

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: P676748

Luminaire Tested: **CCW-SA-2D-827-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676748  
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-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

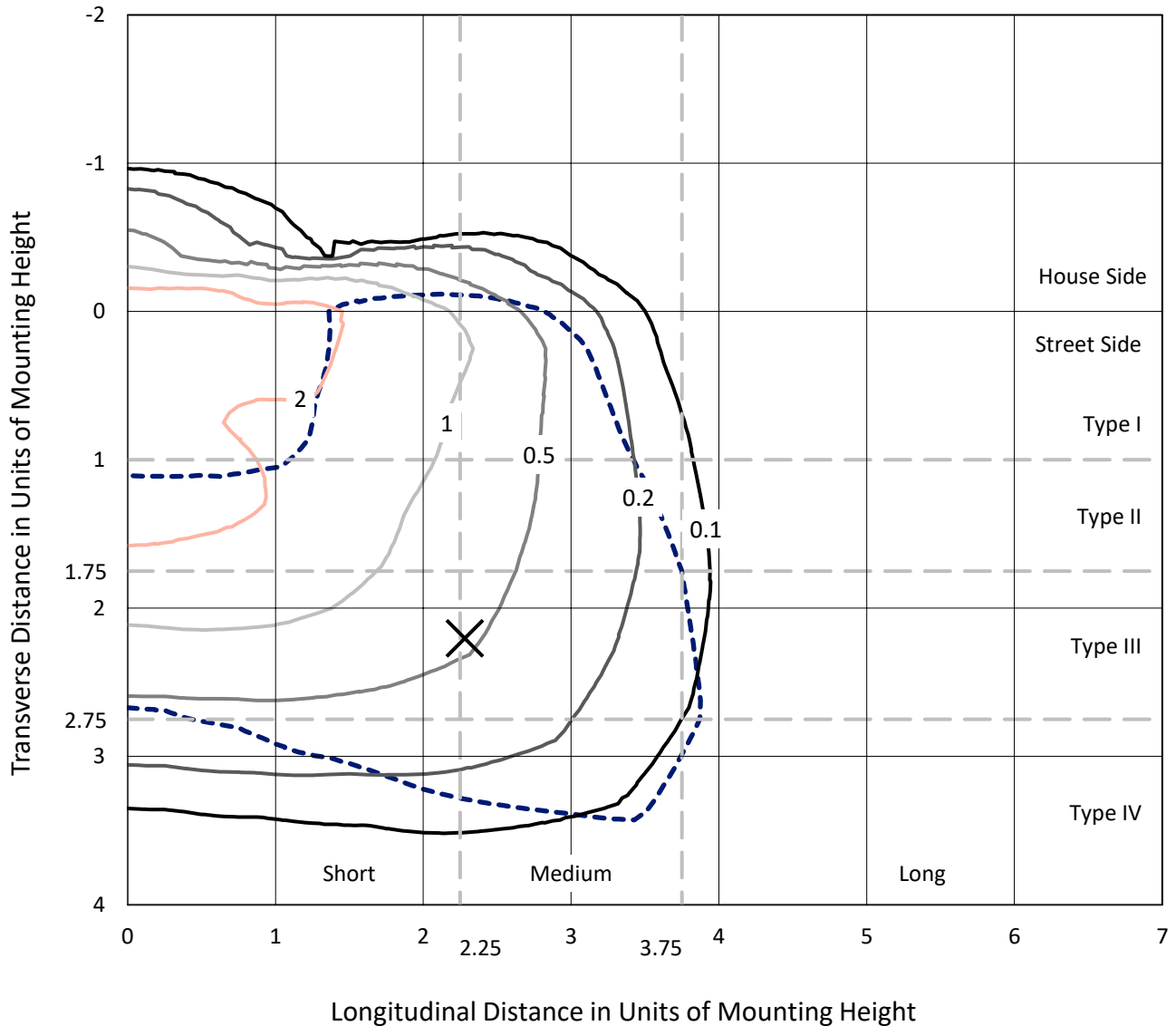
Lumens per Lamp: N/A  
Luminaire Lumens: 5915 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

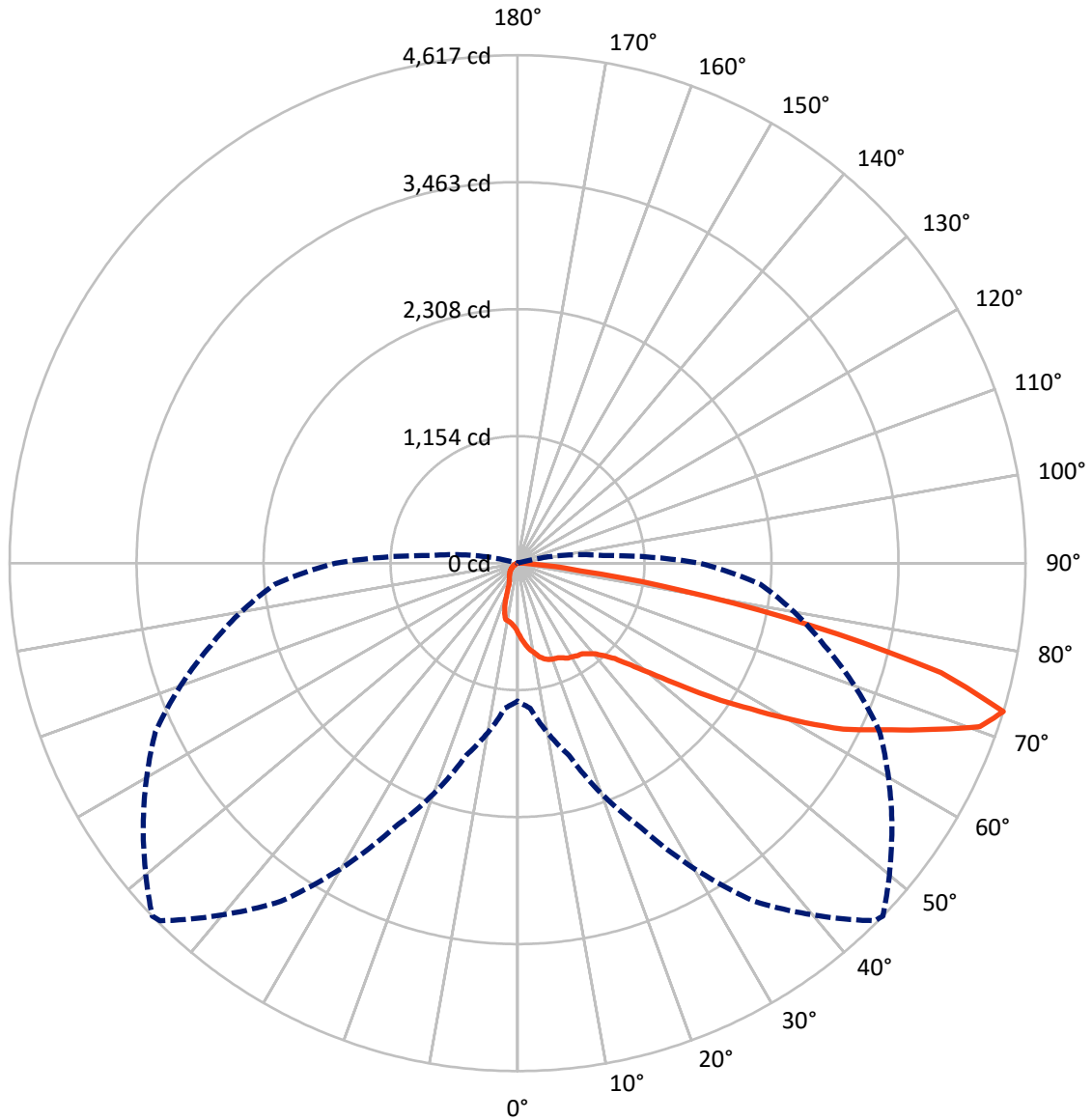
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	636.8	0.0	636.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5278.2	0.0	5278.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5915.0	0.0	5915.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	1.1
10°-20°	191.0	3.2
20°-30°	299.1	5.1
30°-40°	418.8	7.1
40°-50°	690.6	11.7
50°-60°	1241.3	21.0
60°-70°	1799.1	30.4
70°-80°	1122.8	19.0
80°-90°	89.0	1.5
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°	5915.0	100.0
0°-180°	5915.0	100.0



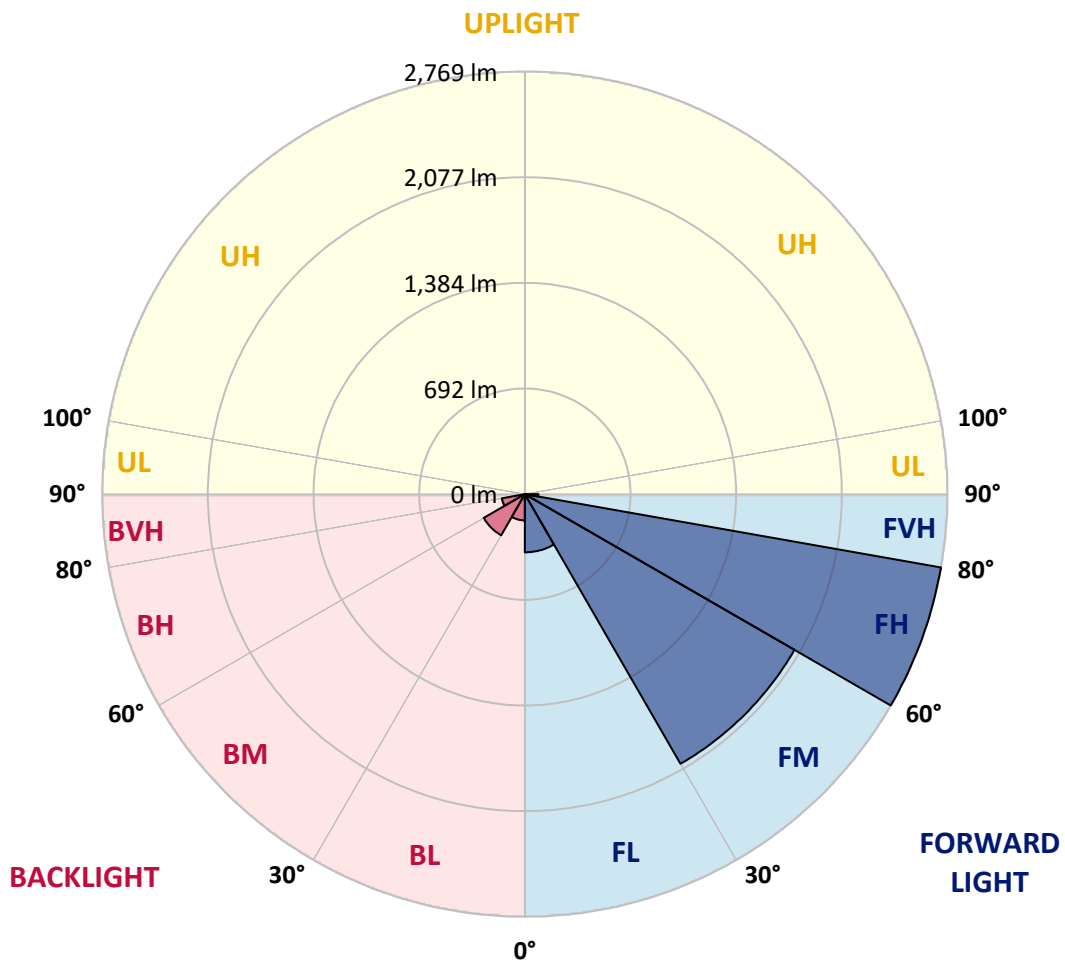
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.3	6.4			
FM (30°-60°)	2039.6	34.5			
FH (60°-80°)	2768.8	46.8			G2/5000
FVH (80°-90°)	88.5	1.5			G1/100
BL (0°-30°)	172.1	2.9	B1/500		
BM (30°-60°)	311.1	5.3	B1/1000		
BH (60°-80°)	153.1	2.6	B1/500		G1/500
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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	707.6	704.6	709.1	707.6	689.5	692.5	691.0	678.9	657.8	645.7	638.2
5°	789.1	796.6	790.6	777.0	766.4	745.3	742.3	722.7	689.5	668.4	645.7
7.5°	873.6	873.6	861.5	840.4	817.7	795.1	792.1	758.9	730.2	694.0	662.3
10°	936.9	929.4	920.3	897.7	872.1	841.9	826.8	802.7	771.0	727.2	686.5
12.5°	992.8	980.7	965.6	932.4	902.2	869.0	872.1	832.8	811.7	772.5	712.1
15°	1024.4	1013.9	1000.3	970.1	923.4	908.3	902.2	878.1	840.4	801.1	743.8
17.5°	1032.0	1024.4	1006.3	967.1	941.5	923.4	921.8	893.2	876.6	843.4	780.0
20°	1016.9	1003.3	989.7	964.1	940.0	933.9	929.4	929.4	908.3	864.5	802.7
22.5°	991.3	976.2	968.6	953.5	933.9	932.4	935.4	932.4	915.8	887.1	826.8
25°	971.6	964.1	952.0	947.5	935.4	958.1	953.5	949.0	944.5	911.3	864.5
27.5°	977.7	976.2	967.1	949.0	940.0	964.1	977.7	979.2	977.7	944.5	899.2
30°	980.7	973.1	964.1	959.6	962.6	986.7	986.7	1019.9	1006.3	973.1	933.9
32.5°	1015.4	1010.9	980.7	970.1	971.6	1000.3	1001.8	1035.0	1030.5	1007.8	964.1
35°	1089.3	1059.1	1015.4	985.2	985.2	1022.9	1010.9	1059.1	1071.2	1035.0	985.2
37.5°	1199.5	1176.8	1098.4	1030.5	1004.8	1032.0	1044.1	1071.2	1107.4	1075.7	1027.5
40°	1418.2	1413.7	1302.1	1155.7	1054.6	1078.8	1083.3	1125.5	1149.7	1105.9	1092.3
42.5°	1738.1	1715.5	1611.4	1380.5	1145.1	1134.6	1151.2	1178.3	1235.7	1199.5	1166.3
45°	2050.4	2039.8	1935.7	1677.7	1309.6	1246.2	1237.2	1285.5	1369.9	1330.7	1305.1
47.5°	2276.7	2255.6	2196.7	1979.5	1551.0	1377.5	1383.5	1431.8	1538.9	1508.8	1516.3
50°	2450.2	2439.7	2377.8	2258.6	1855.8	1584.2	1572.1	1620.4	1765.2	1784.9	1806.0
52.5°	2640.3	2659.9	2577.0	2475.9	2216.4	1861.8	1834.6	1851.2	2038.3	2083.6	2142.4
55°	2822.9	2854.6	2771.6	2758.0	2593.6	2169.6	2165.1	2125.8	2367.2	2373.3	2405.0
57.5°	2942.1	2931.5	2925.5	2999.4	2970.7	2522.6	2500.0	2460.8	2679.5	2640.3	2735.4
60°	2951.1	2981.3	3082.4	3264.9	3316.2	2937.5	2904.4	2797.2	2949.6	2856.1	3037.1
62.5°	3019.0	3043.2	3230.2	3482.2	3548.6	3302.7	3325.3	3053.7	3180.5	3106.5	3372.1
65°	2847.0	2922.5	3298.1	3651.2	3853.4	3672.3	3649.7	3384.1	3417.3	3347.9	3702.5
67.5°	2691.6	2720.3	3112.6	3702.5	4094.8	4043.5	4034.4	3676.8	3661.7	3533.5	3796.0
70°	2187.7	2222.4	2610.1	3440.0	4176.2	4476.5	4455.4	4087.2	3827.7	3432.4	3316.2
72.5°	1253.8	1323.2	1809.0	2649.4	3752.3	4597.2	4616.8	4153.6	3631.6	2886.2	2214.9
75°	410.4	430.0	751.4	1501.2	2806.3	4010.3	3975.6	3569.7	2930.0	1905.6	1000.3
77.5°	138.8	141.8	221.8	543.2	1555.5	2709.7	2729.3	2551.3	1799.9	792.1	276.1
80°	70.9	75.4	108.6	203.7	639.7	1475.6	1507.2	1454.4	754.4	233.9	66.4
82.5°	33.2	34.7	63.4	113.2	292.7	579.4	579.4	636.7	267.0	131.3	27.2
85°	12.1	12.1	33.2	64.9	123.7	193.1	194.6	196.1	140.3	98.1	12.1
87.5°	4.5	4.5	16.6	27.2	45.3	58.8	58.8	46.8	70.9	64.9	4.5
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°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	635.2	626.1	618.6	608.0	594.4	586.9	588.4	579.4	579.4	574.8	573.3
5°	635.2	626.1	606.5	588.4	576.3	561.3	553.7	547.7	547.7	544.7	546.2
7.5°	639.7	626.1	599.0	574.8	555.2	540.1	528.1	526.6	523.5	516.0	522.0
10°	666.9	647.3	602.0	568.8	546.2	529.6	508.5	502.4	493.4	479.8	481.3
12.5°	689.5	663.9	623.1	577.9	549.2	522.0	473.7	420.9	398.3	374.2	375.7
15°	722.7	686.5	630.7	589.9	549.2	461.7	374.2	306.3	270.1	252.0	252.0
17.5°	740.8	710.6	651.8	597.5	505.4	375.7	265.5	206.7	200.7	203.7	203.7
20°	778.5	737.8	675.9	603.5	433.0	267.0	194.6	188.6	191.6	197.6	196.1
22.5°	802.7	761.9	694.0	576.3	334.9	191.6	182.6	179.5	182.6	190.1	190.1
25°	822.3	796.6	722.7	510.0	236.9	173.5	170.5	173.5	176.5	179.5	184.1
27.5°	870.6	826.8	742.3	424.0	170.5	161.4	164.5	166.0	166.0	170.5	172.0
30°	902.2	867.5	757.4	327.4	150.9	149.4	152.4	153.9	155.4	159.9	161.4
32.5°	932.4	920.3	737.8	221.8	141.8	138.8	137.3	138.8	144.8	149.4	147.9
35°	976.2	968.6	709.1	153.9	132.8	126.7	123.7	125.2	129.8	134.3	132.8
37.5°	1029.0	1036.5	639.7	134.3	123.7	116.2	110.1	110.1	111.6	116.2	117.7
40°	1090.8	1110.4	558.2	125.2	117.7	108.6	102.6	95.1	93.5	92.0	93.5
42.5°	1204.0	1226.6	466.2	119.2	108.6	98.1	89.0	80.0	72.4	67.9	67.9
45°	1362.4	1344.3	345.5	113.2	104.1	89.0	75.4	64.9	54.3	49.8	49.8
47.5°	1581.2	1519.3	236.9	107.1	96.6	78.5	63.4	49.8	40.7	36.2	36.2
50°	1884.4	1680.8	153.9	101.1	92.0	67.9	51.3	36.2	30.2	28.7	30.2
52.5°	2171.1	1845.2	122.2	93.5	83.0	58.8	39.2	30.2	27.2	25.6	25.6
55°	2435.1	1928.2	108.6	86.0	75.4	48.3	33.2	25.6	24.1	22.6	22.6
57.5°	2658.4	1956.9	93.5	75.4	60.4	37.7	27.2	22.6	19.6	18.1	18.1
60°	2851.5	1964.4	72.4	60.4	43.8	28.7	22.6	19.6	16.6	13.6	13.6
62.5°	3005.4	1911.6	51.3	42.2	30.2	22.6	19.6	13.6	9.1	6.0	4.5
65°	3127.6	1806.0	34.7	28.7	19.6	16.6	12.1	6.0	1.5	0.0	0.0
67.5°	2984.3	1566.1	27.2	21.1	13.6	10.6	6.0	1.5	0.0	0.0	0.0
70°	2433.6	1214.5	19.6	13.6	9.1	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	1656.6	783.0	15.1	9.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	743.8	280.6	10.6	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	181.1	66.4	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.3	16.6	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	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)