

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: P673977

Luminaire Tested: **CCP-SA-2A-735-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673977
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-735-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL4 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

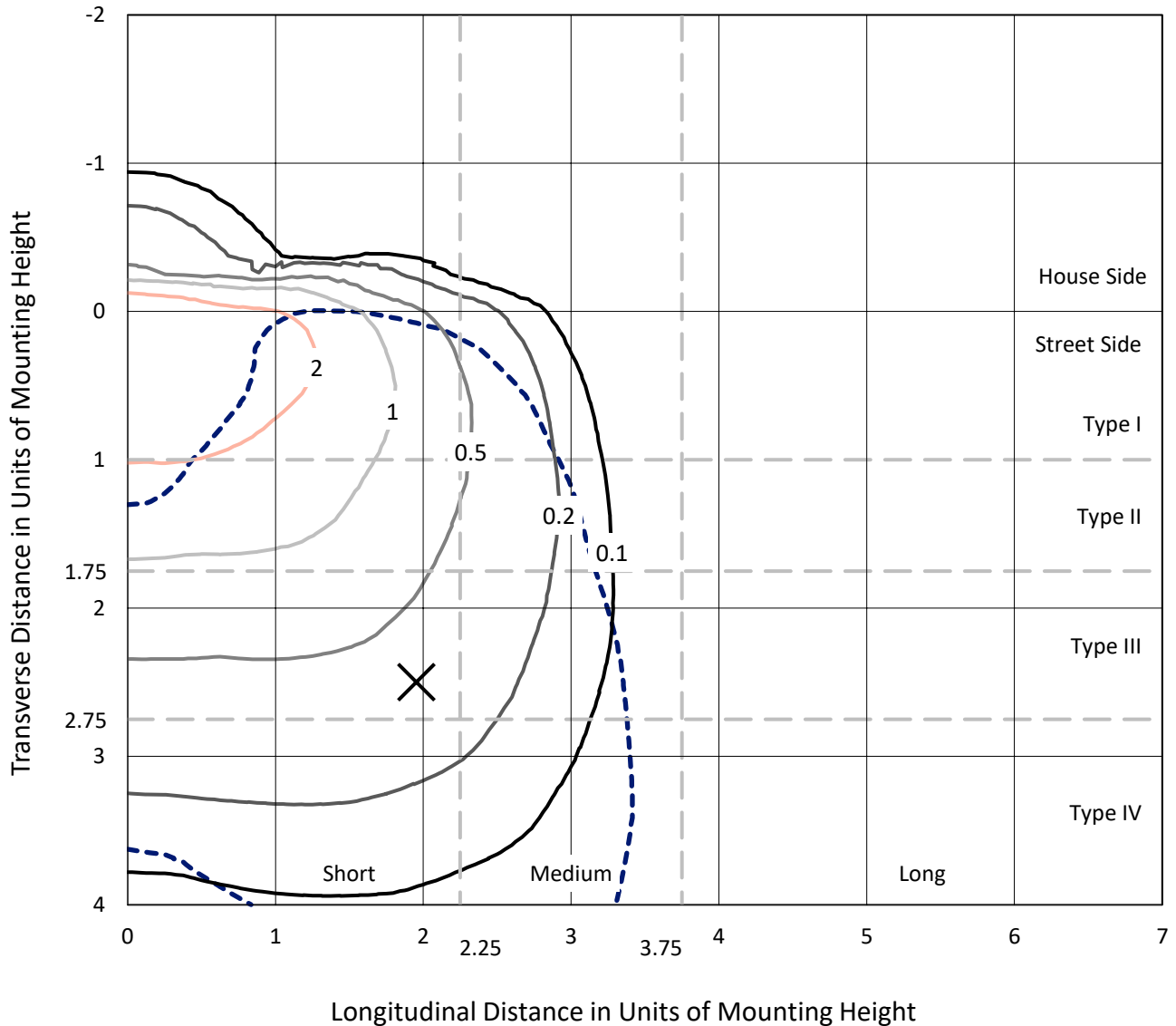
Lumens per Lamp: N/A
Luminaire Lumens: 4457.8 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

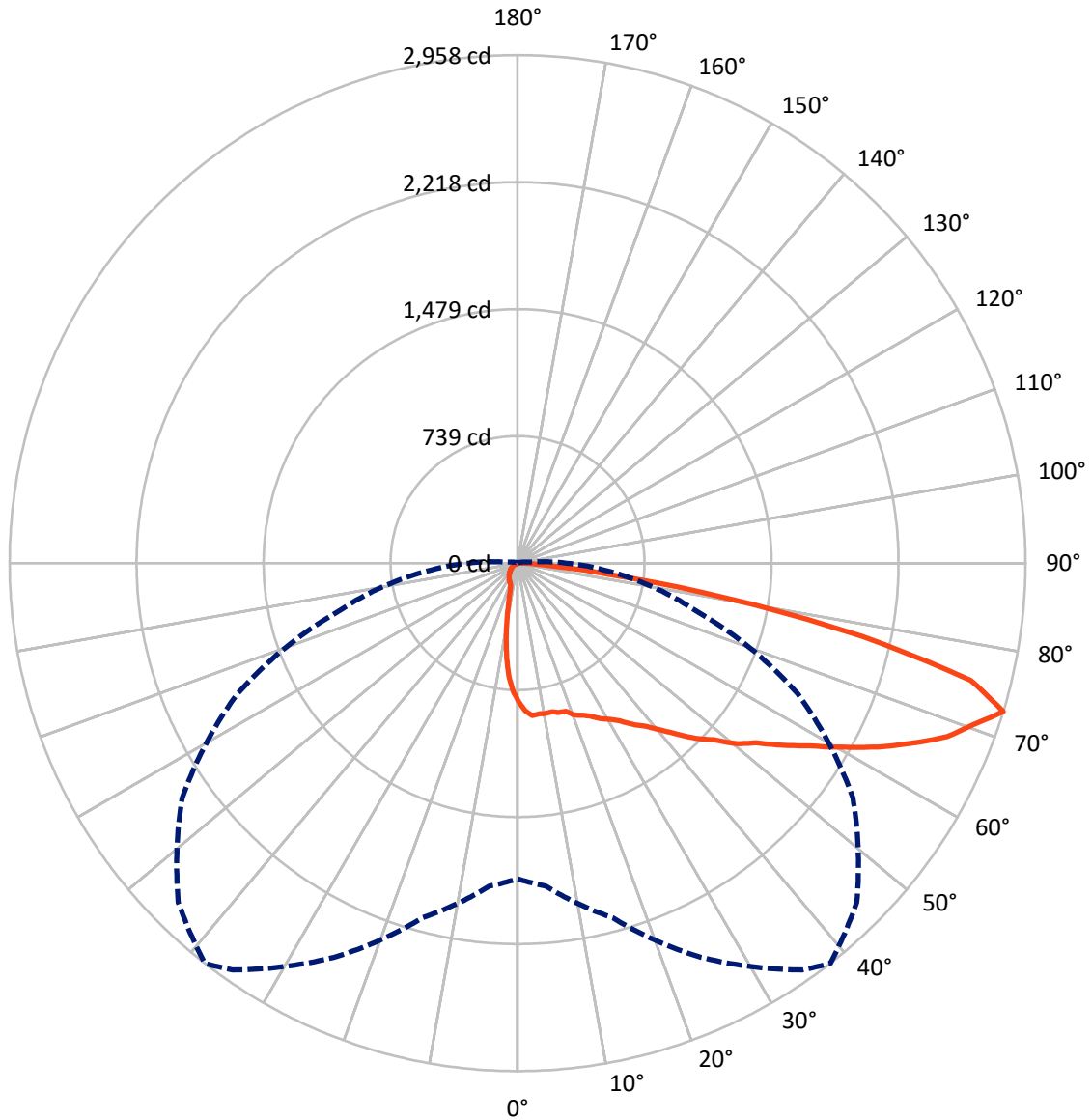
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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	373.3	0.0	373.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4084.4	0.0	4084.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	4457.8	0.0	4457.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.6
10°-20°	172.8	3.9
20°-30°	277.0	6.2
30°-40°	418.1	9.4
40°-50°	636.4	14.3
50°-60°	896.0	20.1
60°-70°	1094.4	24.6
70°-80°	794.7	17.8
80°-90°	97.9	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°	4457.8	100.0
0°-180°	4457.8	100.0



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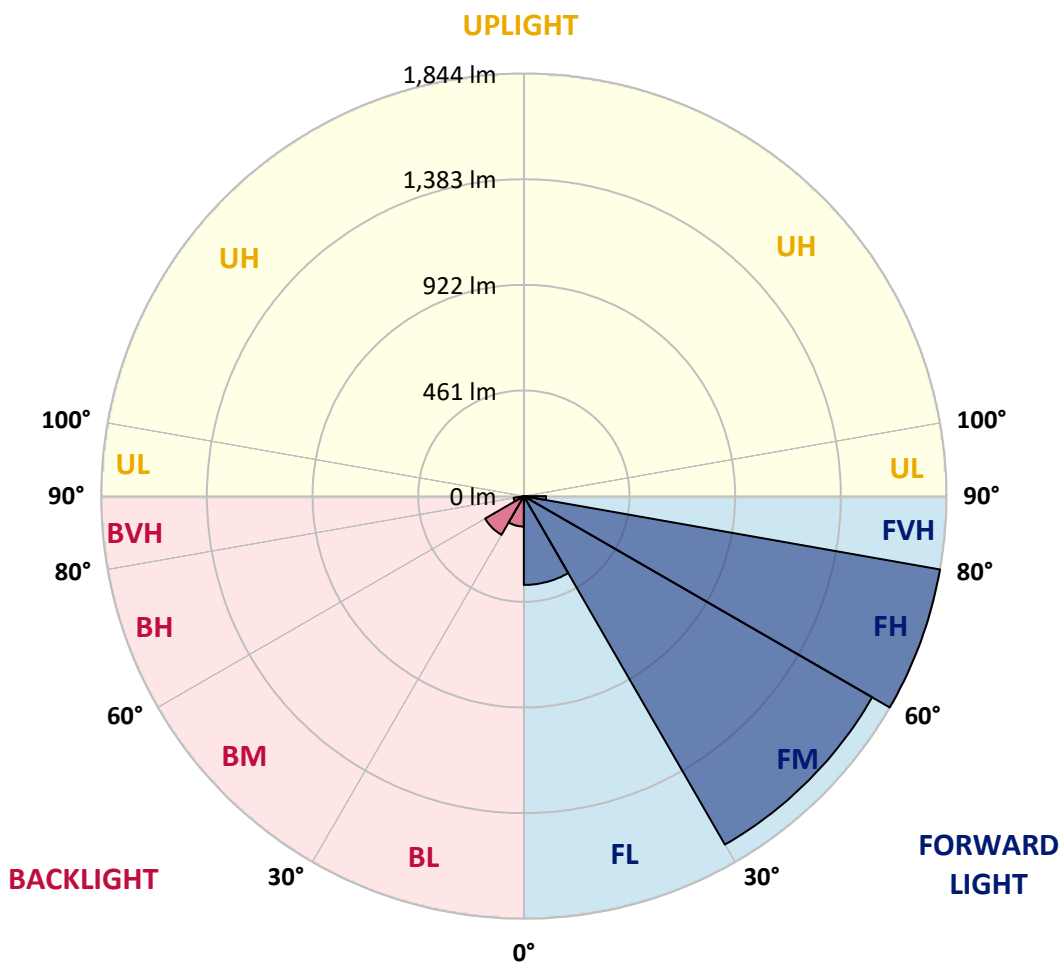
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.7	8.7			
FM (30°-60°)	1755.5	39.4			
FH (60°-80°)	1843.9	41.4			G2/5000
FVH (80°-90°)	97.4	2.2			G1/100
BL (0°-30°)	132.5	3.0	B1/500		
BM (30°-60°)	195.0	4.4	B0/220		
BH (60°-80°)	45.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1
2.5°	885.6	885.6	894.0	885.6	882.5	862.6	863.6	853.2	842.7	828.1	814.5
5°	896.1	903.4	908.6	901.3	889.8	891.9	899.2	879.3	851.1	833.3	803.0
7.5°	891.9	907.6	903.4	899.2	891.9	886.7	876.2	867.8	854.2	837.5	802.0
10°	888.7	894.0	895.0	891.9	876.2	890.8	879.3	865.7	849.0	829.1	785.2
12.5°	877.2	877.2	886.7	879.3	881.4	888.7	883.5	880.4	862.6	845.9	807.2
15°	864.7	868.9	883.5	895.0	905.5	902.3	899.2	889.8	874.1	855.3	814.5
17.5°	867.8	869.9	892.9	913.8	908.6	906.5	923.2	903.4	887.7	866.8	820.8
20°	879.3	885.6	911.7	938.9	944.2	944.2	937.9	926.4	904.4	876.2	832.3
22.5°	890.8	892.9	935.8	970.3	975.5	961.9	967.2	933.7	912.8	897.1	843.8
25°	934.7	930.6	976.6	1003.8	1000.6	987.0	981.8	952.5	944.2	915.9	868.9
27.5°	994.3	976.6	1021.5	1038.3	1021.5	1025.7	1011.1	979.7	961.9	945.2	880.4
30°	1030.9	1041.4	1065.4	1082.2	1053.9	1055.0	1047.7	1013.2	986.0	990.2	919.1
32.5°	1087.4	1094.7	1112.5	1119.8	1097.9	1095.8	1088.4	1061.3	1041.4	1037.2	971.3
35°	1148.0	1161.6	1162.7	1164.8	1144.9	1153.3	1142.8	1104.1	1114.6	1121.9	1034.1
37.5°	1207.6	1195.1	1216.0	1225.4	1203.5	1203.5	1206.6	1180.5	1199.3	1221.2	1123.0
40°	1230.6	1235.9	1272.5	1265.2	1291.3	1275.6	1287.1	1280.8	1296.5	1346.7	1248.4
42.5°	1254.7	1261.0	1310.1	1323.7	1355.1	1360.3	1377.0	1378.1	1424.1	1506.7	1368.7
45°	1300.7	1290.2	1357.2	1390.6	1441.9	1456.5	1476.4	1493.1	1565.2	1662.5	1505.6
47.5°	1342.5	1327.9	1404.2	1471.1	1533.9	1537.0	1591.4	1609.1	1694.9	1805.7	1641.6
50°	1401.1	1406.3	1438.7	1553.7	1617.5	1654.1	1691.7	1750.3	1845.4	1963.6	1739.8
52.5°	1461.7	1456.5	1510.9	1623.8	1724.2	1737.8	1822.4	1888.3	1991.8	2080.7	1783.8
55°	1536.0	1542.2	1563.1	1711.6	1839.2	1871.6	1966.7	2035.7	2148.7	2130.9	1798.4
57.5°	1610.2	1603.9	1651.0	1809.9	1983.5	2007.5	2134.0	2174.8	2251.1	2164.4	1761.8
60°	1683.4	1694.9	1714.8	1920.7	2141.3	2176.9	2277.3	2298.2	2314.9	2180.0	1733.6
62.5°	1767.0	1739.8	1801.5	2037.8	2283.5	2357.8	2437.2	2354.6	2340.0	2151.8	1668.7
65°	1808.9	1817.2	1897.7	2171.7	2472.8	2527.2	2537.6	2431.0	2355.7	2089.1	1608.1
67.5°	1873.7	1885.2	1987.6	2308.6	2667.3	2697.6	2660.0	2500.0	2342.1	2007.5	1389.6
70°	1882.0	1910.3	2107.9	2451.9	2789.6	2815.7	2786.5	2546.0	2232.3	1686.5	1028.9
72.5°	1838.1	1888.3	2137.2	2533.4	2892.1	2957.9	2793.8	2383.9	1799.4	1075.9	527.0
75°	1388.5	1430.4	1956.3	2412.2	2710.1	2725.8	2452.9	1819.3	1024.7	367.0	134.9
77.5°	719.4	791.5	1305.9	1843.4	2065.0	2048.3	1707.4	1071.7	352.4	96.2	54.4
80°	413.0	430.8	570.9	1035.1	1298.6	1234.8	944.2	462.1	154.7	48.1	35.5
82.5°	203.9	229.0	307.4	463.2	649.3	534.3	354.5	277.1	86.8	26.1	31.4
85°	43.9	46.0	156.8	221.7	263.5	173.6	121.3	233.2	31.4	15.7	30.3
87.5°	31.4	30.3	43.9	99.3	73.2	45.0	72.1	122.3	7.3	7.3	6.3
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°	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1	806.1
2.5°	806.1	796.7	786.3	766.4	761.2	758.0	740.3	739.2	736.1	728.8	725.6
5°	784.2	768.5	748.6	727.7	711.0	680.7	644.1	625.3	602.3	603.3	596.0
7.5°	781.0	751.8	723.5	679.6	626.3	569.8	513.4	476.8	450.6	435.0	438.1
10°	766.4	744.5	698.4	616.9	531.2	445.4	373.3	318.9	287.5	263.5	270.8
12.5°	772.7	729.8	665.0	556.2	433.9	328.3	238.4	186.1	163.1	154.7	156.8
15°	768.5	729.8	645.1	490.4	340.9	222.7	154.7	138.0	133.8	133.8	131.7
17.5°	781.0	738.2	611.7	425.6	244.7	148.5	132.8	129.7	126.5	126.5	126.5
20°	798.8	742.4	588.7	353.4	172.5	130.7	124.4	122.3	121.3	121.3	120.2
22.5°	799.9	738.2	545.8	273.9	132.8	123.4	118.2	117.1	117.1	115.0	115.0
25°	806.1	742.4	499.8	206.0	123.4	116.1	111.9	110.8	111.9	110.8	109.8
27.5°	821.8	749.7	453.8	150.6	116.1	109.8	106.6	105.6	105.6	105.6	103.5
30°	841.7	749.7	402.5	124.4	109.8	103.5	100.4	99.3	98.3	98.3	98.3
32.5°	883.5	773.7	339.8	110.8	101.4	96.2	93.1	93.1	92.0	92.0	91.0
35°	935.8	790.5	276.0	102.5	94.1	88.9	85.7	85.7	84.7	84.7	83.6
37.5°	1000.6	832.3	211.2	96.2	86.8	81.6	78.4	78.4	78.4	77.4	77.4
40°	1092.6	875.2	156.8	87.8	79.5	74.2	72.1	71.1	70.1	70.1	68.0
42.5°	1190.9	941.0	117.1	81.6	73.2	69.0	65.9	62.7	62.7	59.6	59.6
45°	1297.6	998.5	95.1	74.2	66.9	61.7	58.6	56.5	53.3	51.2	51.2
47.5°	1402.1	1034.1	83.6	65.9	60.6	56.5	53.3	49.1	45.0	43.9	42.9
50°	1486.8	1044.5	74.2	59.6	55.4	51.2	47.1	41.8	37.6	35.5	34.5
52.5°	1486.8	987.0	66.9	53.3	50.2	46.0	40.8	34.5	29.3	27.2	26.1
55°	1486.8	896.1	59.6	49.1	45.0	41.8	34.5	28.2	23.0	19.9	18.8
57.5°	1464.9	786.3	53.3	43.9	39.7	35.5	29.3	22.0	16.7	13.6	13.6
60°	1404.2	671.3	46.0	38.7	34.5	29.3	23.0	15.7	10.5	7.3	7.3
62.5°	1326.8	534.3	39.7	32.4	28.2	24.0	17.8	10.5	4.2	2.1	2.1
65°	1192.0	394.2	34.5	27.2	22.0	17.8	11.5	4.2	0.0	0.0	0.0
67.5°	983.9	263.5	27.2	22.0	18.8	12.5	7.3	1.0	0.0	0.0	0.0
70°	692.2	149.5	20.9	15.7	13.6	8.4	2.1	0.0	0.0	0.0	0.0
72.5°	284.4	65.9	14.6	11.5	9.4	4.2	0.0	0.0	0.0	0.0	0.0
75°	77.4	29.3	9.4	6.3	5.2	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	45.0	19.9	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.5	9.4	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.5	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	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)