

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: P676604

Luminaire Tested: **CCW-SA-2D-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676604
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

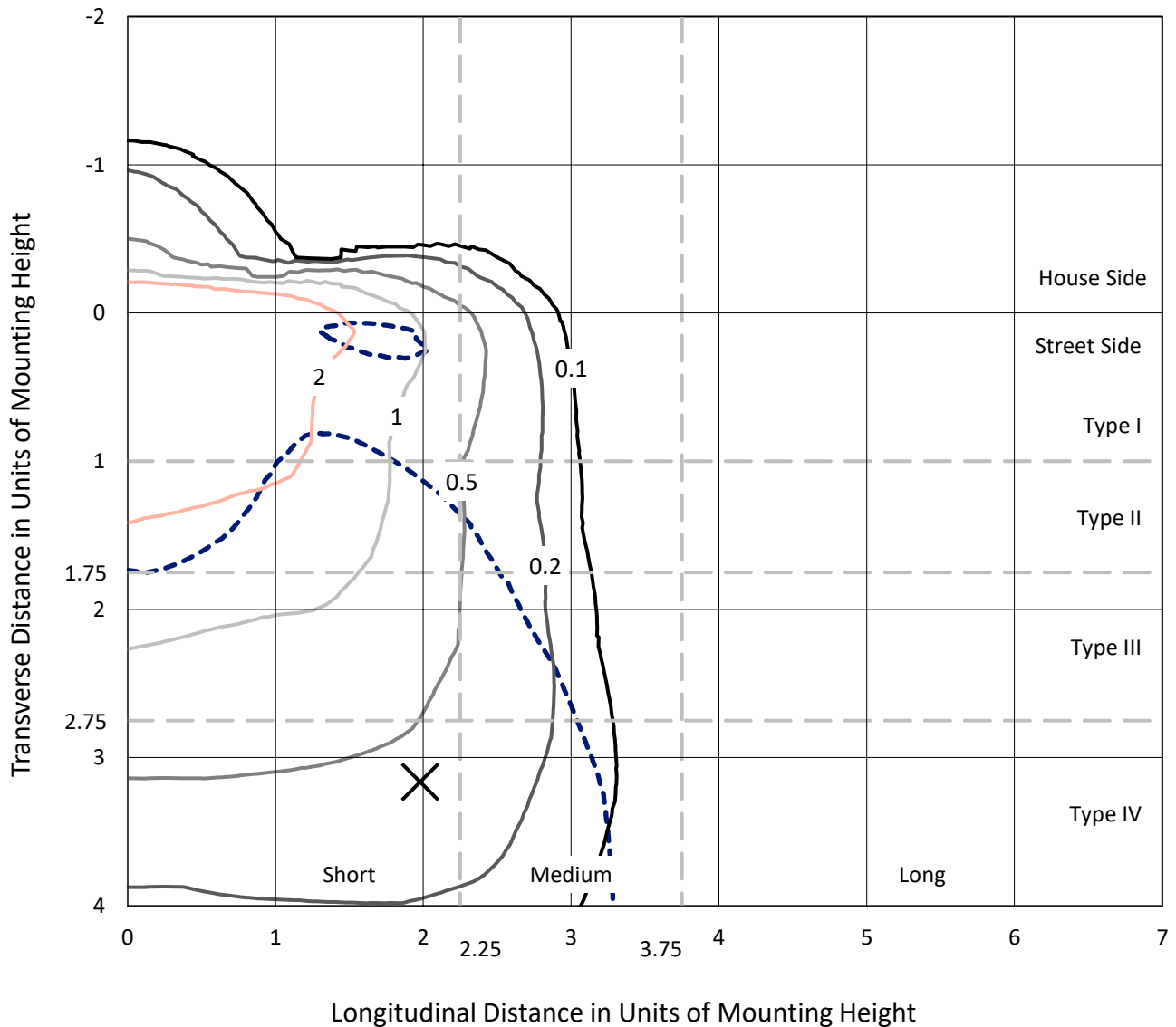
Lumens per Lamp: N/A
Luminaire Lumens: 5886.8 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

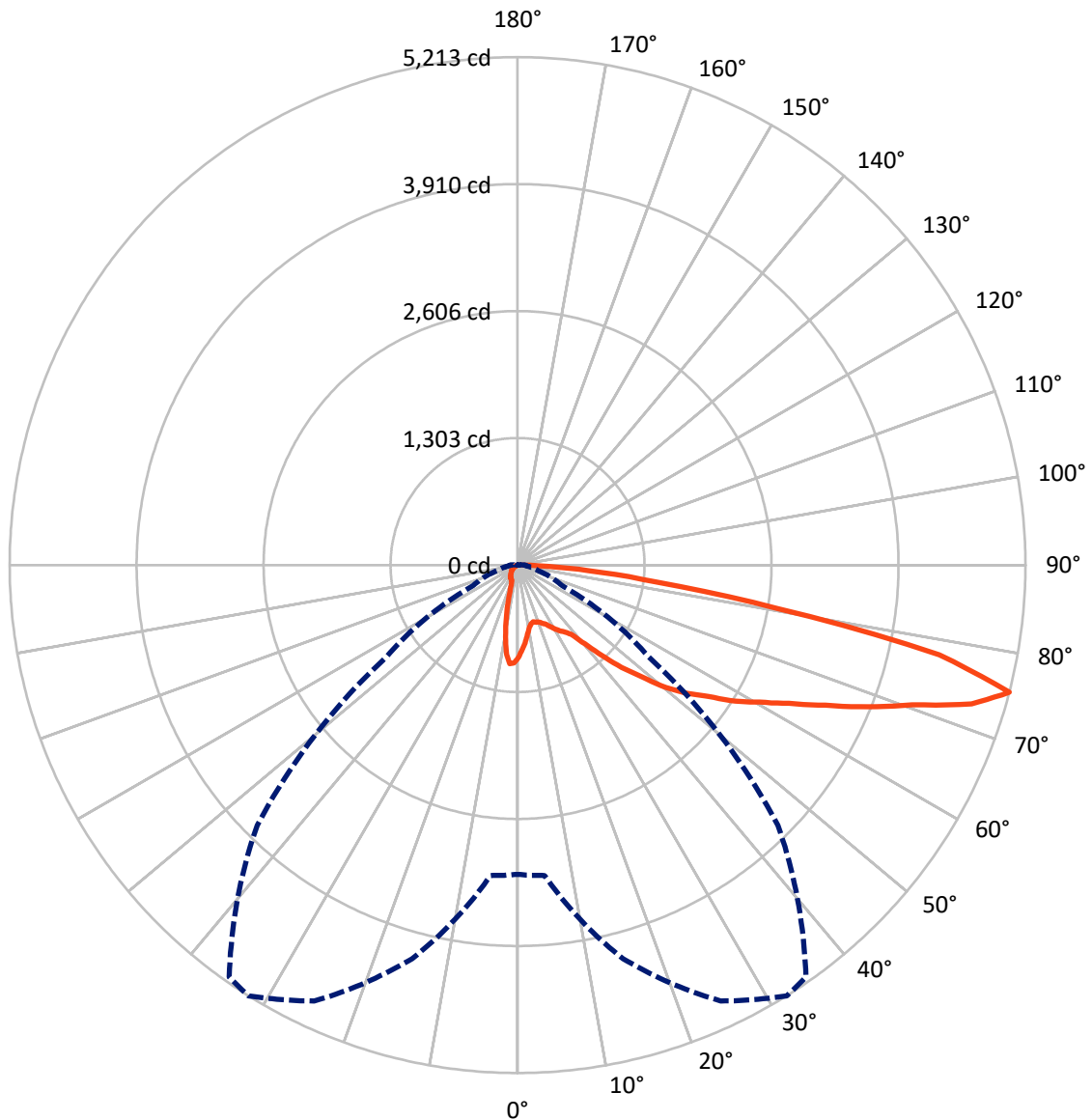
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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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	636.0	0.0	636.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5250.9	0.0	5250.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	5886.8	0.0	5886.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.4
10°-20°	189.6	3.2
20°-30°	283.9	4.8
30°-40°	435.9	7.4
40°-50°	762.2	12.9
50°-60°	1191.5	20.2
60°-70°	1540.4	26.2
70°-80°	1254.6	21.3
80°-90°	145.2	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°	5886.8	100.0
0°-180°	5886.8	100.0



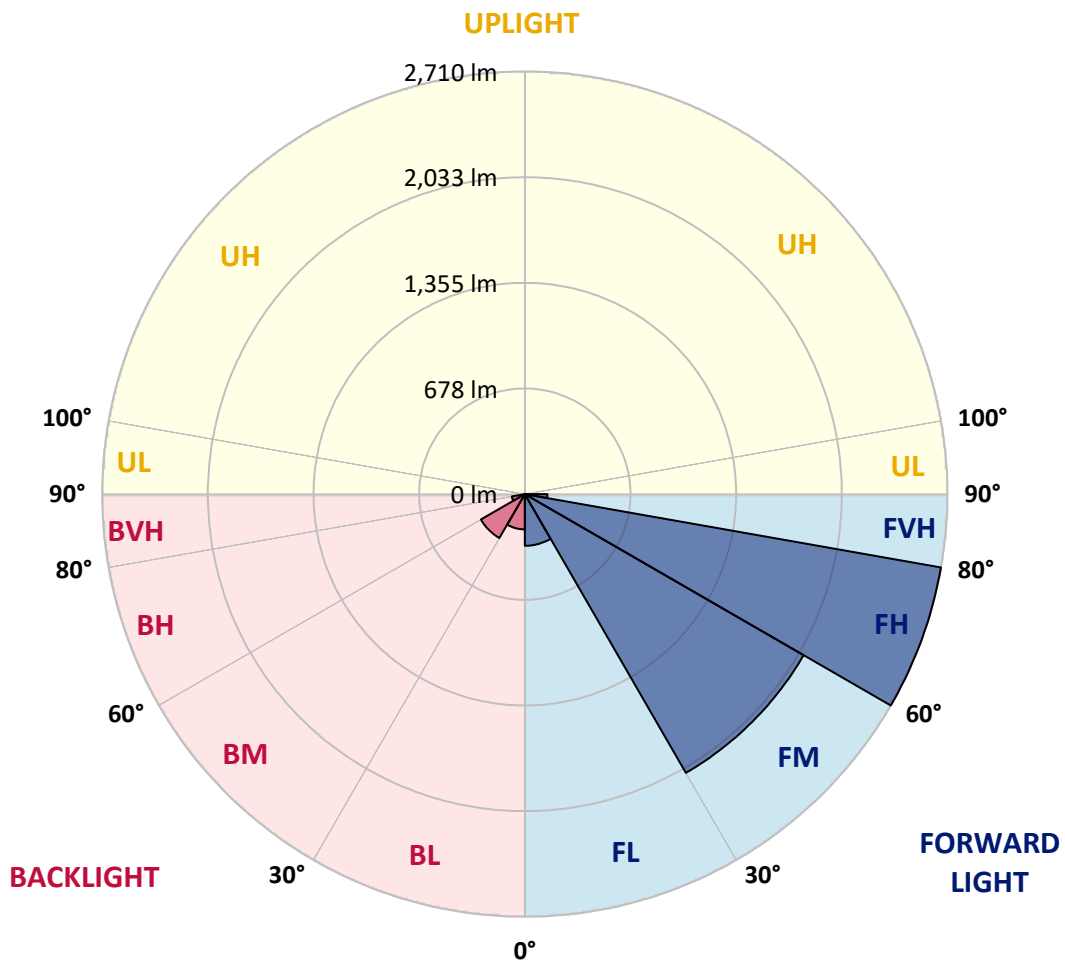
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.2	5.6			
FM (30°-60°)	2064.2	35.1			
FH (60°-80°)	2710.4	46.0			G2/5000
FVH (80°-90°)	145.1	2.5			G2/225
BL (0°-30°)	225.9	3.8	B1/500		
BM (30°-60°)	325.4	5.5	B1/1000		
BH (60°-80°)	84.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	852.5	864.5	863.0	870.6	872.1	876.6	887.2	887.2	917.3	938.5	952.1
5°	775.5	768.0	771.0	780.0	802.7	801.2	826.8	840.4	876.6	906.8	938.5
7.5°	680.5	679.0	685.0	706.1	722.7	736.3	763.5	798.2	846.4	891.7	947.5
10°	620.1	617.1	629.2	635.2	654.8	663.9	706.1	760.4	817.8	882.6	947.5
12.5°	606.5	596.0	602.0	600.5	618.6	623.1	663.9	730.3	799.7	879.6	959.6
15°	614.1	606.5	600.5	600.5	605.0	608.0	651.8	710.6	789.1	884.2	986.8
17.5°	638.2	633.7	615.6	597.5	617.1	617.1	644.3	706.1	790.6	897.7	1019.9
20°	666.9	662.4	630.7	609.6	623.1	638.2	666.9	716.7	795.1	908.3	1071.2
22.5°	698.6	698.6	654.8	630.7	648.8	650.3	701.6	749.9	813.2	935.5	1104.4
25°	737.8	734.8	692.5	665.4	671.4	688.0	734.8	786.1	846.4	973.2	1166.3
27.5°	789.1	784.6	734.8	707.6	715.2	733.3	786.1	837.4	876.6	988.3	1219.1
30°	831.3	826.8	786.1	745.3	761.9	778.5	840.4	885.7	914.3	1016.9	1279.5
32.5°	840.4	832.9	805.7	787.6	805.7	837.4	885.7	932.4	976.2	1089.4	1394.1
35°	944.5	917.3	846.4	817.8	844.9	855.5	935.5	1018.4	1060.7	1146.7	1522.4
37.5°	1143.7	1118.0	1024.5	944.5	906.8	918.9	1023.0	1125.6	1166.3	1253.8	1662.7
40°	1388.1	1345.8	1246.3	1139.1	1062.2	1047.1	1115.0	1265.9	1305.1	1388.1	1846.8
42.5°	1667.2	1626.5	1472.6	1345.8	1267.4	1247.8	1258.3	1428.8	1462.0	1511.8	1967.5
45°	1867.9	1846.8	1673.3	1560.1	1498.2	1477.1	1451.5	1606.9	1649.1	1665.7	2142.5
47.5°	1984.1	1969.0	1872.4	1795.5	1712.5	1689.9	1706.5	1854.3	1825.6	1839.2	2310.0
50°	2139.5	2100.2	1969.0	1993.1	1976.5	1970.5	1999.2	2064.0	2021.8	1982.6	2492.5
52.5°	2264.7	2195.3	2103.3	2162.1	2187.8	2210.4	2311.5	2359.8	2171.2	2110.8	2610.2
55°	2341.7	2275.3	2299.4	2353.7	2380.9	2485.0	2604.2	2568.0	2269.2	2213.4	2767.1
57.5°	2411.1	2415.6	2480.5	2497.1	2635.9	2654.0	2883.3	2765.6	2338.6	2307.0	2829.0
60°	2578.5	2561.9	2614.7	2721.9	2854.6	2955.7	3174.5	2898.4	2373.3	2355.2	2812.4
62.5°	2880.3	2777.7	2795.8	2931.6	3126.2	3236.4	3342.0	2958.8	2364.3	2362.8	2762.6
65°	3263.5	3145.8	3091.5	3218.3	3470.2	3625.6	3530.6	3026.7	2303.9	2346.2	2577.0
67.5°	3581.9	3583.4	3482.3	3553.2	3882.1	3915.3	3708.6	3013.1	2202.8	2214.9	2124.4
70°	3948.5	3998.3	3909.3	4131.1	4295.6	4316.7	3912.3	2901.4	1985.6	1670.2	1220.6
72.5°	4042.1	4067.7	4345.3	4686.3	4871.9	4877.9	4113.0	2528.7	1306.6	737.8	378.7
75°	3174.5	3198.7	4182.4	4936.8	5212.9	5160.1	3778.0	1641.6	508.5	215.8	90.5
77.5°	1771.3	1778.9	2596.6	3990.8	4422.3	4209.5	2646.4	639.7	205.2	123.7	42.2
80°	484.3	568.8	962.6	1967.5	2700.7	2651.0	1259.8	208.2	132.8	96.6	19.6
82.5°	116.2	125.2	309.3	870.6	1427.3	1489.2	375.7	105.6	92.0	80.0	10.6
85°	42.2	46.8	95.1	424.0	733.3	672.9	113.2	52.8	67.9	61.9	4.5
87.5°	15.1	15.1	30.2	138.8	214.2	161.4	37.7	18.1	34.7	37.7	1.5
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°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	953.6	953.6	974.7	992.8	998.8	1006.4	998.8	1015.4	1013.9	1006.4	1009.4
5°	955.1	982.2	1000.3	1012.4	1018.4	1016.9	1019.9	1001.8	991.3	983.7	976.2
7.5°	962.6	988.3	1021.5	1018.4	1001.8	967.1	940.0	891.7	844.9	843.4	835.9
10°	988.3	1010.9	1030.5	1018.4	958.1	852.5	766.5	701.6	642.7	615.6	618.6
12.5°	1006.4	1048.6	1039.6	977.7	852.5	713.7	586.9	491.9	439.1	389.3	389.3
15°	1044.1	1059.2	1056.2	918.9	722.7	556.7	402.8	306.3	250.5	227.8	224.8
17.5°	1080.3	1096.9	1045.6	829.8	594.5	374.2	244.4	190.1	182.6	179.5	181.1
20°	1125.6	1127.1	1036.5	740.8	446.6	236.9	175.0	170.5	172.0	170.5	170.5
22.5°	1173.8	1184.4	1004.9	615.6	297.2	172.0	163.0	164.5	164.5	164.5	169.0
25°	1237.2	1220.6	955.1	496.4	194.6	158.4	158.4	159.9	159.9	159.9	161.4
27.5°	1279.5	1256.8	891.7	357.6	152.4	149.4	152.4	152.4	155.4	155.4	155.4
30°	1367.0	1308.1	811.7	230.8	137.3	141.8	144.8	147.9	149.4	152.4	153.9
32.5°	1434.9	1353.4	712.2	153.9	125.2	128.2	135.8	141.8	147.9	146.4	146.4
35°	1558.6	1427.3	620.1	122.2	114.7	114.7	122.2	132.8	141.8	144.8	144.8
37.5°	1700.4	1487.7	491.9	111.7	105.6	105.6	110.1	122.2	134.3	140.3	137.3
40°	1818.1	1557.1	363.6	104.1	98.1	98.1	101.1	110.1	123.7	134.3	135.8
42.5°	1901.1	1608.4	245.9	96.6	92.0	90.5	95.1	99.6	110.1	125.2	128.2
45°	1976.5	1635.5	152.4	89.0	86.0	86.0	86.0	90.5	98.1	111.7	114.7
47.5°	2110.8	1665.7	110.1	83.0	78.5	80.0	81.5	83.0	89.0	92.0	93.5
50°	2224.0	1688.3	90.5	76.9	73.9	75.4	75.4	75.4	78.5	73.9	73.9
52.5°	2310.0	1665.7	76.9	70.9	67.9	69.4	67.9	67.9	64.9	58.8	58.8
55°	2373.3	1625.0	61.9	64.9	64.9	64.9	61.9	57.3	51.3	46.8	46.8
57.5°	2389.9	1555.6	48.3	54.3	58.8	58.8	52.8	46.8	39.2	34.7	33.2
60°	2364.3	1404.7	36.2	39.2	45.3	46.8	42.2	34.7	27.2	22.6	22.6
62.5°	2272.3	1285.5	28.7	25.6	33.2	34.7	30.2	22.6	15.1	10.6	9.1
65°	2097.2	1101.4	21.1	18.1	22.6	24.1	19.6	10.6	4.5	1.5	0.0
67.5°	1682.3	829.8	13.6	12.1	15.1	15.1	9.1	3.0	0.0	0.0	0.0
70°	930.9	466.2	9.1	6.0	7.5	4.5	1.5	0.0	0.0	0.0	0.0
72.5°	268.6	132.8	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	72.4	31.7	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.7	12.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)