

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: P674398

Luminaire Tested: **CCP-SA-2A-730-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674398
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-730-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

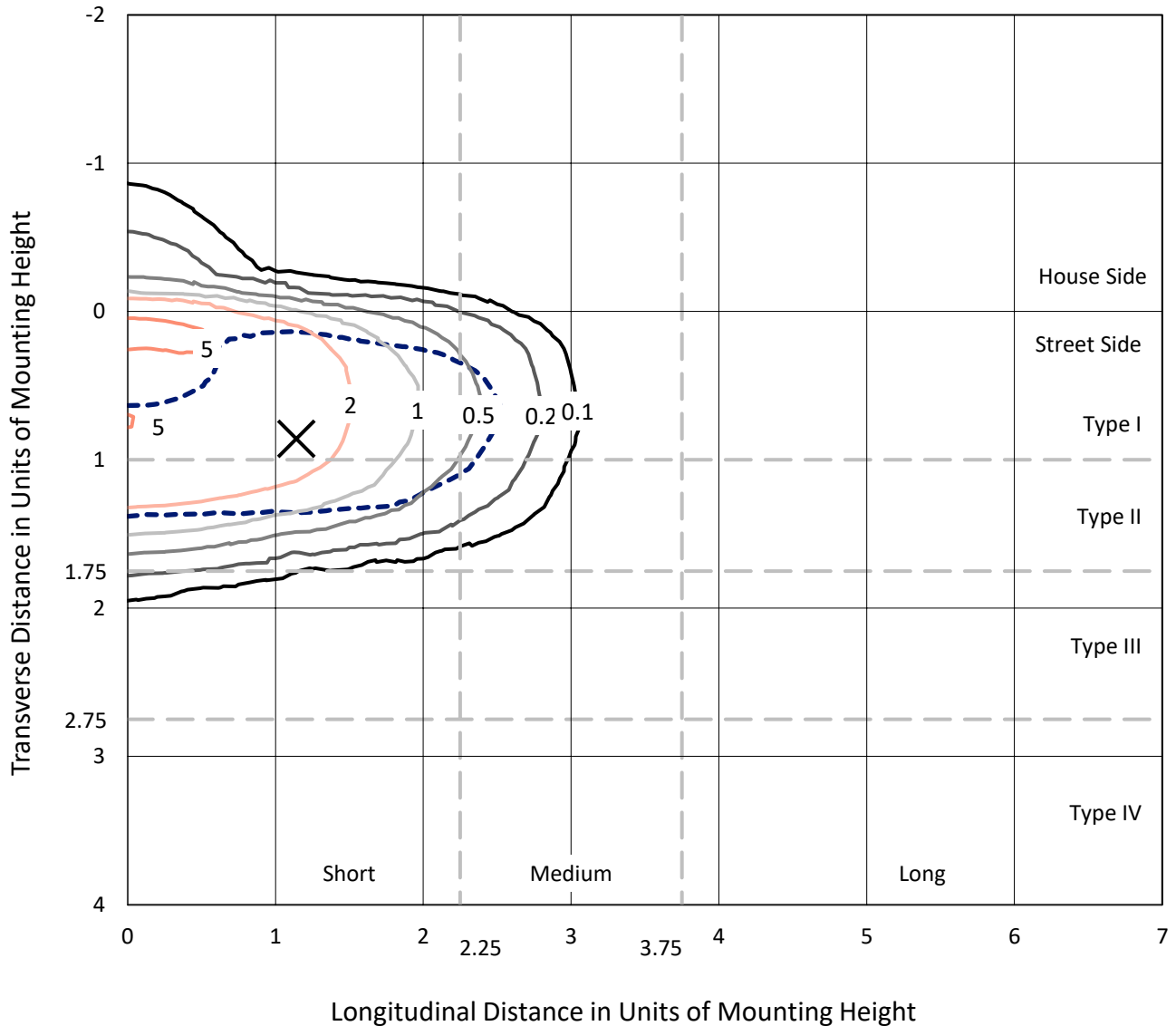
Lumens per Lamp: N/A
Luminaire Lumens: 4131.8 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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

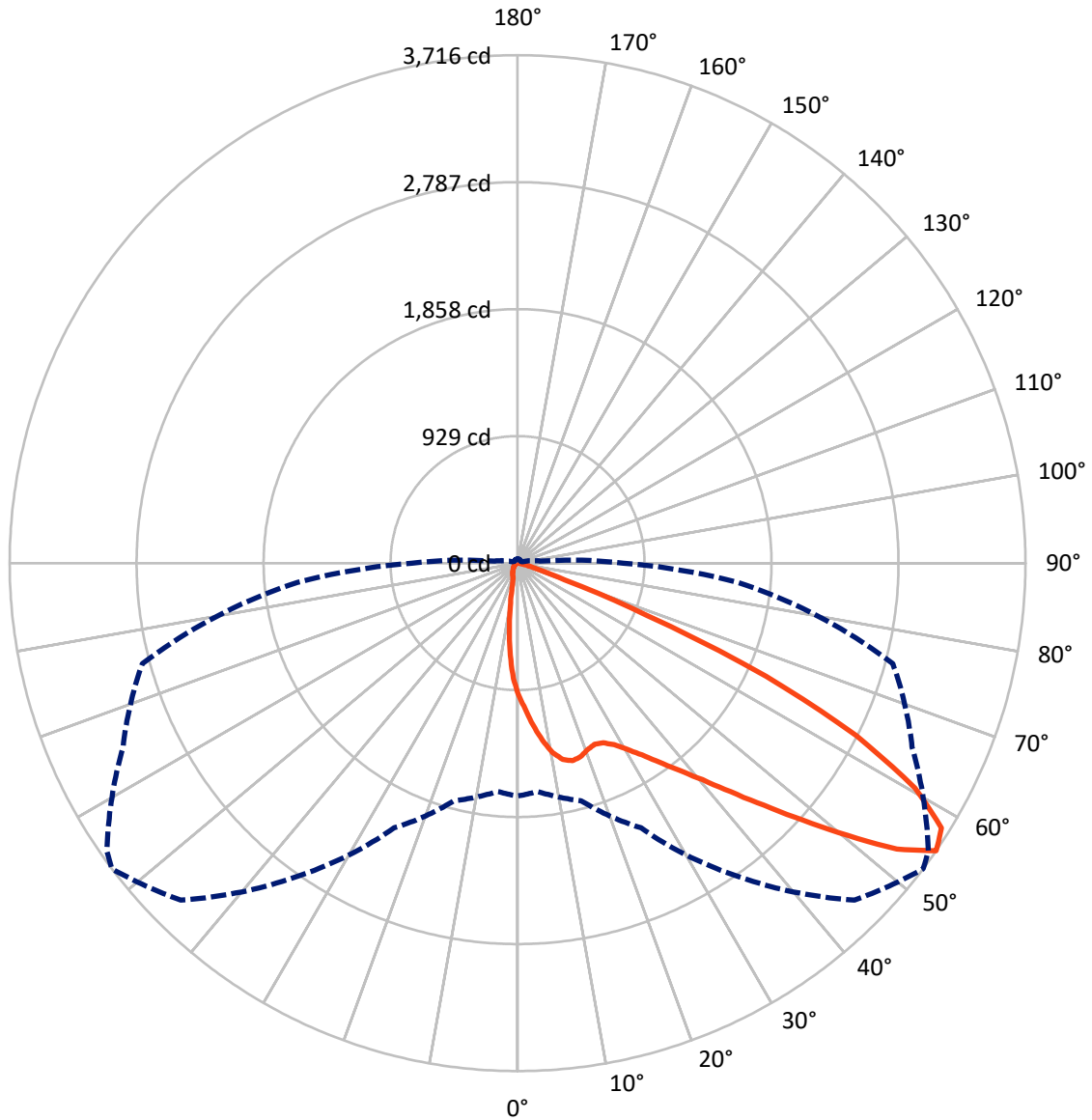
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.3	0.0	223.3
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3908.4	0.0	3908.4
	% Fixture	94.6	0.0	94.6
Total	Lumens	4131.8	0.0	4131.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	2.1
10°-20°	225.9	5.5
20°-30°	378.1	9.2
30°-40°	618.5	15.0
40°-50°	994.3	24.1
50°-60°	1122.6	27.2
60°-70°	598.8	14.5
70°-80°	98.4	2.4
80°-90°	8.8	0.2
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°	4131.8	100.0
0°-180°	4131.8	100.0



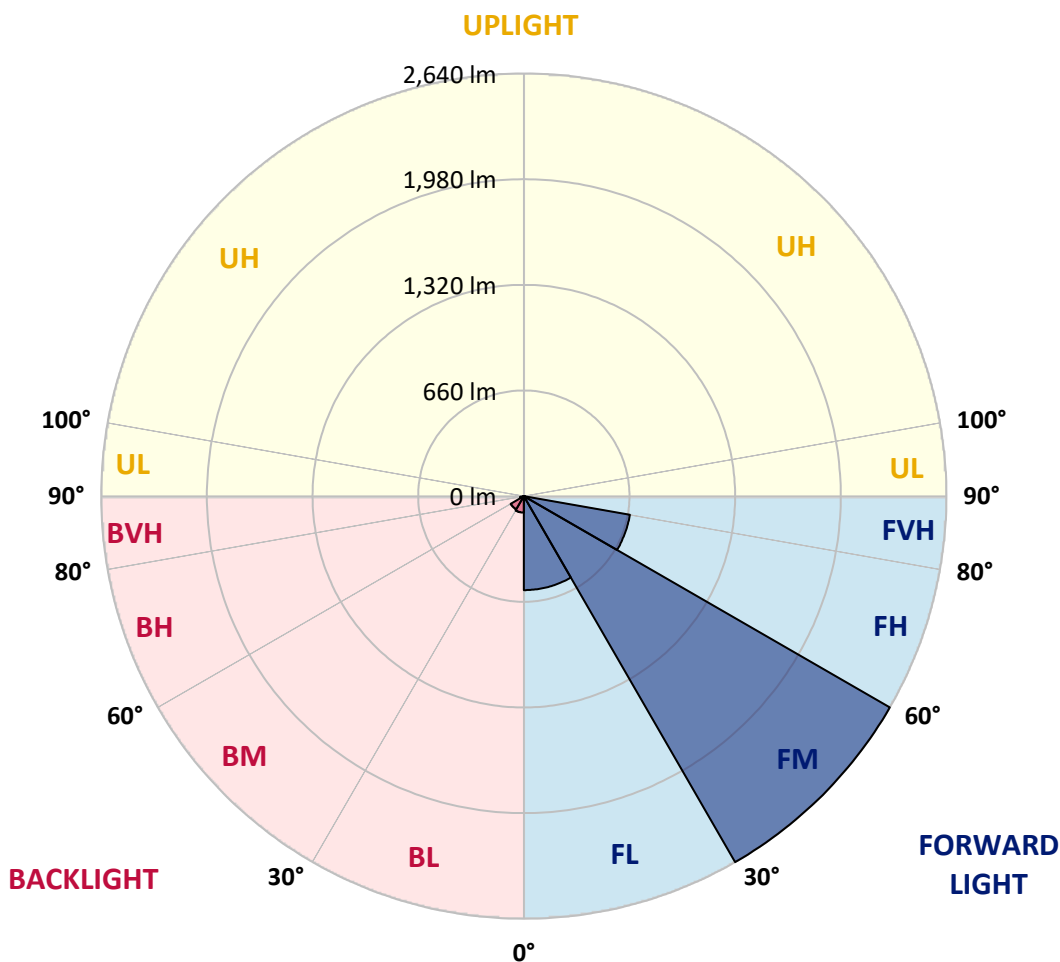
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.4	14.2			
FM (30°-60°)	2640.2	63.9			
FH (60°-80°)	672.8	16.3			G1/1800
FVH (80°-90°)	8.1	0.2			G0/10
BL (0°-30°)	103.1	2.5	B0/110		
BM (30°-60°)	95.1	2.3	B0/220		
BH (60°-80°)	24.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
2.5°	1159.5	1152.6	1156.6	1146.1	1126.9	1103.0	1067.2	1069.0	1040.8	1016.2	982.1
5°	1351.0	1343.8	1341.6	1314.8	1288.0	1244.9	1191.7	1183.0	1131.3	1068.7	997.3
7.5°	1452.0	1445.9	1450.6	1440.8	1414.4	1375.3	1307.9	1301.4	1221.4	1126.6	1021.6
10°	1405.7	1403.5	1423.4	1446.6	1467.9	1463.2	1409.3	1399.2	1309.4	1190.3	1046.6
12.5°	1281.1	1288.0	1313.4	1356.1	1422.0	1483.9	1475.2	1477.0	1399.2	1259.4	1074.1
15°	1208.0	1216.3	1230.8	1252.9	1334.0	1444.1	1500.2	1518.3	1485.3	1336.5	1106.7
17.5°	1201.9	1208.7	1210.9	1219.2	1266.7	1380.0	1490.0	1524.4	1562.1	1409.3	1143.2
20°	1249.3	1252.2	1250.4	1244.2	1261.2	1345.2	1458.2	1507.4	1625.4	1486.8	1175.4
22.5°	1338.7	1334.4	1328.9	1306.1	1305.0	1355.0	1440.8	1492.2	1663.1	1550.8	1196.8
25°	1449.5	1440.4	1432.8	1400.6	1385.4	1406.0	1456.4	1497.6	1697.1	1613.1	1212.0
27.5°	1570.4	1573.3	1554.5	1511.0	1487.1	1482.8	1504.5	1535.3	1730.0	1668.9	1220.3
30°	1699.6	1701.1	1676.5	1631.6	1609.9	1582.0	1580.5	1599.0	1765.5	1732.9	1228.3
32.5°	1847.0	1851.0	1810.8	1764.1	1726.1	1689.9	1672.1	1687.7	1829.2	1816.6	1244.6
35°	2059.8	2042.5	1988.2	1917.6	1863.6	1816.2	1789.0	1799.2	1913.9	1916.8	1277.2
37.5°	2279.2	2277.4	2217.3	2115.6	2027.2	1968.2	1921.9	1938.6	2033.0	2051.1	1329.3
40°	2483.7	2488.4	2436.3	2347.6	2234.0	2132.6	2083.0	2094.2	2191.2	2214.0	1392.6
42.5°	2617.3	2614.8	2618.8	2593.4	2479.4	2359.9	2285.4	2291.5	2375.1	2387.1	1471.9
45°	2678.9	2669.1	2703.1	2783.5	2738.2	2612.6	2527.5	2519.9	2565.9	2562.7	1544.0
47.5°	2625.6	2607.5	2685.7	2879.4	2967.0	2929.0	2807.4	2793.6	2754.5	2728.5	1618.9
50°	2361.0	2353.1	2520.3	2833.8	3110.7	3221.5	3132.1	3081.1	2922.9	2850.8	1658.4
52.5°	2109.4	2087.3	2200.3	2601.0	3046.7	3456.8	3475.3	3384.4	3062.6	2885.9	1645.0
55°	1704.0	1676.8	1799.9	2136.9	2792.9	3486.9	3716.4	3669.0	3185.0	2842.5	1617.8
57.5°	1035.0	1008.2	1189.2	1530.6	2233.6	3237.1	3657.0	3705.2	3279.1	2794.7	1600.1
60°	435.1	418.1	489.1	730.5	1426.3	2660.4	3342.1	3462.3	3296.8	2729.2	1607.3
62.5°	226.3	218.7	222.6	292.5	576.7	1751.8	2781.7	2990.9	3118.0	2700.2	1614.6
65°	169.8	164.0	151.3	160.7	224.1	757.3	1999.0	2279.2	2730.3	2626.7	1565.7
67.5°	139.4	133.9	124.9	122.0	132.1	262.8	1020.5	1384.7	2139.5	2313.6	1390.5
70°	111.1	109.3	106.4	101.0	99.2	127.4	366.0	564.4	1414.7	1631.6	1007.8
72.5°	92.7	93.0	89.8	85.1	78.6	82.2	145.9	193.0	684.6	782.3	422.1
75°	77.5	77.5	78.6	72.0	65.5	56.5	81.1	94.1	219.7	180.6	90.1
77.5°	60.8	61.5	66.2	60.8	52.5	35.5	44.2	50.3	65.2	52.1	32.9
80°	48.5	47.8	46.0	54.7	47.1	25.0	21.0	23.2	30.4	25.0	16.3
82.5°	34.0	33.7	32.2	36.9	36.6	18.5	13.8	14.1	18.5	15.9	10.1
85°	8.3	9.8	20.6	17.4	15.2	10.9	8.3	9.1	11.9	10.5	5.4
87.5°	3.6	3.6	9.4	11.2	7.2	4.7	3.6	4.0	6.2	6.2	3.3
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°	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
2.5°	970.2	946.7	917.0	885.5	853.3	814.5	789.9	769.6	753.7	741.4	737.0
5°	973.8	928.6	861.2	777.6	692.5	612.9	551.3	505.7	468.1	447.4	438.4
7.5°	973.4	913.3	791.7	651.6	513.3	398.6	317.1	266.8	233.1	219.4	211.1
10°	973.1	893.4	712.4	511.9	343.2	231.0	170.1	141.9	129.6	124.9	124.2
12.5°	983.6	870.6	623.7	376.9	215.4	143.7	118.4	111.9	109.0	107.5	107.2
15°	989.4	849.6	530.3	266.1	145.2	113.7	105.7	102.8	101.7	101.0	100.6
17.5°	995.5	817.1	441.7	192.6	116.2	103.2	98.5	96.7	95.9	95.9	95.9
20°	996.6	781.9	353.7	141.9	103.2	96.3	91.6	89.8	88.7	88.0	88.0
22.5°	988.6	740.3	278.0	115.1	95.6	89.8	84.7	81.8	80.0	79.6	79.6
25°	968.7	681.3	213.2	101.0	89.4	83.3	77.1	73.8	72.4	72.4	72.4
27.5°	940.1	611.8	164.7	89.8	81.5	75.3	69.9	67.0	66.6	66.2	66.6
30°	907.6	544.8	126.0	79.6	72.0	67.0	62.6	61.2	61.9	61.9	62.3
32.5°	875.0	477.9	98.5	71.7	63.7	59.4	57.2	57.2	58.3	58.3	58.3
35°	847.1	412.3	82.5	65.2	57.9	54.3	53.2	54.3	55.0	55.4	55.4
37.5°	831.5	355.9	72.8	59.4	53.2	50.3	50.0	51.0	52.5	53.6	53.9
40°	825.7	312.4	67.0	55.0	48.9	47.1	46.7	48.1	50.7	52.5	52.9
42.5°	826.1	274.0	61.9	50.7	46.0	43.4	43.4	45.6	48.1	50.0	50.0
45°	828.6	241.1	56.8	46.3	43.4	39.1	39.5	42.4	44.2	46.0	46.0
47.5°	830.8	214.7	51.4	41.6	37.6	35.5	36.2	38.4	40.9	43.8	43.8
50°	818.1	195.8	46.0	36.6	32.9	32.2	33.7	35.5	39.1	42.0	42.4
52.5°	787.7	178.8	41.3	32.6	29.7	30.0	31.9	32.9	35.8	36.2	36.6
55°	774.3	170.1	37.6	29.7	27.2	28.2	29.3	29.7	29.0	27.2	27.2
57.5°	771.4	164.4	34.0	26.8	25.0	26.4	26.1	23.9	21.7	19.5	19.2
60°	774.3	156.4	31.1	23.2	22.8	23.2	22.1	18.1	15.2	13.8	13.0
62.5°	757.7	144.8	28.6	19.9	19.9	19.5	16.7	12.3	9.8	8.7	8.3
65°	702.7	122.0	26.1	16.7	16.3	15.6	11.2	8.3	6.5	5.4	5.1
67.5°	594.4	94.5	23.5	13.8	13.0	10.9	7.2	5.4	3.6	3.3	2.9
70°	405.4	58.6	19.9	10.9	9.8	6.9	4.3	3.3	2.2	1.8	1.4
72.5°	147.0	34.0	16.7	8.3	6.5	4.3	2.5	1.4	1.1	1.1	0.7
75°	34.8	23.9	12.7	6.2	4.3	2.5	1.4	1.1	0.7	0.7	0.4
77.5°	15.9	18.5	8.3	3.6	2.9	1.8	1.1	0.7	0.4	0.4	0.0
80°	9.1	13.0	4.0	2.5	2.2	1.4	0.7	0.4	0.4	0.0	0.0
82.5°	4.7	7.2	2.9	2.2	1.8	1.1	0.7	0.0	0.0	0.0	0.0
85°	3.3	3.6	2.2	1.8	1.4	1.1	0.7	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.2	1.8	1.4	1.1	0.4	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)