

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: P677101

Luminaire Tested: **CCW-SA-2B-722-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677101
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-722-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

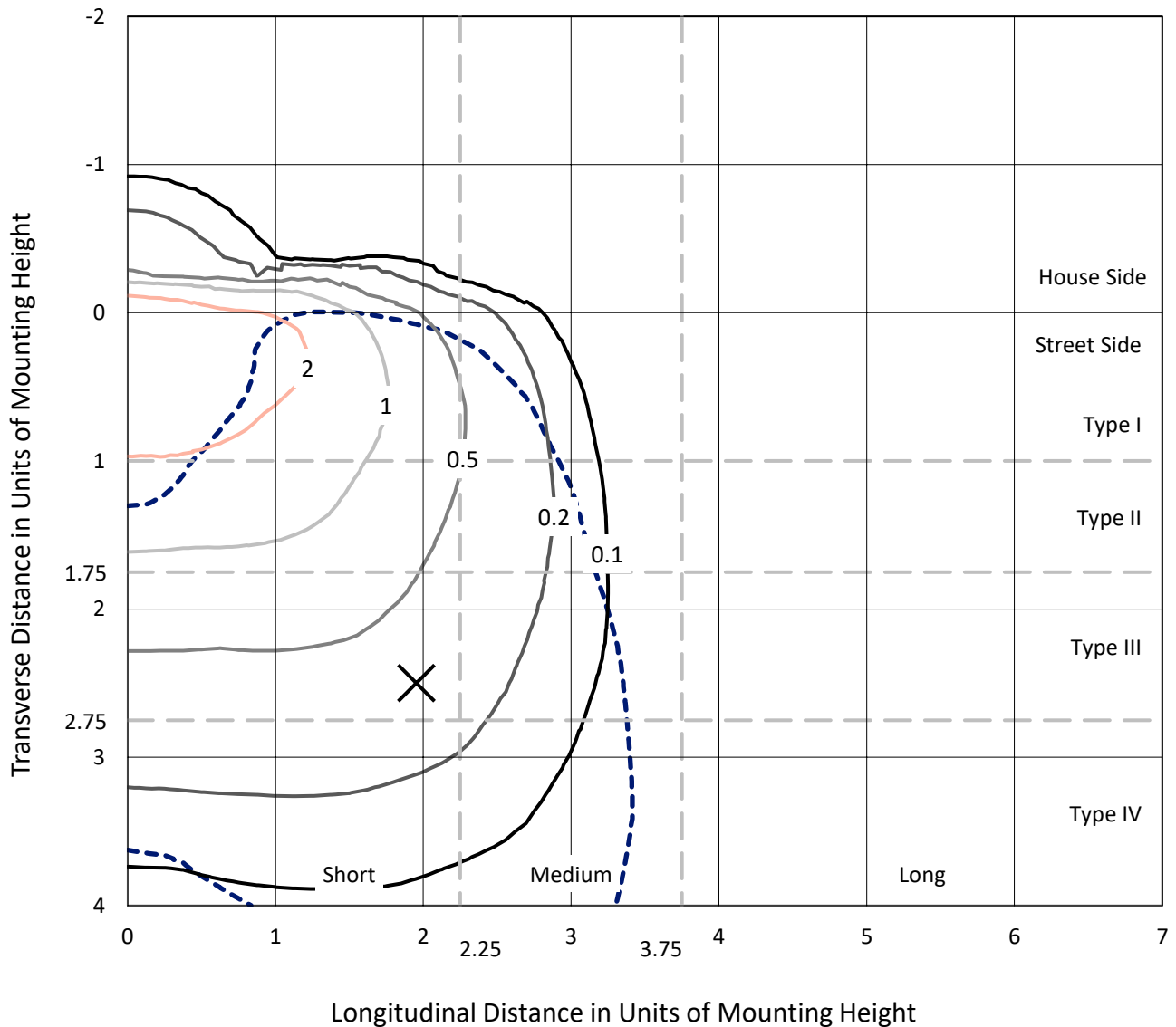
Lumens per Lamp: N/A
Luminaire Lumens: 4202.1 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

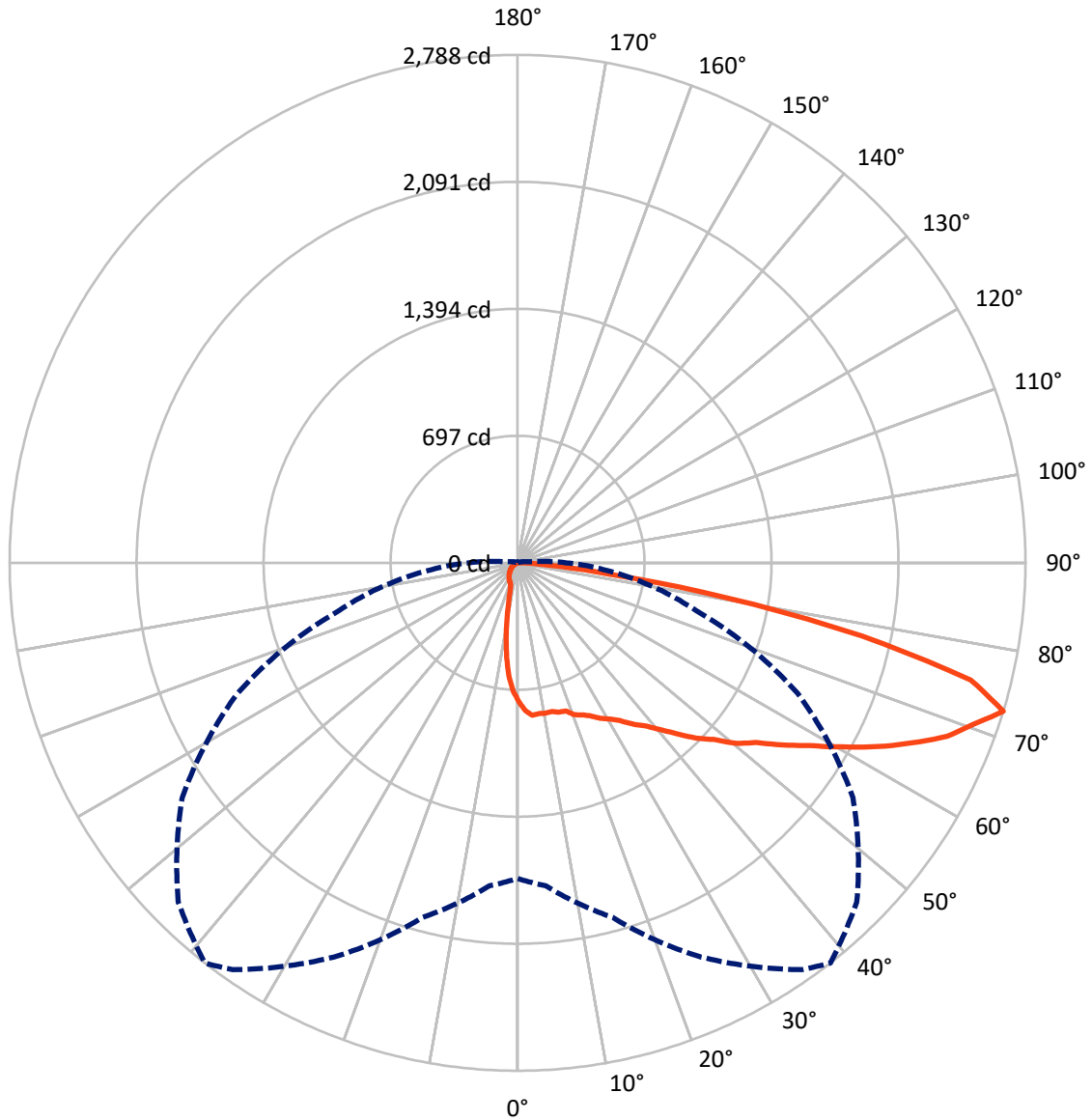
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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	351.9	0.0	351.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3850.2	0.0	3850.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	4202.1	0.0	4202.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.6
10°-20°	162.9	3.9
20°-30°	261.1	6.2
30°-40°	394.2	9.4
40°-50°	599.9	14.3
50°-60°	844.6	20.1
60°-70°	1031.7	24.6
70°-80°	749.1	17.8
80°-90°	92.3	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°	4202.1	100.0
0°-180°	4202.1	100.0

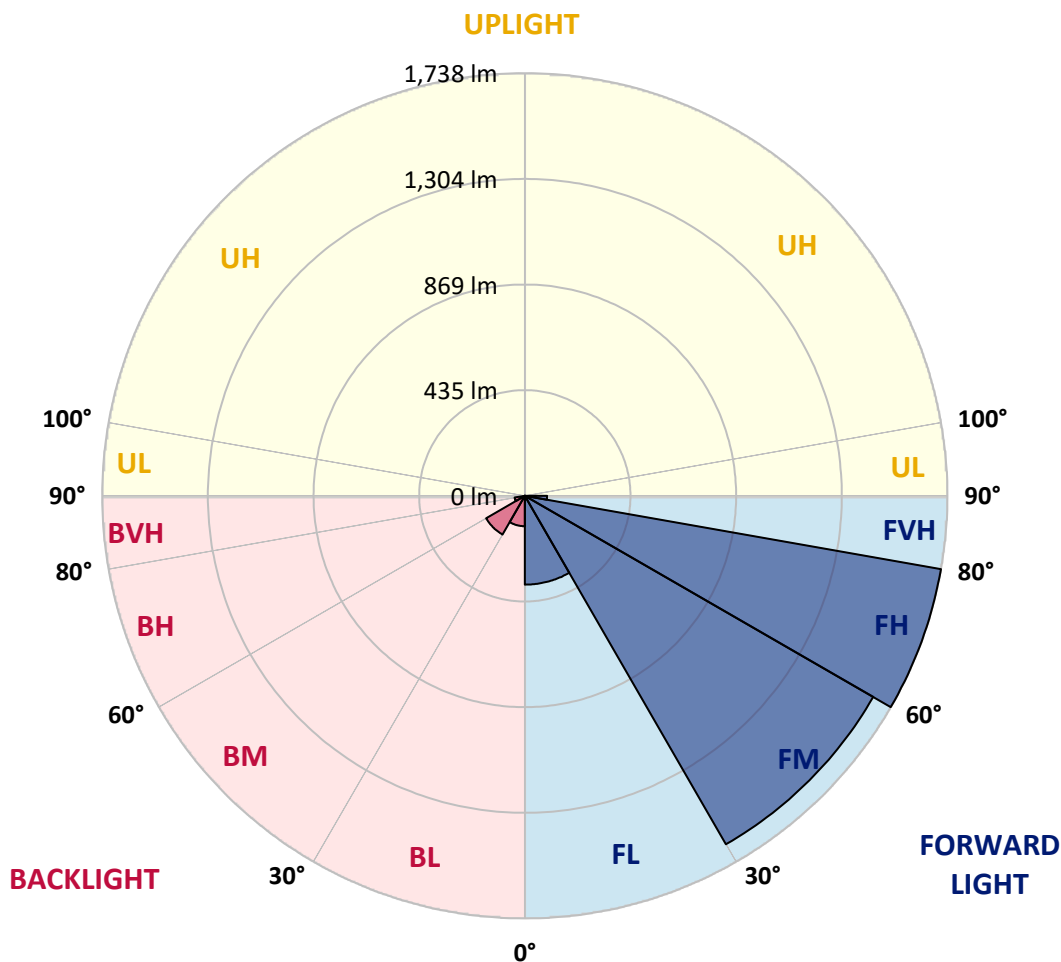


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.5	8.7			
FM (30°-60°)	1654.8	39.4			
FH (60°-80°)	1738.1	41.4			G1/1800
FVH (80°-90°)	91.8	2.2			G1/100
BL (0°-30°)	124.9	3.0	B1/500		
BM (30°-60°)	183.8	4.4	B0/220		
BH (60°-80°)	42.7	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°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9
2.5°	834.8	834.8	842.7	834.8	831.9	813.1	814.1	804.3	794.4	780.6	767.8
5°	844.7	851.6	856.5	849.6	838.7	840.7	847.6	828.9	802.3	785.5	756.9
7.5°	840.7	855.5	851.6	847.6	840.7	835.8	825.9	818.1	805.2	789.5	756.0
10°	837.8	842.7	843.7	840.7	825.9	839.7	828.9	816.1	800.3	781.6	740.2
12.5°	826.9	826.9	835.8	828.9	830.9	837.8	832.8	829.9	813.1	797.4	760.9
15°	815.1	819.0	832.8	843.7	853.5	850.6	847.6	838.7	824.0	806.2	767.8
17.5°	818.1	820.0	841.7	861.4	856.5	854.5	870.3	851.6	836.8	817.1	773.7
20°	828.9	834.8	859.4	885.1	890.0	890.0	884.1	873.2	852.5	825.9	784.5
22.5°	839.7	841.7	882.1	914.6	919.6	906.8	911.7	880.1	860.4	845.6	795.4
25°	881.1	877.2	920.6	946.2	943.2	930.4	925.5	897.9	890.0	863.4	819.0
27.5°	937.3	920.6	962.9	978.7	962.9	966.9	953.1	923.5	906.8	891.0	829.9
30°	971.8	981.7	1004.3	1020.1	993.5	994.5	987.6	955.1	929.4	933.4	866.3
32.5°	1025.0	1031.9	1048.7	1055.6	1034.9	1032.9	1026.0	1000.4	981.7	977.7	915.6
35°	1082.2	1095.0	1096.0	1098.0	1079.2	1087.1	1077.3	1040.8	1050.7	1057.6	974.8
37.5°	1138.4	1126.5	1146.3	1155.1	1134.4	1134.4	1137.4	1112.7	1130.5	1151.2	1058.5
40°	1160.1	1165.0	1199.5	1192.6	1217.2	1202.4	1213.3	1207.4	1222.2	1269.5	1176.8
42.5°	1182.7	1188.6	1235.0	1247.8	1277.3	1282.3	1298.0	1299.0	1342.4	1420.3	1290.2
45°	1226.1	1216.2	1279.3	1310.9	1359.1	1372.9	1391.7	1407.4	1475.5	1567.1	1419.3
47.5°	1265.5	1251.7	1323.7	1386.7	1445.9	1448.8	1500.1	1516.8	1597.7	1702.1	1547.4
50°	1320.7	1325.6	1356.2	1464.6	1524.7	1559.2	1594.7	1649.9	1739.6	1851.0	1640.0
52.5°	1377.9	1372.9	1424.2	1530.6	1625.3	1638.1	1717.9	1780.0	1877.6	1961.4	1681.4
55°	1447.9	1453.8	1473.5	1613.4	1733.7	1764.2	1853.9	1919.0	2025.4	2008.7	1695.2
57.5°	1517.8	1511.9	1556.3	1706.1	1869.7	1892.4	2011.6	2050.1	2122.0	2040.2	1660.7
60°	1586.8	1597.7	1616.4	1810.6	2018.5	2052.0	2146.6	2166.4	2182.1	2055.0	1634.1
62.5°	1665.7	1640.0	1698.2	1920.9	2152.6	2222.5	2297.4	2219.6	2205.8	2028.4	1573.0
65°	1705.1	1713.0	1788.9	2047.1	2331.0	2382.2	2392.1	2291.5	2220.6	1969.2	1515.9
67.5°	1766.2	1777.0	1873.6	2176.2	2514.3	2542.9	2507.4	2356.6	2207.8	1892.4	1309.9
70°	1774.1	1800.7	1987.0	2311.2	2629.6	2654.2	2626.6	2399.9	2104.3	1589.8	969.8
72.5°	1732.7	1780.0	2014.6	2388.1	2726.2	2788.3	2633.5	2247.2	1696.2	1014.2	496.7
75°	1308.9	1348.3	1844.1	2273.8	2554.7	2569.5	2312.2	1715.0	965.9	345.9	127.1
77.5°	678.1	746.1	1231.0	1737.6	1946.6	1930.8	1609.5	1010.2	332.1	90.7	51.3
80°	389.3	406.1	538.1	975.7	1224.1	1164.0	890.0	435.6	145.9	45.3	33.5
82.5°	192.2	215.8	289.8	436.6	612.1	503.6	334.1	261.2	81.8	24.6	29.6
85°	41.4	43.4	147.8	208.9	248.4	163.6	114.3	219.8	29.6	14.8	28.6
87.5°	29.6	28.6	41.4	93.6	69.0	42.4	68.0	115.3	6.9	6.9	5.9
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°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9
2.5°	759.9	751.0	741.2	722.4	717.5	714.6	697.8	696.8	693.9	687.0	684.0
5°	739.2	724.4	705.7	686.0	670.2	641.6	607.1	589.4	567.7	568.7	561.8
7.5°	736.2	708.7	682.0	640.6	590.4	537.2	483.9	449.4	424.8	410.0	413.0
10°	722.4	701.8	658.4	581.5	500.7	419.9	351.9	300.6	271.0	248.4	255.3
12.5°	728.4	688.0	626.8	524.3	409.0	309.5	224.7	175.4	153.8	145.9	147.8
15°	724.4	688.0	608.1	462.2	321.3	209.9	145.9	130.1	126.2	126.2	124.2
17.5°	736.2	695.8	576.6	401.1	230.6	140.0	125.2	122.2	119.3	119.3	119.3
20°	753.0	699.8	554.9	333.1	162.6	123.2	117.3	115.3	114.3	114.3	113.3
22.5°	754.0	695.8	514.5	258.2	125.2	116.3	111.4	110.4	110.4	108.4	108.4
25°	759.9	699.8	471.1	194.2	116.3	109.4	105.5	104.5	105.5	104.5	103.5
27.5°	774.7	706.7	427.8	141.9	109.4	103.5	100.5	99.5	99.5	99.5	97.6
30°	793.4	706.7	379.5	117.3	103.5	97.6	94.6	93.6	92.6	92.6	92.6
32.5°	832.8	729.3	320.3	104.5	95.6	90.7	87.7	87.7	86.7	86.7	85.7
35°	882.1	745.1	260.2	96.6	88.7	83.8	80.8	80.8	79.8	79.8	78.8
37.5°	943.2	784.5	199.1	90.7	81.8	76.9	73.9	73.9	73.9	72.9	72.9
40°	1030.0	825.0	147.8	82.8	74.9	70.0	68.0	67.0	66.0	66.0	64.1
42.5°	1122.6	887.0	110.4	76.9	69.0	65.0	62.1	59.1	59.1	56.2	56.2
45°	1223.1	941.3	89.7	70.0	63.1	58.2	55.2	53.2	50.3	48.3	48.3
47.5°	1321.7	974.8	78.8	62.1	57.2	53.2	50.3	46.3	42.4	41.4	40.4
50°	1401.5	984.6	70.0	56.2	52.2	48.3	44.4	39.4	35.5	33.5	32.5
52.5°	1401.5	930.4	63.1	50.3	47.3	43.4	38.4	32.5	27.6	25.6	24.6
55°	1401.5	844.7	56.2	46.3	42.4	39.4	32.5	26.6	21.7	18.7	17.7
57.5°	1380.8	741.2	50.3	41.4	37.5	33.5	27.6	20.7	15.8	12.8	12.8
60°	1323.7	632.8	43.4	36.5	32.5	27.6	21.7	14.8	9.9	6.9	6.9
62.5°	1250.7	503.6	37.5	30.6	26.6	22.7	16.8	9.9	3.9	2.0	2.0
65°	1123.6	371.6	32.5	25.6	20.7	16.8	10.8	3.9	0.0	0.0	0.0
67.5°	927.5	248.4	25.6	20.7	17.7	11.8	6.9	1.0	0.0	0.0	0.0
70°	652.5	140.9	19.7	14.8	12.8	7.9	2.0	0.0	0.0	0.0	0.0
72.5°	268.1	62.1	13.8	10.8	8.9	3.9	0.0	0.0	0.0	0.0	0.0
75°	72.9	27.6	8.9	5.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.4	18.7	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.5	8.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.5	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	2.0	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)