

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: P676642

Luminaire Tested: **CCW-SA-1D-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676642
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

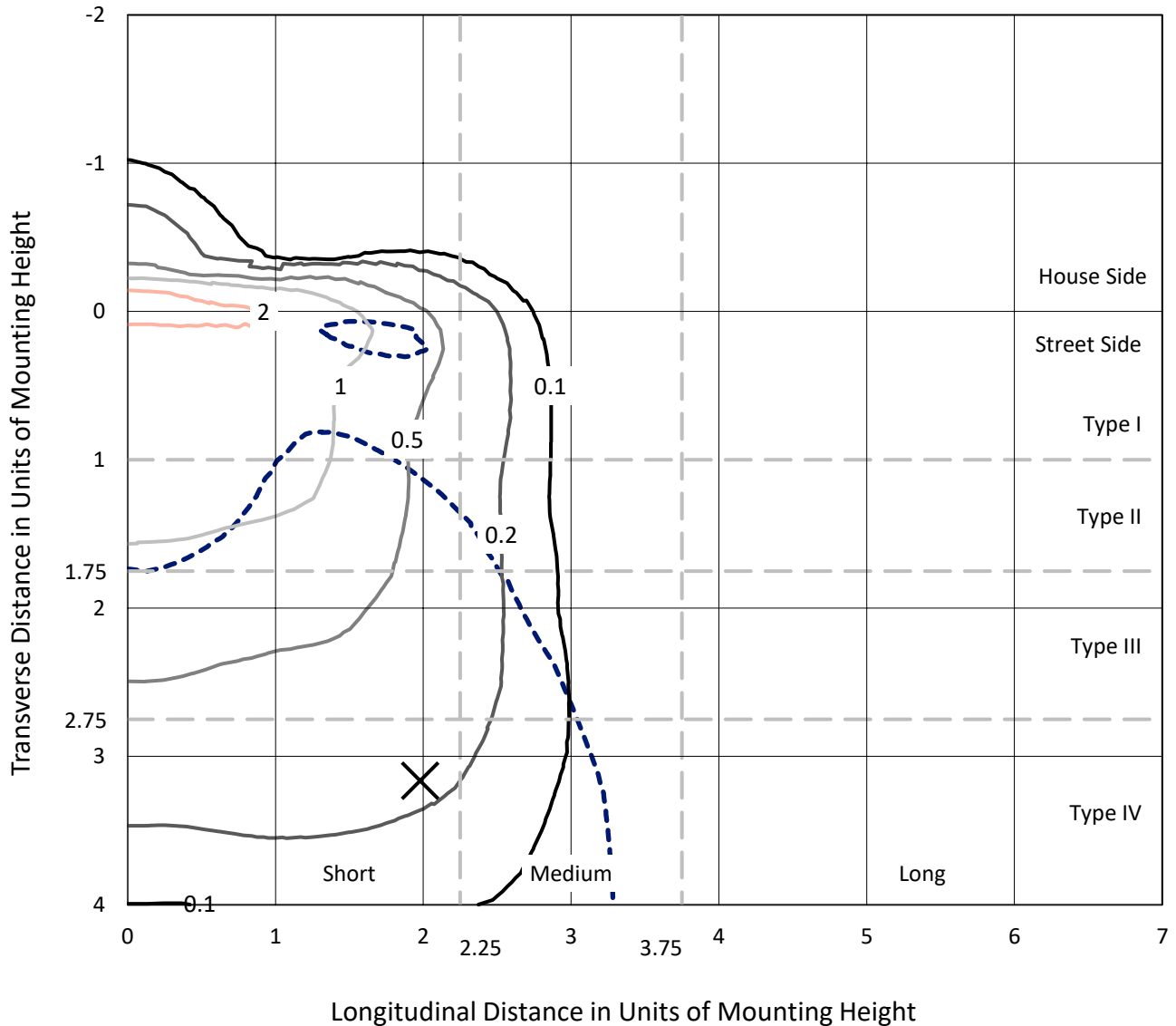
Lumens per Lamp: N/A
Luminaire Lumens: 3494.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P676642
 CATALOG NUMBER: CCW-SA-1D-850-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

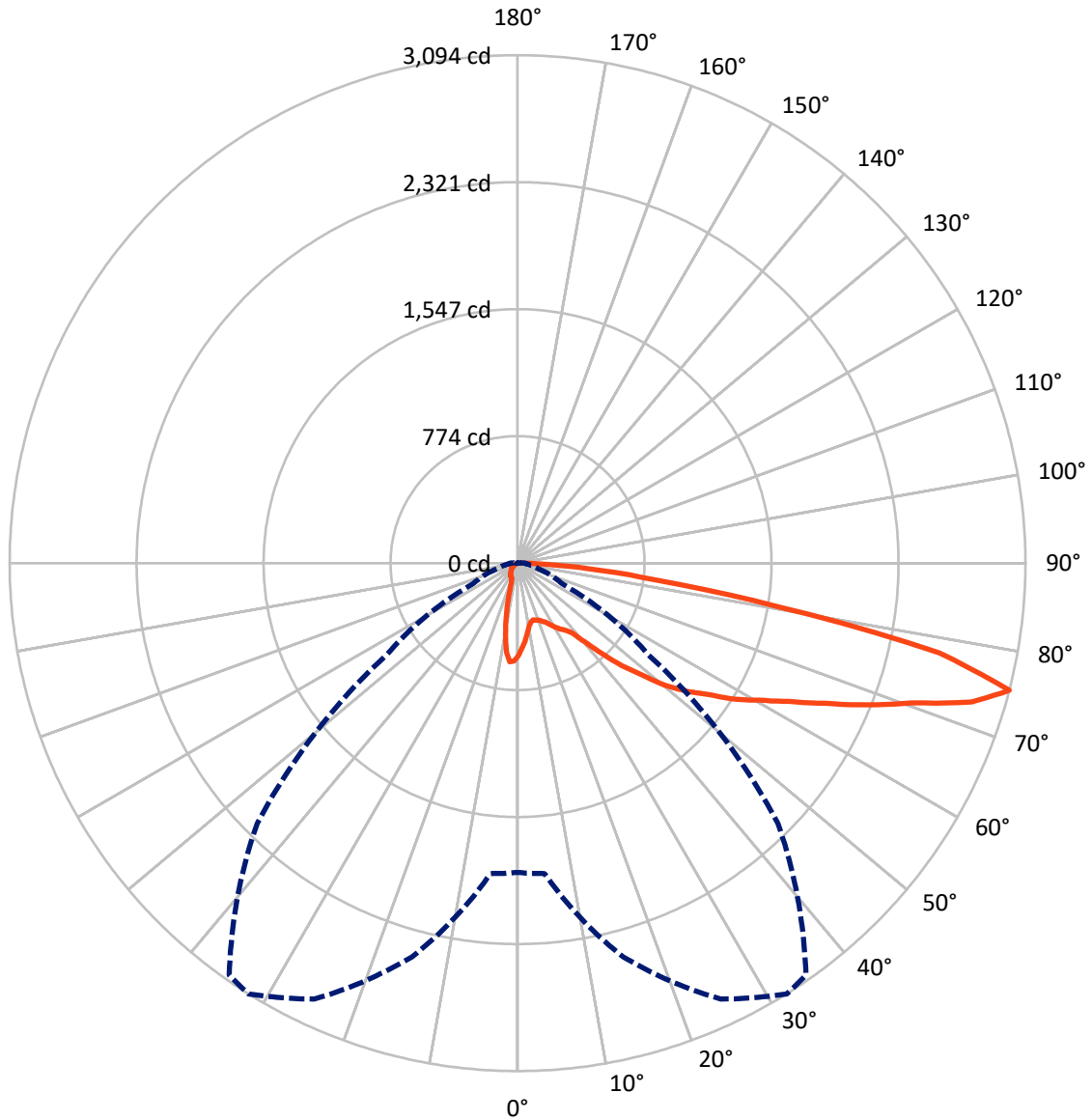
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P676642
CATALOG NUMBER: CCW-SA-1D-850-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	377.5	0.0	377.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3116.8	0.0	3116.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	3494.3	0.0	3494.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.4
10°-20°	112.6	3.2
20°-30°	168.5	4.8
30°-40°	258.7	7.4
40°-50°	452.4	12.9
50°-60°	707.2	20.2
60°-70°	914.3	26.2
70°-80°	744.7	21.3
80°-90°	86.2	2.5
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°	3494.3	100.0
0°-180°	3494.3	100.0



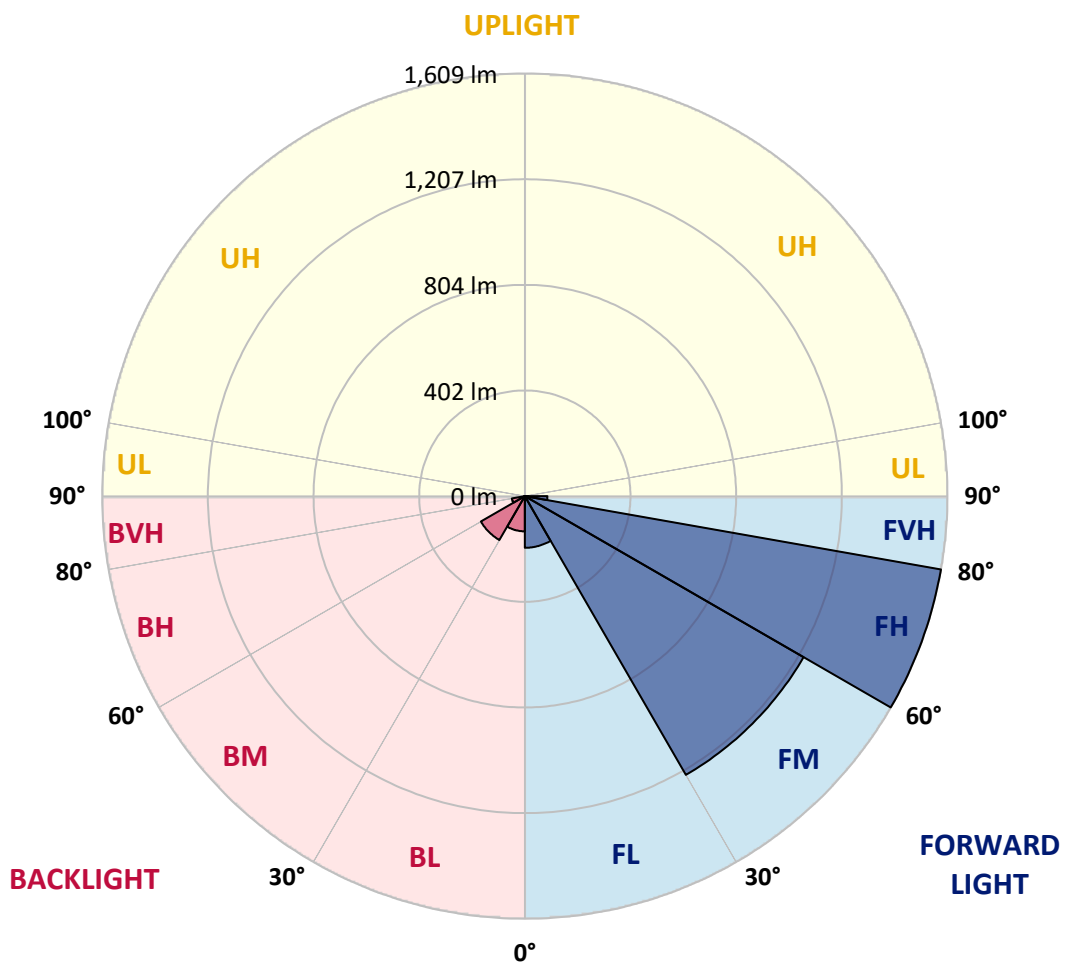
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.6	5.6			
FM (30°-60°)	1225.2	35.1			
FH (60°-80°)	1608.8	46.0			G1/1800
FVH (80°-90°)	86.1	2.5			G1/100
BL (0°-30°)	134.1	3.8	B1/500		
BM (30°-60°)	193.1	5.5	B0/220		
BH (60°-80°)	50.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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





REPORT NUMBER: P676642

CATALOG NUMBER: CCW-SA-1D-850-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	506.0	513.2	512.3	516.8	517.7	520.3	526.6	526.6	544.5	557.1	565.1
5°	460.3	455.9	457.6	463.0	476.5	475.6	490.8	498.8	520.3	538.2	557.1
7.5°	403.9	403.0	406.6	419.1	429.0	437.0	453.2	473.8	502.4	529.3	562.4
10°	368.1	366.3	373.5	377.0	388.7	394.1	419.1	451.4	485.4	523.9	562.4
12.5°	360.0	353.8	357.3	356.4	367.2	369.9	394.1	433.5	474.7	522.1	569.6
15°	364.5	360.0	356.4	356.4	359.1	360.9	386.9	421.8	468.4	524.8	585.7
17.5°	378.8	376.1	365.4	354.7	366.3	366.3	382.4	419.1	469.3	532.9	605.4
20°	395.9	393.2	374.4	361.8	369.9	378.8	395.9	425.4	472.0	539.1	635.9
22.5°	414.7	414.7	388.7	374.4	385.1	386.0	416.4	445.1	482.7	555.3	655.6
25°	437.9	436.2	411.1	395.0	398.5	408.4	436.2	466.6	502.4	577.7	692.3
27.5°	468.4	465.7	436.2	420.0	424.5	435.3	466.6	497.1	520.3	586.6	723.6
30°	493.5	490.8	466.6	442.4	452.3	462.1	498.8	525.7	542.7	603.6	759.5
32.5°	498.8	494.4	478.2	467.5	478.2	497.1	525.7	553.5	579.4	646.6	827.5
35°	560.6	544.5	502.4	485.4	501.5	507.8	555.3	604.5	629.6	680.6	903.7
37.5°	678.9	663.6	608.1	560.6	538.2	545.4	607.2	668.1	692.3	744.2	986.9
40°	823.9	798.9	739.8	676.2	630.5	621.5	661.8	751.4	774.7	823.9	1096.2
42.5°	989.6	965.4	874.1	798.9	752.3	740.7	746.9	848.1	867.8	897.4	1167.8
45°	1108.7	1096.2	993.2	926.0	889.3	876.8	861.6	953.8	978.9	988.7	1271.7
47.5°	1177.7	1168.7	1111.4	1065.8	1016.5	1003.1	1012.9	1100.7	1083.7	1091.7	1371.1
50°	1269.9	1246.7	1168.7	1183.1	1173.2	1169.6	1186.7	1225.2	1200.1	1176.8	1479.5
52.5°	1344.3	1303.1	1248.5	1283.4	1298.6	1312.0	1372.0	1400.7	1288.8	1252.9	1549.4
55°	1390.0	1350.5	1364.9	1397.1	1413.2	1475.0	1545.8	1524.3	1347.0	1313.8	1642.5
57.5°	1431.2	1433.8	1472.3	1482.2	1564.6	1575.3	1711.5	1641.6	1388.2	1369.4	1679.2
60°	1530.6	1520.7	1552.1	1615.6	1694.5	1754.5	1884.3	1720.4	1408.8	1398.0	1669.4
62.5°	1709.7	1648.8	1659.5	1740.1	1855.7	1921.0	1983.7	1756.3	1403.4	1402.5	1639.8
65°	1937.2	1867.3	1835.1	1910.3	2059.9	2152.1	2095.7	1796.6	1367.6	1392.6	1529.7
67.5°	2126.1	2127.0	2067.0	2109.1	2304.4	2324.1	2201.4	1788.5	1307.6	1314.7	1261.0
70°	2343.8	2373.3	2320.5	2452.1	2549.7	2562.3	2322.3	1722.2	1178.6	991.4	724.5
72.5°	2399.3	2414.5	2579.3	2781.7	2891.9	2895.4	2441.4	1501.0	775.6	437.9	224.8
75°	1884.3	1898.7	2482.6	2930.4	3094.3	3062.9	2242.6	974.4	301.8	128.1	53.7
77.5°	1051.4	1055.9	1541.3	2368.8	2625.0	2498.7	1570.9	379.7	121.8	73.4	25.1
80°	287.5	337.6	571.4	1167.8	1603.1	1573.6	747.8	123.6	78.8	57.3	11.6
82.5°	69.0	74.3	183.6	516.8	847.2	883.9	223.0	62.7	54.6	47.5	6.3
85°	25.1	27.8	56.4	251.7	435.3	399.4	67.2	31.3	40.3	36.7	2.7
87.5°	9.0	9.0	17.9	82.4	127.2	95.8	22.4	10.7	20.6	22.4	0.9
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°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	566.0	566.0	578.6	589.3	592.9	597.4	592.9	602.7	601.8	597.4	599.1
5°	566.9	583.0	593.8	600.9	604.5	603.6	605.4	594.7	588.4	583.9	579.4
7.5°	571.4	586.6	606.3	604.5	594.7	574.1	558.0	529.3	501.5	500.6	496.2
10°	586.6	600.0	611.7	604.5	568.7	506.0	455.0	416.4	381.5	365.4	367.2
12.5°	597.4	622.4	617.1	580.3	506.0	423.6	348.4	292.0	260.6	231.1	231.1
15°	619.7	628.7	626.9	545.4	429.0	330.5	239.1	181.8	148.7	135.2	133.4
17.5°	641.2	651.1	620.6	492.6	352.9	222.1	145.1	112.8	108.4	106.6	107.5
20°	668.1	669.0	615.3	439.7	265.1	140.6	103.9	101.2	102.1	101.2	101.2
22.5°	696.8	703.0	596.5	365.4	176.4	102.1	96.7	97.6	97.6	97.6	100.3
25°	734.4	724.5	566.9	294.6	115.5	94.0	94.0	94.9	94.9	94.9	95.8
27.5°	759.5	746.0	529.3	212.3	90.5	88.7	90.5	90.5	92.2	92.2	92.2
30°	811.4	776.5	481.8	137.0	81.5	84.2	86.0	87.8	88.7	90.5	91.4
32.5°	851.7	803.3	422.7	91.4	74.3	76.1	80.6	84.2	87.8	86.9	86.9
35°	925.1	847.2	368.1	72.5	68.1	68.1	72.5	78.8	84.2	86.0	86.0
37.5°	1009.3	883.1	292.0	66.3	62.7	62.7	65.4	72.5	79.7	83.3	81.5
40°	1079.2	924.2	215.8	61.8	58.2	58.2	60.0	65.4	73.4	79.7	80.6
42.5°	1128.4	954.7	146.0	57.3	54.6	53.7	56.4	59.1	65.4	74.3	76.1
45°	1173.2	970.8	90.5	52.8	51.0	51.0	51.0	53.7	58.2	66.3	68.1
47.5°	1252.9	988.7	65.4	49.3	46.6	47.5	48.4	49.3	52.8	54.6	55.5
50°	1320.1	1002.2	53.7	45.7	43.9	44.8	44.8	44.8	46.6	43.9	43.9
52.5°	1371.1	988.7	45.7	42.1	40.3	41.2	40.3	40.3	38.5	34.9	34.9
55°	1408.8	964.6	36.7	38.5	38.5	38.5	36.7	34.0	30.5	27.8	27.8
57.5°	1418.6	923.4	28.7	32.2	34.9	34.9	31.3	27.8	23.3	20.6	19.7
60°	1403.4	833.8	21.5	23.3	26.9	27.8	25.1	20.6	16.1	13.4	13.4
62.5°	1348.8	763.0	17.0	15.2	19.7	20.6	17.9	13.4	9.0	6.3	5.4
65°	1244.9	653.8	12.5	10.7	13.4	14.3	11.6	6.3	2.7	0.9	0.0
67.5°	998.6	492.6	8.1	7.2	9.0	9.0	5.4	1.8	0.0	0.0	0.0
70°	552.6	276.7	5.4	3.6	4.5	2.7	0.9	0.0	0.0	0.0	0.0
72.5°	159.4	78.8	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	43.0	18.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.8	7.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)