

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: P673524

Luminaire Tested: **CCP-SA-2B-727-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673524  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-727-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4W distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

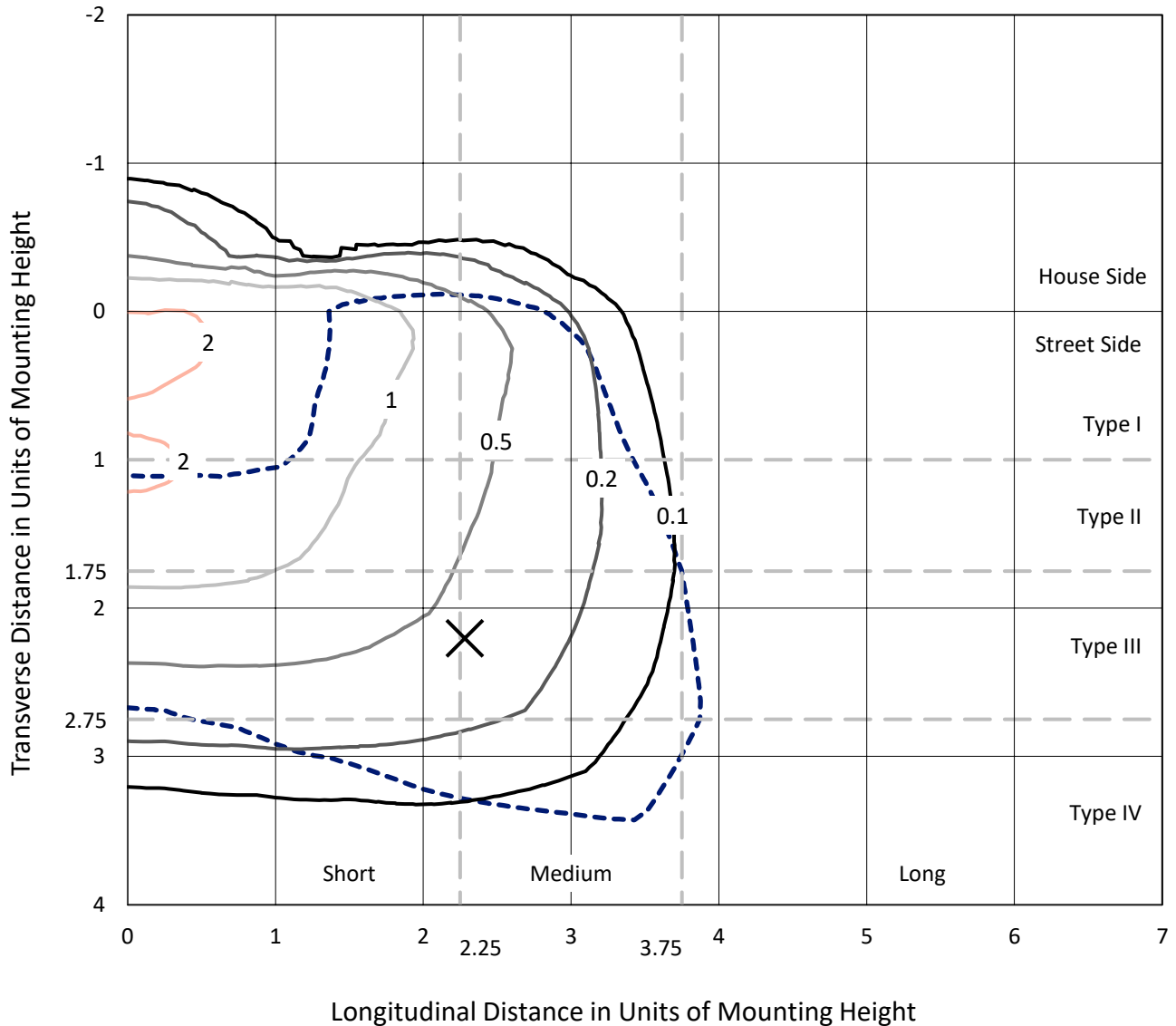
Lumens per Lamp: N/A  
Luminaire Lumens: 4167 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

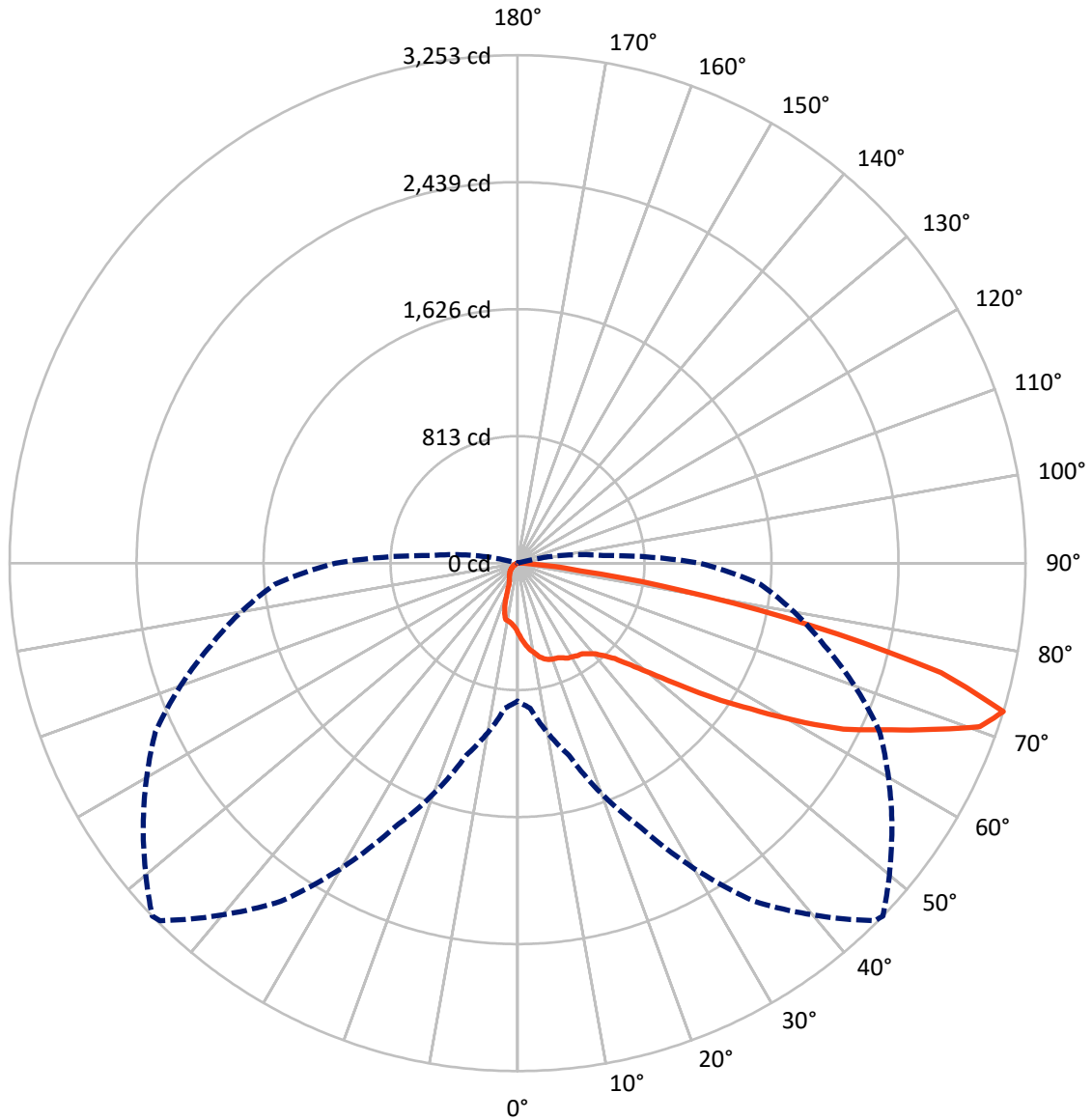
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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	448.6	0.0	448.6
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3718.4	0.0	3718.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4167.0	0.0	4167.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.1
10°-20°	134.6	3.2
20°-30°	210.7	5.1
30°-40°	295.0	7.1
40°-50°	486.5	11.7
50°-60°	874.5	21.0
60°-70°	1267.4	30.4
70°-80°	791.0	19.0
80°-90°	62.7	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°	4167.0	100.0
0°-180°	4167.0	100.0



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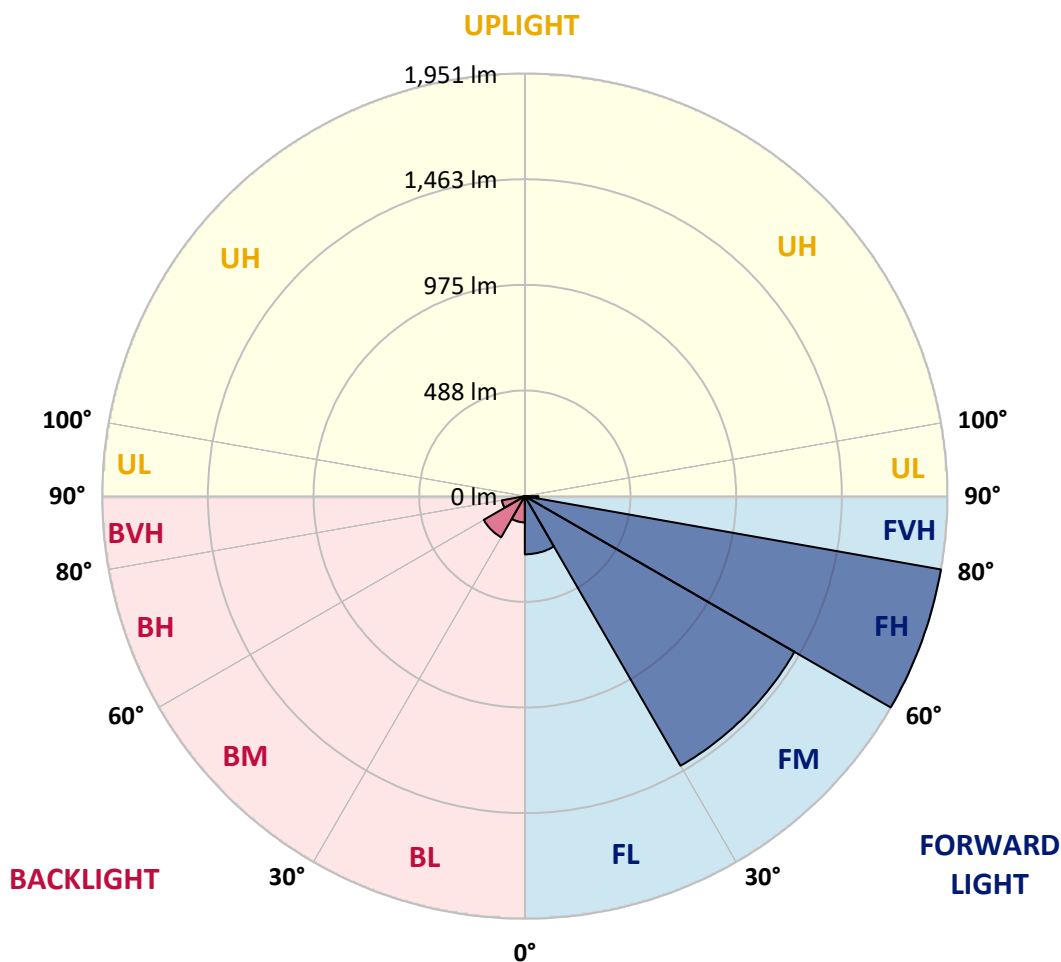
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.6	6.4			
FM (30°-60°)	1436.9	34.5			
FH (60°-80°)	1950.6	46.8			G2/5000
FVH (80°-90°)	62.4	1.5			G1/100
BL (0°-30°)	121.2	2.9	B1/500		
BM (30°-60°)	219.2	5.3	B0/220		
BH (60°-80°)	107.9	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4
2.5°	498.5	496.4	499.6	498.5	485.7	487.9	486.8	478.3	463.4	454.9	449.6
5°	555.9	561.2	557.0	547.4	540.0	525.1	522.9	509.1	485.7	470.9	454.9
7.5°	615.4	615.4	606.9	592.0	576.1	560.1	558.0	534.6	514.4	488.9	466.6
10°	660.1	654.7	648.4	632.4	614.4	593.1	582.5	565.5	543.1	512.3	483.6
12.5°	699.4	690.9	680.3	656.9	635.6	612.2	614.4	586.7	571.8	544.2	501.7
15°	721.7	714.3	704.7	683.4	650.5	639.9	635.6	618.6	592.0	564.4	524.0
17.5°	727.0	721.7	709.0	681.3	663.2	650.5	649.4	629.2	617.5	594.2	549.5
20°	716.4	706.8	697.3	679.2	662.2	657.9	654.7	654.7	639.9	609.0	565.5
22.5°	698.3	687.7	682.4	671.8	657.9	656.9	659.0	656.9	645.2	625.0	582.5
25°	684.5	679.2	670.7	667.5	659.0	674.9	671.8	668.6	665.4	642.0	609.0
27.5°	688.8	687.7	681.3	668.6	662.2	679.2	688.8	689.8	688.8	665.4	633.5
30°	690.9	685.6	679.2	676.0	678.1	695.1	695.1	718.5	709.0	685.6	657.9
32.5°	715.3	712.1	690.9	683.4	684.5	704.7	705.8	729.1	726.0	710.0	679.2
35°	767.4	746.2	715.3	694.1	694.1	720.6	712.1	746.2	754.7	729.1	694.1
37.5°	845.0	829.1	773.8	726.0	707.9	727.0	735.5	754.7	780.2	757.8	723.8
40°	999.1	995.9	917.3	814.2	743.0	760.0	763.2	792.9	809.9	779.1	769.5
42.5°	1224.5	1208.5	1135.2	972.5	806.7	799.3	811.0	830.1	870.5	845.0	821.6
45°	1444.5	1437.0	1363.7	1181.9	922.6	878.0	871.6	905.6	965.1	937.5	919.4
47.5°	1603.9	1589.0	1547.6	1394.5	1092.7	970.4	974.7	1008.7	1084.2	1062.9	1068.2
50°	1726.1	1718.7	1675.1	1591.2	1307.4	1116.0	1107.5	1141.5	1243.6	1257.4	1272.3
52.5°	1860.1	1873.9	1815.4	1744.2	1561.4	1311.6	1292.5	1304.2	1436.0	1467.9	1509.3
55°	1988.7	2011.0	1952.5	1943.0	1827.1	1528.4	1525.3	1497.6	1667.7	1671.9	1694.3
57.5°	2072.6	2065.2	2061.0	2113.0	2092.8	1777.2	1761.2	1733.6	1887.7	1860.1	1927.0
60°	2079.0	2100.3	2171.5	2300.1	2336.2	2069.5	2046.1	1970.6	2078.0	2012.1	2139.6
62.5°	2126.9	2143.9	2275.7	2453.2	2499.9	2326.7	2342.6	2151.3	2240.6	2188.5	2375.6
65°	2005.7	2058.8	2323.5	2572.2	2714.6	2587.1	2571.1	2384.1	2407.5	2358.6	2608.3
67.5°	1896.2	1916.4	2192.8	2608.3	2884.7	2848.6	2842.2	2590.3	2579.6	2489.3	2674.2
70°	1541.2	1565.6	1838.8	2423.4	2942.1	3153.6	3138.7	2879.4	2696.6	2418.1	2336.2
72.5°	883.3	932.2	1274.4	1866.4	2643.4	3238.6	3252.5	2926.2	2558.4	2033.3	1560.3
75°	289.1	302.9	529.3	1057.6	1977.0	2825.2	2800.7	2514.8	2064.1	1342.4	704.7
77.5°	97.8	99.9	156.2	382.6	1095.8	1909.0	1922.8	1797.4	1268.0	558.0	194.5
80°	50.0	53.1	76.5	143.5	450.7	1039.5	1061.8	1024.6	531.4	164.7	46.8
82.5°	23.4	24.4	44.6	79.7	206.2	408.2	408.2	448.5	188.1	92.5	19.1
85°	8.5	8.5	23.4	45.7	87.2	136.1	137.1	138.2	98.8	69.1	8.5
87.5°	3.2	3.2	11.7	19.1	31.9	41.5	41.5	32.9	50.0	45.7	3.2
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°	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4
2.5°	447.5	441.1	435.8	428.3	418.8	413.5	414.5	408.2	408.2	405.0	403.9
5°	447.5	441.1	427.3	414.5	406.0	395.4	390.1	385.8	385.8	383.7	384.8
7.5°	450.7	441.1	422.0	405.0	391.1	380.5	372.0	371.0	368.8	363.5	367.8
10°	469.8	456.0	424.1	400.7	384.8	373.1	358.2	353.9	347.6	338.0	339.1
12.5°	485.7	467.7	439.0	407.1	386.9	367.8	333.7	296.5	280.6	263.6	264.7
15°	509.1	483.6	444.3	415.6	386.9	325.2	263.6	215.8	190.3	177.5	177.5
17.5°	521.9	500.6	459.2	420.9	356.1	264.7	187.1	145.6	141.4	143.5	143.5
20°	548.5	519.8	476.2	425.2	305.1	188.1	137.1	132.9	135.0	139.2	138.2
22.5°	565.5	536.8	488.9	406.0	236.0	135.0	128.6	126.5	128.6	133.9	133.9
25°	579.3	561.2	509.1	359.3	166.9	122.2	120.1	122.2	124.4	126.5	129.7
27.5°	613.3	582.5	522.9	298.7	120.1	113.7	115.9	116.9	116.9	120.1	121.2
30°	635.6	611.2	533.6	230.6	106.3	105.2	107.4	108.4	109.5	112.7	113.7
32.5°	656.9	648.4	519.8	156.2	99.9	97.8	96.7	97.8	102.0	105.2	104.2
35°	687.7	682.4	499.6	108.4	93.5	89.3	87.2	88.2	91.4	94.6	93.5
37.5°	724.9	730.2	450.7	94.6	87.2	81.8	77.6	77.6	78.7	81.8	82.9
40°	768.5	782.3	393.3	88.2	82.9	76.5	72.3	67.0	65.9	64.8	65.9
42.5°	848.2	864.1	328.4	84.0	76.5	69.1	62.7	56.3	51.0	47.8	47.8
45°	959.8	947.0	243.4	79.7	73.3	62.7	53.1	45.7	38.3	35.1	35.1
47.5°	1113.9	1070.3	166.9	75.5	68.0	55.3	44.6	35.1	28.7	25.5	25.5
50°	1327.6	1184.1	108.4	71.2	64.8	47.8	36.1	25.5	21.3	20.2	21.3
52.5°	1529.5	1299.9	86.1	65.9	58.5	41.5	27.6	21.3	19.1	18.1	18.1
55°	1715.5	1358.4	76.5	60.6	53.1	34.0	23.4	18.1	17.0	15.9	15.9
57.5°	1872.8	1378.6	65.9	53.1	42.5	26.6	19.1	15.9	13.8	12.8	12.8
60°	2008.9	1383.9	51.0	42.5	30.8	20.2	15.9	13.8	11.7	9.6	9.6
62.5°	2117.3	1346.7	36.1	29.8	21.3	15.9	13.8	9.6	6.4	4.3	3.2
65°	2203.4	1272.3	24.4	20.2	13.8	11.7	8.5	4.3	1.1	0.0	0.0
67.5°	2102.4	1103.3	19.1	14.9	9.6	7.4	4.3	1.1	0.0	0.0	0.0
70°	1714.5	855.6	13.8	9.6	6.4	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1167.1	551.6	10.6	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	524.0	197.7	7.4	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	127.5	46.8	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.0	11.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	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)