

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: P676469

Luminaire Tested: **CCW-SA-2B-830-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676469
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.4 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

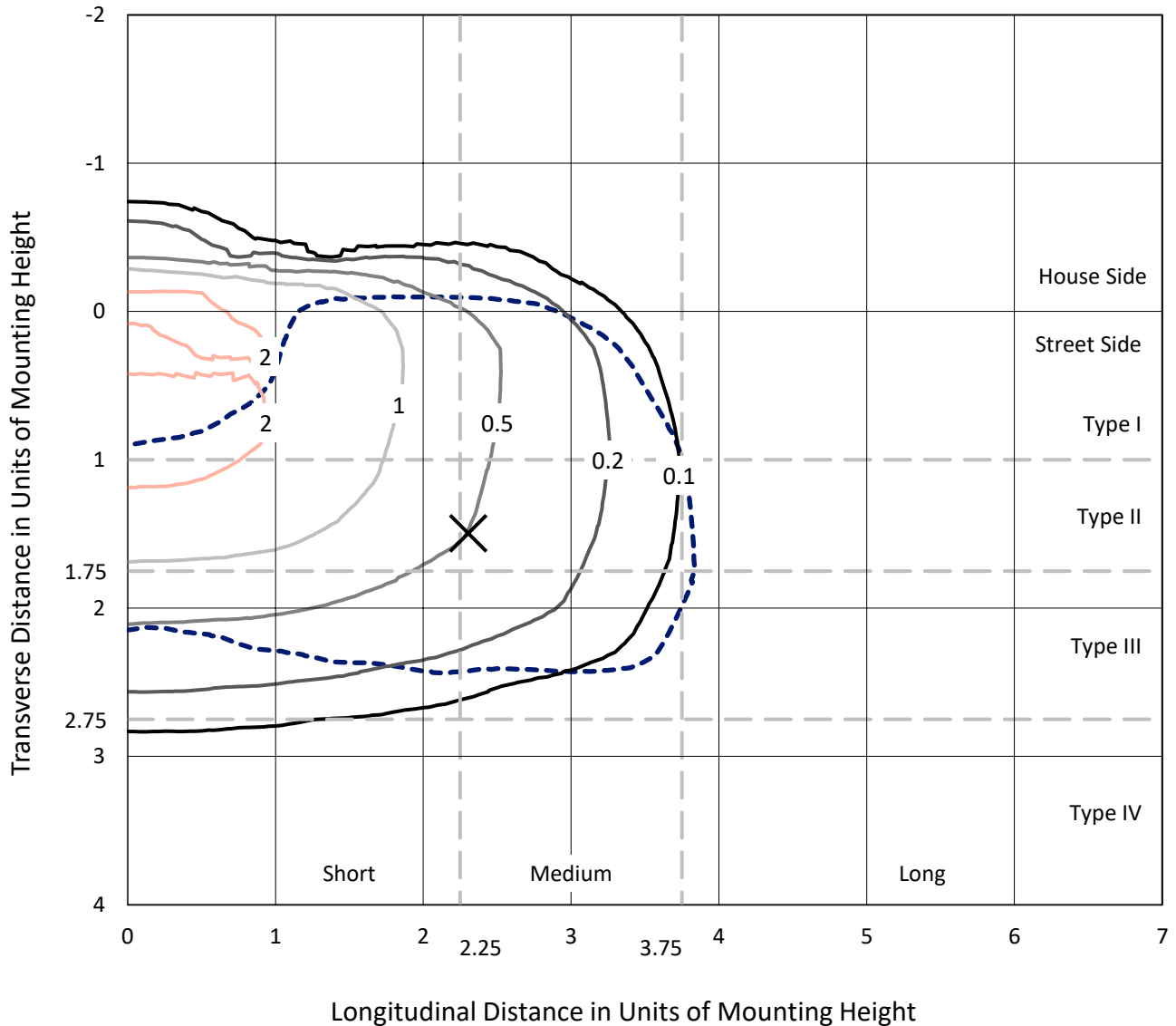
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

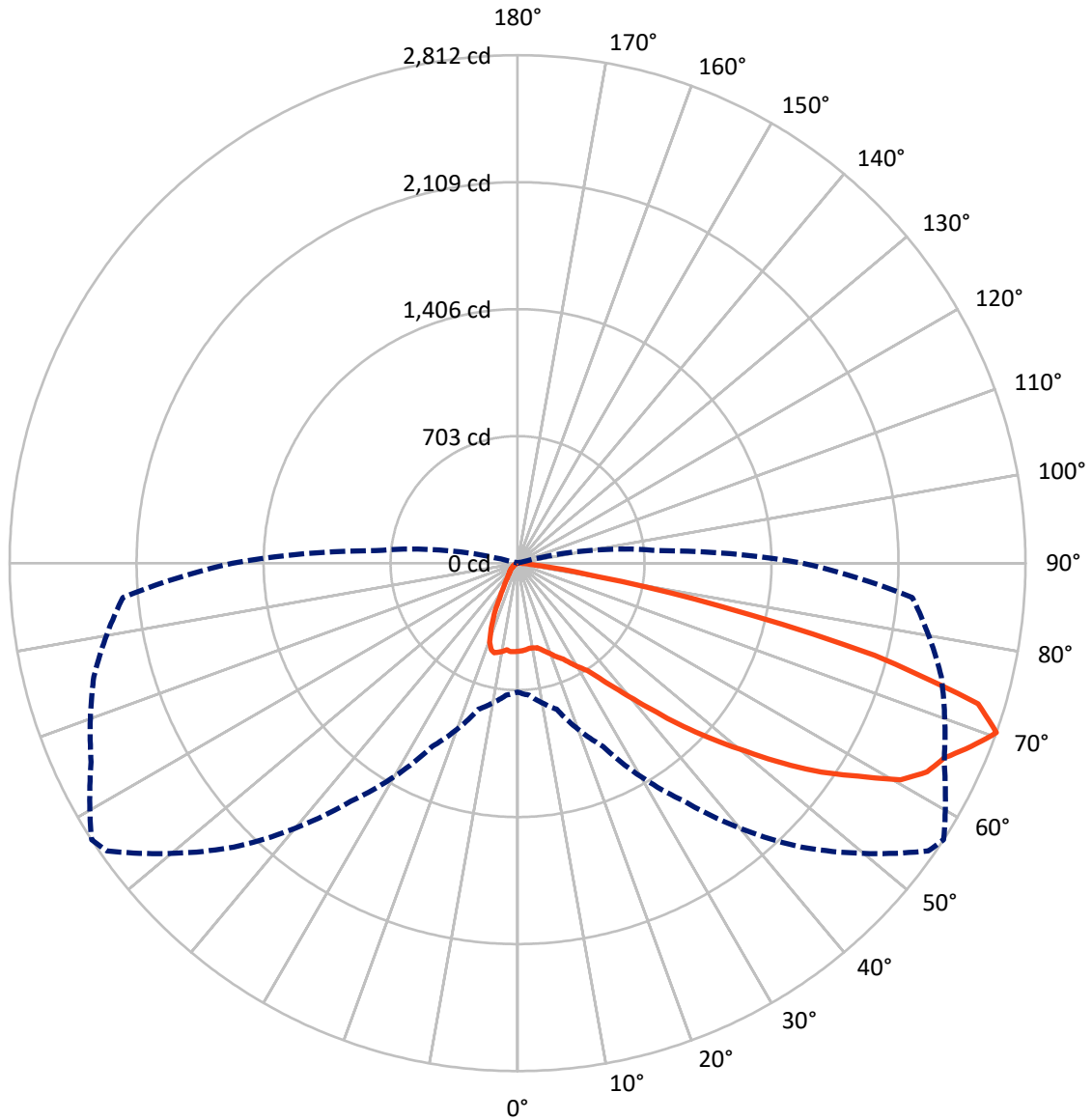
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	466.0	0.0	466.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3487.4	0.0	3487.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	3953.4	0.0	3953.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	127.4	3.2
20°-30°	214.7	5.4
30°-40°	367.4	9.3
40°-50°	616.9	15.6
50°-60°	947.0	24.0
60°-70°	1093.3	27.7
70°-80°	516.5	13.1
80°-90°	24.5	0.6
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°	3953.4	100.0
0°-180°	3953.4	100.0

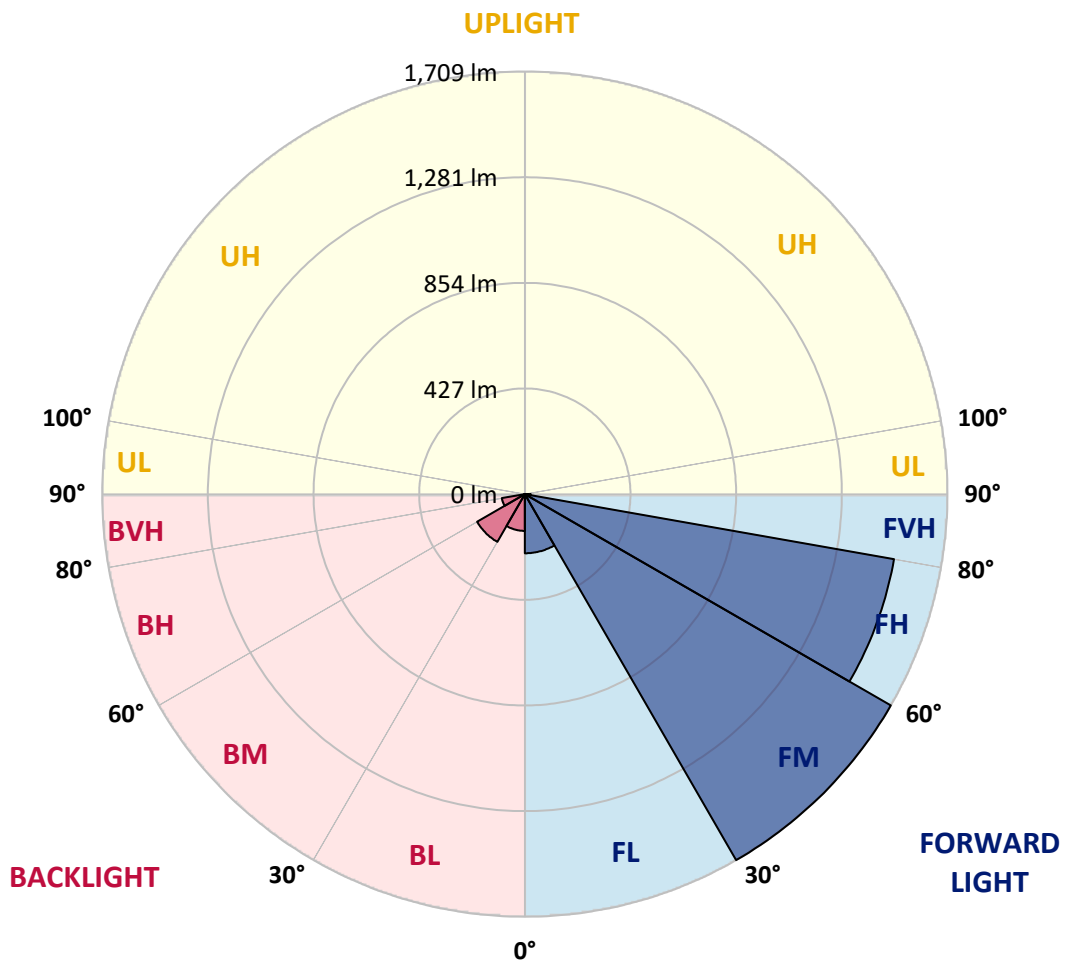


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.2	6.0			
FM (30°-60°)	1708.6	43.2			
FH (60°-80°)	1515.6	38.3			G1/1800
FVH (80°-90°)	24.1	0.6			G1/100
BL (0°-30°)	148.6	3.8	B1/500		
BM (30°-60°)	222.7	5.6	B1/1000		
BH (60°-80°)	94.2	2.4	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: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8
2.5°	480.7	477.7	480.7	484.8	480.7	483.8	482.7	485.8	481.7	481.7	484.8
5°	449.4	454.5	456.5	461.5	466.6	475.7	481.7	481.7	487.8	490.8	494.9
7.5°	438.3	430.2	438.3	442.3	447.4	462.5	471.6	475.7	483.8	494.9	500.9
10°	422.2	428.2	428.2	441.3	448.4	457.5	473.7	476.7	494.9	506.0	512.0
12.5°	421.1	421.1	426.2	435.3	449.4	466.6	486.8	480.7	499.9	520.1	530.2
15°	424.2	431.2	431.2	443.4	454.5	478.7	495.9	496.9	524.2	544.4	553.4
17.5°	437.3	434.3	438.3	445.4	462.5	485.8	514.1	517.1	548.4	575.7	588.8
20°	464.6	469.6	463.6	459.5	466.6	496.9	533.2	539.3	574.6	600.9	614.0
22.5°	566.6	562.5	538.3	510.0	497.9	512.0	551.4	565.6	607.0	638.3	649.4
25°	681.7	674.6	646.4	603.9	548.4	542.3	587.8	587.8	647.4	681.7	678.7
27.5°	790.8	788.8	755.4	711.0	632.2	588.8	617.1	628.2	692.8	721.1	708.0
30°	901.9	903.9	873.6	820.1	737.2	663.5	658.5	667.6	727.1	771.6	744.3
32.5°	1031.1	1013.0	991.7	918.0	842.3	759.5	712.0	708.0	765.5	805.9	769.6
35°	1146.3	1135.2	1111.9	1045.3	958.4	859.4	792.8	782.7	814.0	867.5	828.1
37.5°	1247.3	1236.2	1205.9	1161.4	1093.8	983.7	889.7	874.6	887.7	944.3	896.8
40°	1334.1	1337.1	1329.1	1285.6	1223.0	1123.0	1015.0	990.7	979.6	1030.1	976.6
42.5°	1396.7	1426.0	1428.0	1374.5	1324.0	1269.5	1148.3	1129.1	1102.8	1145.3	1107.9
45°	1528.0	1511.9	1522.0	1502.8	1447.2	1439.1	1301.8	1290.7	1254.3	1268.5	1229.1
47.5°	1631.0	1628.0	1647.2	1615.9	1600.7	1601.7	1476.5	1457.3	1405.8	1432.1	1387.6
50°	1690.6	1674.5	1744.1	1768.4	1765.4	1777.5	1653.3	1637.1	1587.6	1626.0	1531.1
52.5°	1704.8	1734.0	1799.7	1887.6	1924.9	1950.2	1846.1	1840.1	1786.6	1810.8	1679.5
55°	1740.1	1768.4	1806.8	1951.2	2089.5	2095.6	2036.0	2042.1	1994.6	1988.5	1820.9
57.5°	1739.1	1733.0	1839.1	2006.7	2198.6	2285.5	2253.2	2223.9	2172.4	2112.8	1911.8
60°	1675.5	1672.4	1782.5	2013.8	2258.2	2457.2	2470.3	2435.9	2306.7	2218.8	2018.8
62.5°	1549.2	1561.3	1672.4	1953.2	2314.8	2518.8	2567.2	2544.0	2383.4	2289.5	2145.1
65°	1404.8	1379.6	1508.8	1801.7	2187.5	2500.6	2605.6	2597.5	2474.3	2366.3	2261.2
67.5°	1127.1	1138.2	1237.2	1550.2	1970.4	2433.9	2695.5	2707.6	2547.0	2433.9	2296.6
70°	714.0	734.2	837.2	1120.0	1608.8	2223.9	2776.3	2811.6	2604.6	2427.9	2193.6
72.5°	208.0	216.1	356.5	558.5	1025.1	1783.5	2647.0	2665.2	2492.5	2203.7	1696.7
75°	68.7	72.7	105.0	181.8	402.0	922.1	1955.2	2041.1	1983.5	1597.7	970.5
77.5°	45.4	47.5	57.6	86.9	152.5	288.8	1048.3	1140.2	1118.0	748.4	313.1
80°	33.3	34.3	42.4	58.6	92.9	104.0	386.8	447.4	432.2	171.7	62.6
82.5°	21.2	21.2	31.3	41.4	58.6	51.5	112.1	124.2	121.2	65.6	24.2
85°	14.1	15.1	23.2	32.3	32.3	24.2	32.3	37.4	40.4	35.3	11.1
87.5°	4.0	5.0	13.1	22.2	13.1	12.1	11.1	12.1	14.1	19.2	6.1
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°	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8
2.5°	487.8	491.8	490.8	492.8	489.8	486.8	489.8	489.8	489.8	486.8	484.8
5°	491.8	489.8	491.8	487.8	491.8	487.8	485.8	479.7	478.7	478.7	482.7
7.5°	497.9	499.9	490.8	490.8	481.7	483.8	478.7	479.7	477.7	474.7	472.6
10°	507.0	515.1	506.0	502.9	492.8	484.8	472.6	466.6	466.6	462.5	466.6
12.5°	532.2	529.2	524.2	514.1	501.9	485.8	456.5	427.2	403.0	384.8	393.9
15°	552.4	551.4	544.4	525.2	509.0	459.5	385.8	310.0	269.7	251.5	248.4
17.5°	583.7	580.7	568.6	543.3	489.8	380.7	264.6	201.0	161.6	152.5	149.5
20°	613.0	612.0	585.8	553.4	441.3	277.7	172.7	132.3	121.2	122.2	120.2
22.5°	644.3	639.3	608.0	541.3	351.5	184.8	123.2	118.2	114.1	113.1	115.1
25°	679.7	661.5	630.2	514.1	258.5	127.3	116.1	112.1	108.1	107.1	107.1
27.5°	693.8	681.7	640.3	448.4	163.6	111.1	109.1	104.0	99.0	95.9	94.9
30°	726.1	705.9	650.4	352.5	116.1	102.0	99.0	92.9	85.8	80.8	80.8
32.5°	758.5	734.2	651.4	246.4	97.0	91.9	86.9	78.8	69.7	64.6	65.6
35°	798.9	765.5	640.3	159.6	86.9	80.8	70.7	61.6	53.5	49.5	49.5
37.5°	867.5	836.2	594.8	105.0	78.8	68.7	58.6	48.5	41.4	38.4	38.4
40°	954.4	914.0	532.2	82.8	69.7	58.6	46.5	37.4	33.3	30.3	30.3
42.5°	1058.4	1007.9	439.3	73.7	61.6	48.5	36.4	29.3	25.2	25.2	24.2
45°	1162.4	1079.6	344.4	67.7	54.5	40.4	28.3	23.2	21.2	20.2	20.2
47.5°	1310.9	1166.5	246.4	61.6	47.5	31.3	23.2	19.2	17.2	16.2	17.2
50°	1453.3	1248.3	174.7	55.5	39.4	25.2	19.2	17.2	15.1	14.1	14.1
52.5°	1578.5	1304.8	122.2	48.5	33.3	21.2	17.2	15.1	14.1	13.1	13.1
55°	1647.2	1285.6	83.8	41.4	27.3	18.2	15.1	13.1	12.1	11.1	11.1
57.5°	1717.9	1232.1	63.6	34.3	22.2	17.2	14.1	12.1	11.1	10.1	10.1
60°	1777.5	1192.7	49.5	27.3	18.2	14.1	12.1	10.1	9.1	8.1	7.1
62.5°	1780.5	1114.0	36.4	20.2	14.1	12.1	10.1	8.1	5.0	4.0	3.0
65°	1792.6	1031.1	26.3	15.1	10.1	9.1	7.1	4.0	2.0	0.0	0.0
67.5°	1750.2	933.2	21.2	11.1	7.1	5.0	3.0	1.0	0.0	0.0	0.0
70°	1577.5	787.7	16.2	8.1	5.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	1129.1	512.0	11.1	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	601.9	218.1	8.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	188.9	55.5	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.4	15.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	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)