

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: P674772

Luminaire Tested: **CCP-SA-1E-840-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674772  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-840-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

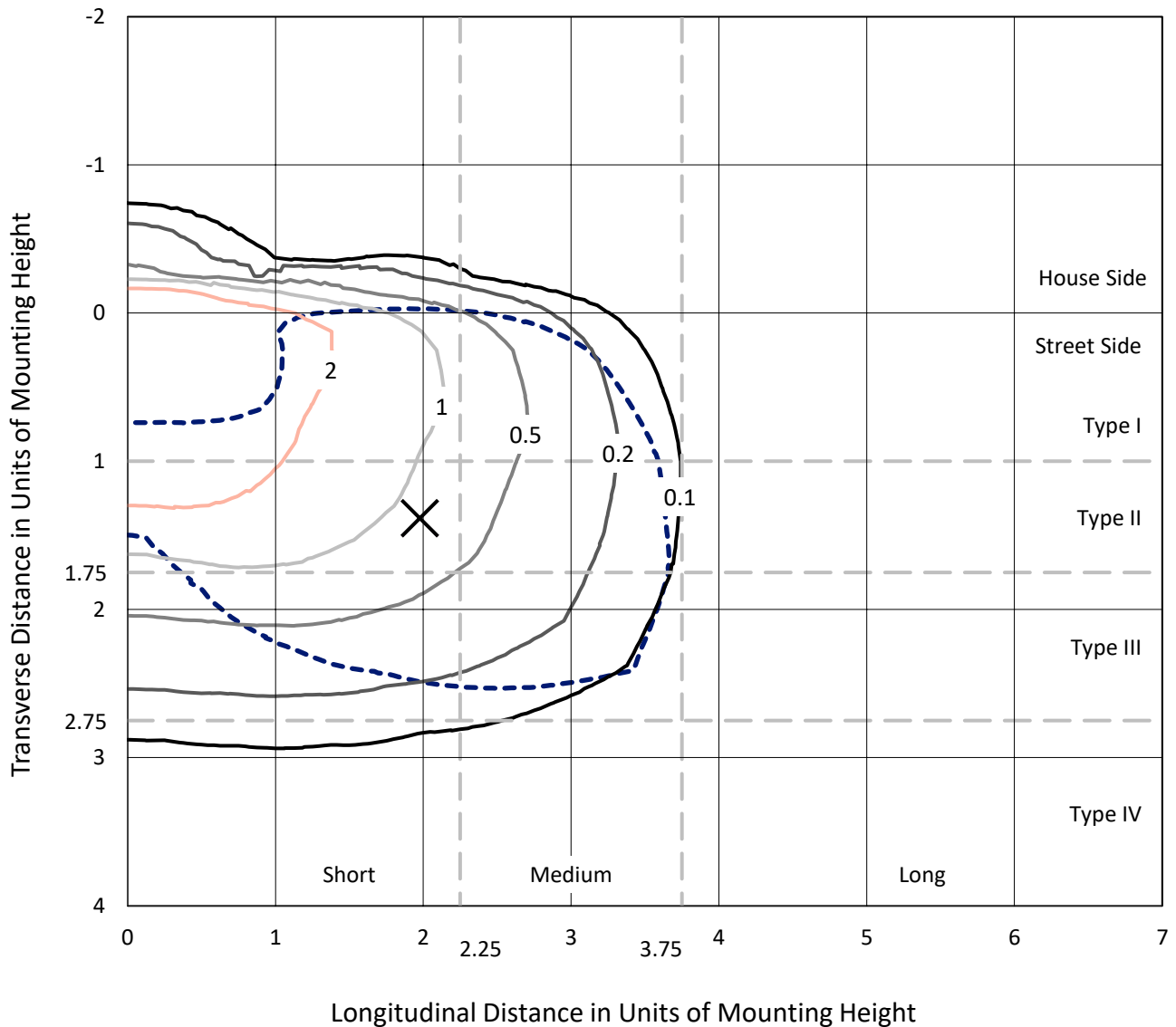
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4623.1 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 56.1  
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

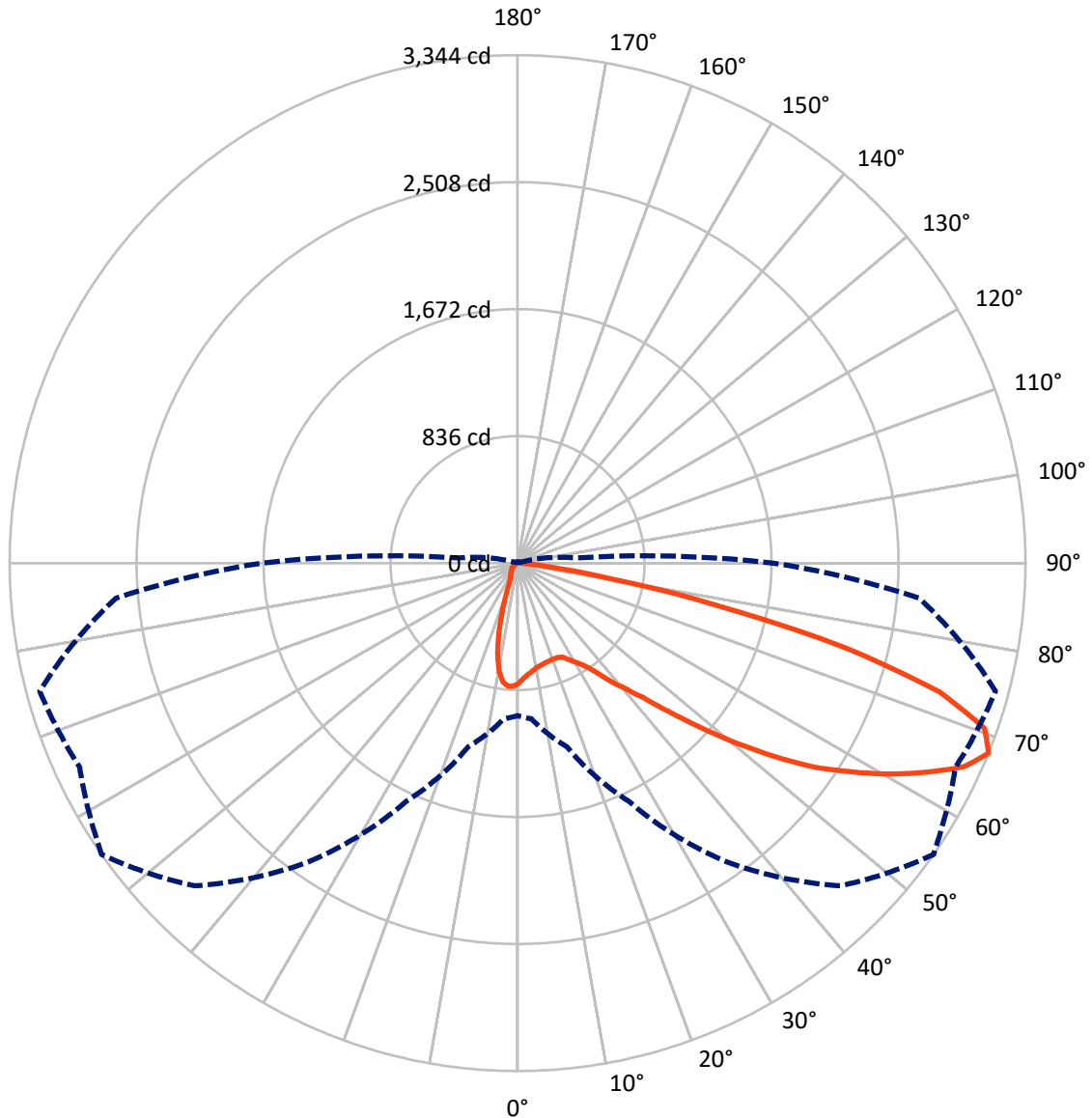
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	415.3	0.0	415.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	4207.8	0.0	4207.8
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	4623.1	0.0	4623.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	1.5
10°-20°	158.3	3.4
20°-30°	254.0	5.5
30°-40°	440.5	9.5
40°-50°	734.6	15.9
50°-60°	1074.1	23.2
60°-70°	1252.5	27.1
70°-80°	607.8	13.1
80°-90°	31.8	0.7
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°	4623.1	100.0
0°-180°	4623.1	100.0



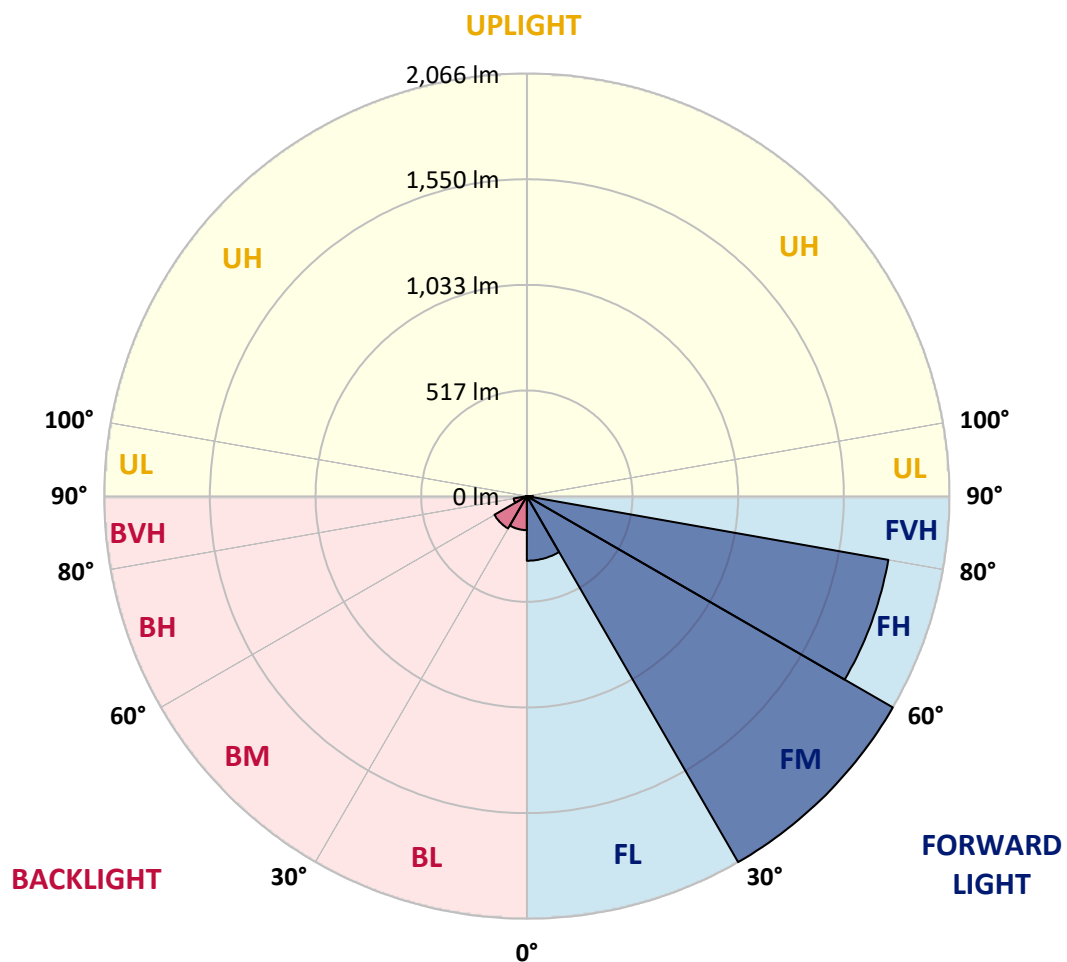
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.8	6.8			
FM (30°-60°)	2066.4	44.7			
FH (60°-80°)	1794.8	38.8			G1/1800
FVH (80°-90°)	30.9	0.7			G1/100
BL (0°-30°)	166.0	3.6	B1/500		
BM (30°-60°)	182.8	4.0	B0/220		
BH (60°-80°)	65.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3
2.5°	731.4	736.0	742.0	744.1	751.4	761.6	758.6	756.5	768.0	783.8	788.9
5°	685.8	686.2	695.6	702.4	714.7	724.5	735.2	734.3	755.2	782.0	799.1
7.5°	641.1	641.9	651.7	662.4	680.2	699.4	715.6	714.7	748.4	784.2	816.6
10°	582.3	586.5	598.5	617.2	645.3	675.6	698.1	700.3	740.7	792.3	840.4
12.5°	535.0	537.1	550.3	574.6	607.8	647.4	689.6	688.3	742.4	807.2	871.5
15°	515.0	513.7	521.8	539.7	577.6	627.4	681.1	684.1	748.4	824.2	903.9
17.5°	519.7	518.4	522.6	529.0	555.9	610.8	676.4	681.5	757.8	842.1	934.1
20°	571.6	562.7	555.0	548.2	552.0	597.2	673.4	679.0	763.3	855.7	966.1
22.5°	671.7	660.7	640.2	602.3	577.2	598.0	674.3	681.5	775.7	877.9	1004.8
25°	834.9	824.2	780.3	702.8	636.4	628.7	685.8	693.5	804.2	911.5	1046.1
27.5°	1050.8	1027.0	973.7	862.6	734.3	677.7	720.3	728.8	844.7	937.5	1074.3
30°	1230.2	1224.6	1173.5	1037.2	869.4	749.7	759.0	763.7	863.0	953.3	1102.4
32.5°	1416.3	1404.8	1357.9	1225.5	1026.1	852.3	802.5	804.6	886.8	976.7	1143.3
35°	1578.2	1567.5	1528.3	1399.7	1209.3	990.3	874.5	869.8	936.2	1028.3	1198.6
37.5°	1728.1	1726.8	1692.3	1561.1	1373.7	1133.5	980.5	976.7	1013.3	1084.9	1273.6
40°	1874.6	1871.2	1841.8	1722.1	1535.6	1276.2	1081.5	1071.7	1078.9	1164.1	1372.4
42.5°	1964.5	1971.7	1982.0	1906.1	1727.7	1443.6	1209.3	1203.3	1202.0	1288.1	1502.3
45°	2013.1	2025.8	2085.9	2079.1	1931.3	1651.8	1391.2	1375.8	1370.7	1458.5	1651.0
47.5°	2060.3	2065.9	2164.3	2205.6	2126.4	1869.1	1611.0	1589.7	1568.8	1666.3	1828.6
50°	2063.3	2072.3	2194.1	2294.6	2289.9	2082.9	1857.6	1838.8	1815.0	1919.3	2002.0
52.5°	2021.6	2039.5	2190.3	2350.8	2391.3	2271.6	2113.6	2098.2	2078.7	2156.6	2148.1
55°	1733.2	1763.4	2115.3	2355.9	2462.4	2433.5	2370.9	2349.6	2330.4	2385.8	2291.2
57.5°	1596.0	1613.1	1887.8	2352.1	2553.2	2583.4	2594.1	2584.3	2557.4	2626.4	2440.7
60°	1513.8	1538.5	1779.2	2309.5	2651.1	2752.9	2819.8	2800.2	2767.4	2862.4	2600.9
62.5°	1415.4	1433.3	1671.0	2186.8	2709.5	2925.4	3031.5	3013.6	2945.9	3080.1	2730.4
65°	1234.0	1260.8	1498.9	1993.9	2631.1	3052.0	3230.9	3224.9	3107.3	3244.5	2765.7
67.5°	1004.4	1028.7	1250.6	1729.4	2401.9	3004.7	3343.7	3325.0	3180.6	3256.8	2653.7
70°	753.9	767.1	934.5	1321.3	1967.9	2752.1	3261.9	3258.1	3069.4	3073.7	2309.9
72.5°	404.7	441.3	621.5	884.3	1383.9	2229.0	2907.1	2891.8	2738.5	2517.4	1661.2
75°	141.4	152.1	331.0	496.7	751.8	1484.9	2235.4	2199.6	2048.0	1637.4	905.2
77.5°	86.9	95.4	147.0	253.9	292.6	644.5	1343.0	1296.6	1198.6	707.9	309.2
80°	60.1	67.7	98.4	132.9	99.7	208.7	618.1	600.6	462.2	168.7	71.1
82.5°	33.7	40.5	74.5	65.2	40.0	54.1	214.3	198.5	123.1	45.6	23.9
85°	19.6	23.4	52.4	46.0	20.4	19.2	55.8	49.8	31.9	17.0	11.5
87.5°	10.2	13.2	38.3	30.7	12.4	6.8	12.8	12.4	8.1	6.0	7.7
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°	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3	792.3
2.5°	798.2	796.1	807.2	811.0	810.2	808.5	812.7	807.2	806.8	805.5	804.2
5°	812.7	816.1	825.1	825.1	813.1	793.6	781.6	765.4	751.8	743.7	742.4
7.5°	834.4	841.3	847.2	828.9	788.0	739.5	687.9	647.4	612.1	593.8	592.1
10°	865.1	871.5	866.8	814.4	726.7	626.2	542.2	457.9	415.7	392.7	392.7
12.5°	901.7	906.9	878.3	778.2	625.7	480.0	368.0	279.4	237.3	210.0	208.3
15°	941.4	942.6	876.6	715.2	500.9	322.4	211.3	155.0	137.2	133.3	132.5
17.5°	975.9	970.7	858.7	621.9	360.8	192.1	134.2	121.4	118.0	118.0	118.0
20°	1008.2	991.2	822.9	513.3	231.3	130.8	115.4	112.0	112.0	112.5	112.5
22.5°	1044.0	1010.4	771.8	392.7	148.7	112.0	108.2	106.5	106.1	107.3	106.9
25°	1086.2	1029.1	698.6	271.3	115.0	104.4	102.7	101.0	101.0	101.0	101.0
27.5°	1109.6	1026.5	615.1	171.2	100.5	96.7	95.0	93.3	92.0	91.6	92.0
30°	1130.1	1011.6	506.0	119.7	90.7	86.5	85.2	83.1	80.5	79.7	79.7
32.5°	1156.9	999.3	391.9	96.3	82.2	77.5	73.7	70.3	66.0	64.3	63.9
35°	1186.7	976.7	287.1	84.8	74.5	68.6	62.6	57.1	51.5	49.8	49.4
37.5°	1223.8	956.3	194.7	78.4	68.2	60.9	52.8	45.2	40.0	39.2	39.2
40°	1274.0	939.2	134.6	72.8	62.2	53.7	43.9	35.8	32.4	31.5	31.5
42.5°	1342.6	925.2	101.8	68.2	57.1	46.4	35.4	29.4	26.8	26.0	26.0
45°	1423.5	903.4	86.0	63.9	52.0	39.2	29.4	24.7	23.4	23.4	23.4
47.5°	1516.4	876.2	78.4	59.6	46.4	31.9	24.7	22.6	22.1	22.1	22.6
50°	1610.1	843.8	72.8	54.5	40.0	27.3	22.6	21.3	21.3	21.7	21.7
52.5°	1673.6	793.1	67.3	49.0	33.7	23.9	21.3	20.9	20.4	20.4	20.4
55°	1735.3	748.8	59.6	43.0	28.1	22.1	20.4	20.0	20.0	19.6	19.6
57.5°	1799.7	713.9	49.8	35.8	23.9	20.9	19.6	19.6	18.7	18.3	18.3
60°	1874.2	683.2	38.3	28.1	20.9	19.6	18.3	17.9	17.0	16.2	16.2
62.5°	1895.9	618.5	29.0	22.6	17.9	17.0	16.6	15.8	13.6	11.9	12.4
65°	1839.3	516.7	23.0	17.9	14.5	14.5	13.2	11.1	8.9	7.7	7.7
67.5°	1682.9	385.9	18.7	14.1	11.5	11.1	9.4	8.1	5.5	4.7	4.7
70°	1386.9	255.1	15.3	11.1	9.4	7.7	6.4	6.0	4.3	3.4	3.4
72.5°	972.0	138.4	12.8	8.9	6.8	5.1	4.3	3.8	3.0	2.6	2.1
75°	513.3	53.2	10.2	6.8	4.3	3.4	2.6	2.6	2.1	1.7	1.7
77.5°	175.9	22.6	7.2	3.8	3.0	2.1	1.7	1.3	1.7	1.3	1.3
80°	41.7	13.2	4.7	2.6	1.7	1.3	1.3	0.9	0.9	0.9	0.9
82.5°	18.3	7.7	3.0	1.7	1.7	1.3	0.9	0.4	0.4	0.4	0.4
85°	12.4	4.7	2.1	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0
87.5°	9.8	3.0	1.7	1.7	1.3	0.9	0.4	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)