0	64.4	64.4	64.4	63.5	63.5
40°	897.2	718.6	128.8	72.1	65.3	61.0	59.2	58.4	57.5	57.5	55.8
42.5°	977.9	772.7	96.2	67.0	60.1	56.7	54.1	51.5	51.5	48.9	48.9
45°	1065.5	819.9	78.1	61.0	54.9	50.7	48.1	46.4	43.8	42.1	42.1
47.5°	1151.3	849.1	68.7	54.1	49.8	46.4	43.8	40.4	36.9	36.1	35.2
50°	1220.9	857.7	61.0	48.9	45.5	42.1	38.6	34.3	30.9	29.2	28.3
52.5°	1220.9	810.5	54.9	43.8	41.2	37.8	33.5	28.3	24.0	22.3	21.5
55°	1220.9	735.8	48.9	40.4	36.9	34.3	28.3	23.2	18.9	16.3	15.5
57.5°	1202.8	645.6	43.8	36.1	32.6	29.2	24.0	18.0	13.7	11.2	11.2
60°	1153.1	551.2	37.8	31.8	28.3	24.0	18.9	12.9	8.6	6.0	6.0
62.5°	1089.5	438.7	32.6	26.6	23.2	19.7	14.6	8.6	3.4	1.7	1.7
65°	978.8	323.7	28.3	22.3	18.0	14.6	9.4	3.4	0.0	0.0	0.0
67.5°	807.9	216.4	22.3	18.0	15.5	10.3	6.0	0.9	0.0	0.0	0.0
70°	568.4	122.8	17.2	12.9	11.2	6.9	1.7	0.0	0.0	0.0	0.0
72.5°	233.5	54.1	12.0	9.4	7.7	3.4	0.0	0.0	0.0	0.0	0.0
75°	63.5	24.0	7.7	5.2	4.3	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	36.9	16.3	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.2	7.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.2	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	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)