

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: P673964

Luminaire Tested: **CCP-SA-1E-730-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673964  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-730-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SL4 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

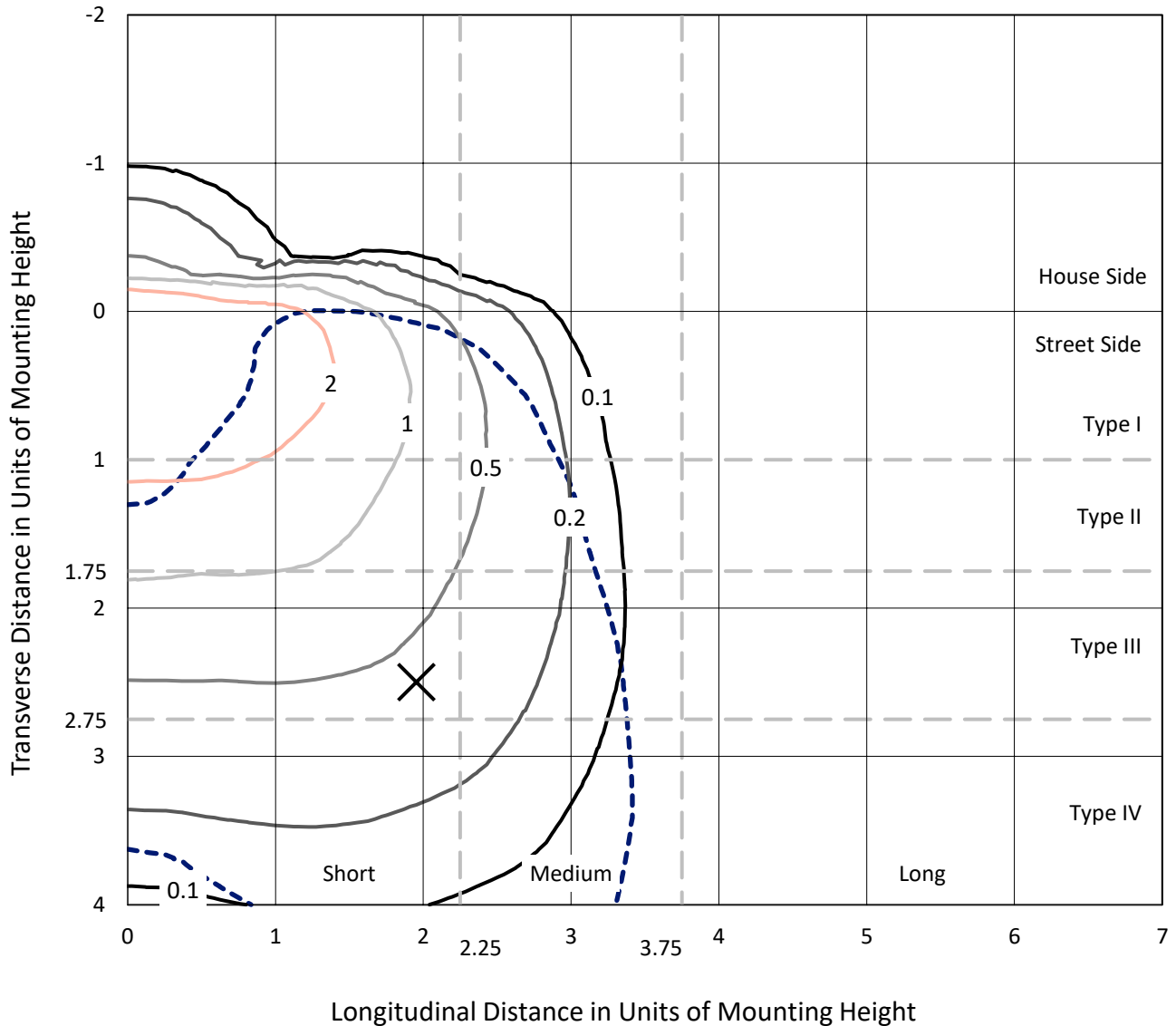
Lumens per Lamp: N/A  
Luminaire Lumens: 5142.7 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

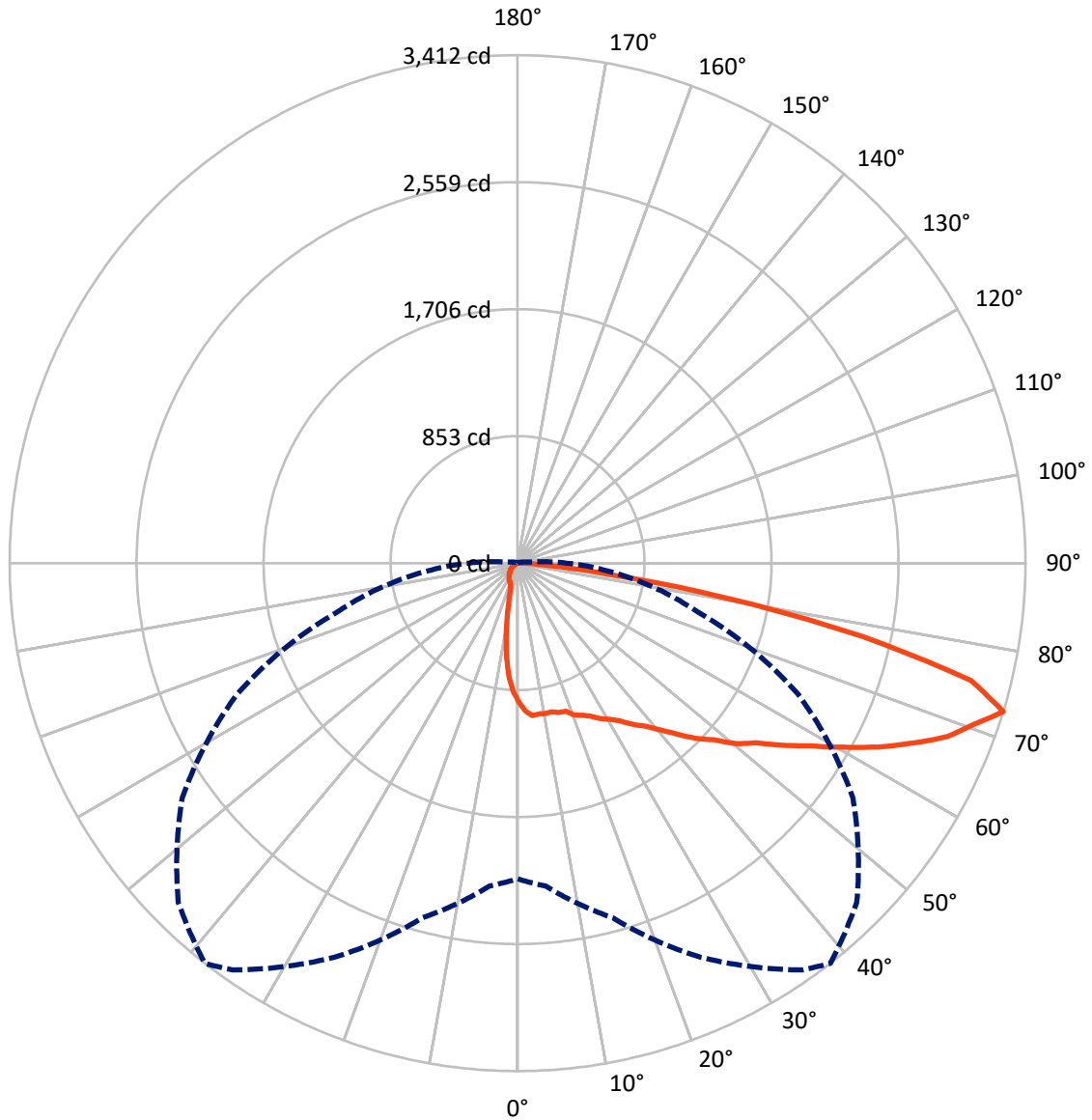
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	430.7	0.0	430.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4712.0	0.0	4712.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5142.7	0.0	5142.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	1.6
10°-20°	199.3	3.9
20°-30°	319.5	6.2
30°-40°	482.4	9.4
40°-50°	734.2	14.3
50°-60°	1033.6	20.1
60°-70°	1262.6	24.6
70°-80°	916.8	17.8
80°-90°	112.9	2.2
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°	5142.7	100.0
0°-180°	5142.7	100.0



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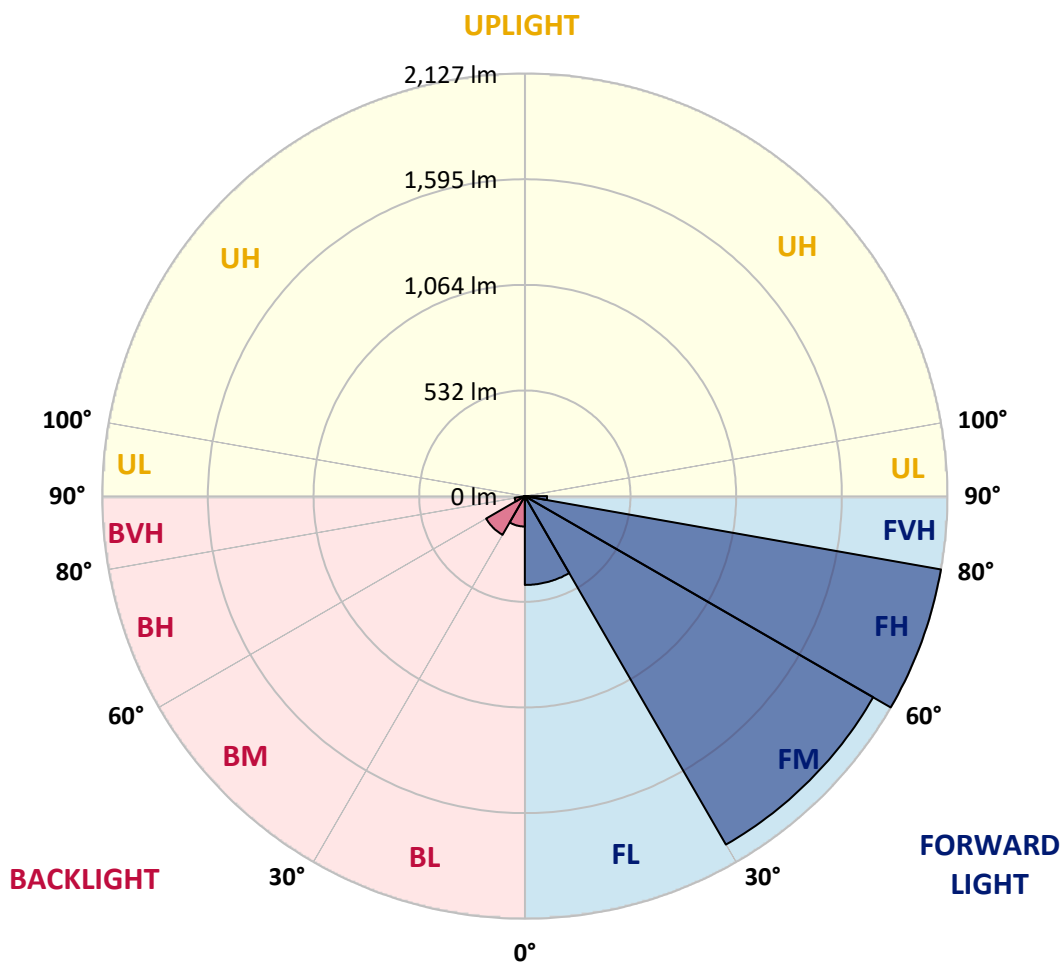
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.3	8.7			
FM (30°-60°)	2025.2	39.4			
FH (60°-80°)	2127.2	41.4			G2/5000
FVH (80°-90°)	112.3	2.2			G2/225
BL (0°-30°)	152.9	3.0	B1/500		
BM (30°-60°)	225.0	4.4	B1/1000		
BH (60°-80°)	52.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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°	35°	38°	45°	55°	65°	75°	85°
0°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
2.5°	1021.7	1021.7	1031.3	1021.7	1018.1	995.1	996.3	984.3	972.2	955.3	939.6
5°	1033.7	1042.2	1048.2	1039.8	1026.5	1028.9	1037.4	1014.4	981.9	961.4	926.4
7.5°	1028.9	1047.0	1042.2	1037.4	1028.9	1022.9	1010.8	1001.2	985.5	966.2	925.2
10°	1025.3	1031.3	1032.5	1028.9	1010.8	1027.7	1014.4	998.8	979.5	956.5	905.9
12.5°	1012.0	1012.0	1022.9	1014.4	1016.8	1025.3	1019.3	1015.6	995.1	975.8	931.2
15°	997.5	1002.4	1019.3	1032.5	1044.6	1041.0	1037.4	1026.5	1008.4	986.7	939.6
17.5°	1001.2	1003.6	1030.1	1054.2	1048.2	1045.8	1065.1	1042.2	1024.1	1000.0	946.9
20°	1014.4	1021.7	1051.8	1083.2	1089.2	1089.2	1082.0	1068.7	1043.4	1010.8	960.2
22.5°	1027.7	1030.1	1079.6	1119.4	1125.4	1109.7	1115.8	1077.2	1053.0	1034.9	973.4
25°	1078.4	1073.5	1126.6	1158.0	1154.4	1138.7	1132.6	1098.9	1089.2	1056.6	1002.4
27.5°	1147.1	1126.6	1178.5	1197.8	1178.5	1183.3	1166.4	1130.2	1109.7	1090.4	1015.6
30°	1189.3	1201.4	1229.1	1248.4	1215.9	1217.1	1208.6	1168.8	1137.5	1142.3	1060.3
32.5°	1254.5	1262.9	1283.4	1291.9	1266.5	1264.1	1255.7	1224.3	1201.4	1196.6	1120.6
35°	1324.4	1340.1	1341.3	1343.7	1320.8	1330.5	1318.4	1273.8	1285.8	1294.3	1193.0
37.5°	1393.2	1378.7	1402.8	1413.7	1388.4	1388.4	1392.0	1361.8	1383.5	1408.9	1295.5
40°	1419.7	1425.8	1468.0	1459.5	1489.7	1471.6	1484.9	1477.6	1495.7	1553.6	1440.2
42.5°	1447.5	1454.7	1511.4	1527.1	1563.3	1569.3	1588.6	1589.8	1642.9	1738.2	1578.9
45°	1500.5	1488.5	1565.7	1604.3	1663.4	1680.3	1703.2	1722.5	1805.7	1917.9	1737.0
47.5°	1548.8	1531.9	1620.0	1697.2	1769.5	1773.1	1835.9	1856.4	1955.3	2083.1	1893.8
50°	1616.3	1622.4	1659.8	1792.4	1866.0	1908.2	1951.7	2019.2	2129.0	2265.3	2007.2
52.5°	1686.3	1680.3	1743.0	1873.3	1989.1	2004.7	2102.4	2178.4	2297.9	2400.4	2057.8
55°	1771.9	1779.2	1803.3	1974.6	2121.7	2159.1	2268.9	2348.5	2478.8	2458.3	2074.7
57.5°	1857.6	1850.3	1904.6	2088.0	2288.2	2315.9	2461.9	2508.9	2597.0	2496.9	2032.5
60°	1942.0	1955.3	1978.2	2215.8	2470.3	2511.4	2627.2	2651.3	2670.6	2515.0	1999.9
62.5°	2038.5	2007.2	2078.3	2350.9	2634.4	2720.0	2811.7	2716.4	2699.5	2482.4	1925.1
65°	2086.8	2096.4	2189.3	2505.3	2852.7	2915.4	2927.5	2804.5	2717.6	2410.0	1855.2
67.5°	2161.5	2174.8	2293.0	2663.3	3077.1	3112.1	3068.6	2884.1	2701.9	2315.9	1603.1
70°	2171.2	2203.8	2431.7	2828.6	3218.2	3248.4	3214.6	2937.1	2575.3	1945.6	1186.9
72.5°	2120.5	2178.4	2465.5	2922.7	3336.4	3412.4	3223.0	2750.2	2075.9	1241.2	607.9
75°	1601.9	1650.1	2256.8	2782.8	3126.5	3144.6	2829.8	2098.8	1182.1	423.4	155.6
77.5°	829.9	913.1	1506.6	2126.6	2382.3	2363.0	1969.8	1236.4	406.5	111.0	62.7
80°	476.5	497.0	658.6	1194.2	1498.1	1424.5	1089.2	533.1	178.5	55.5	41.0
82.5°	235.2	264.2	354.6	534.4	749.1	616.4	408.9	319.6	100.1	30.2	36.2
85°	50.7	53.1	180.9	255.7	304.0	200.2	139.9	269.0	36.2	18.1	35.0
87.5°	36.2	35.0	50.7	114.6	84.4	51.9	83.2	141.1	8.4	8.4	7.2
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°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
2.5°	930.0	919.1	907.1	884.2	878.1	874.5	854.0	852.8	849.2	840.7	837.1
5°	904.7	886.6	863.7	839.5	820.2	785.3	743.0	721.3	694.8	696.0	687.5
7.5°	901.0	867.3	834.7	784.0	722.5	657.4	592.3	550.0	519.9	501.8	505.4
10°	884.2	858.8	805.8	711.7	612.8	513.9	430.6	367.9	331.7	304.0	312.4
12.5°	891.4	841.9	767.2	641.7	500.6	378.8	275.0	214.7	188.2	178.5	180.9
15°	886.6	841.9	744.2	565.7	393.2	256.9	178.5	159.2	154.4	154.4	152.0
17.5°	901.0	851.6	705.6	490.9	282.3	171.3	153.2	149.6	146.0	146.0	146.0
20°	921.6	856.4	679.1	407.7	199.0	150.8	143.5	141.1	139.9	139.9	138.7
22.5°	922.8	851.6	629.6	316.0	153.2	142.3	136.3	135.1	135.1	132.7	132.7
25°	930.0	856.4	576.6	237.6	142.3	133.9	129.1	127.9	129.1	127.9	126.7
27.5°	948.1	864.9	523.5	173.7	133.9	126.7	123.0	121.8	121.8	121.8	119.4
30°	971.0	864.9	464.4	143.5	126.7	119.4	115.8	114.6	113.4	113.4	113.4
32.5°	1019.3	892.6	392.0	127.9	117.0	111.0	107.4	107.4	106.1	106.1	104.9
35°	1079.6	911.9	318.4	118.2	108.6	102.5	98.9	98.9	97.7	97.7	96.5
37.5°	1154.4	960.2	243.7	111.0	100.1	94.1	90.5	90.5	90.5	89.3	89.3
40°	1260.5	1009.6	180.9	101.3	91.7	85.6	83.2	82.0	80.8	80.8	78.4
42.5°	1373.9	1085.6	135.1	94.1	84.4	79.6	76.0	72.4	72.4	68.8	68.8
45°	1496.9	1151.9	109.8	85.6	77.2	71.2	67.5	65.1	61.5	59.1	59.1
47.5°	1617.5	1193.0	96.5	76.0	70.0	65.1	61.5	56.7	51.9	50.7	49.5
50°	1715.2	1205.0	85.6	68.8	63.9	59.1	54.3	48.2	43.4	41.0	39.8
52.5°	1715.2	1138.7	77.2	61.5	57.9	53.1	47.0	39.8	33.8	31.4	30.2
55°	1715.2	1033.7	68.8	56.7	51.9	48.2	39.8	32.6	26.5	22.9	21.7
57.5°	1689.9	907.1	61.5	50.7	45.8	41.0	33.8	25.3	19.3	15.7	15.7
60°	1620.0	774.4	53.1	44.6	39.8	33.8	26.5	18.1	12.1	8.4	8.4
62.5°	1530.7	616.4	45.8	37.4	32.6	27.7	20.5	12.1	4.8	2.4	2.4
65°	1375.1	454.7	39.8	31.4	25.3	20.5	13.3	4.8	0.0	0.0	0.0
67.5°	1135.1	304.0	31.4	25.3	21.7	14.5	8.4	1.2	0.0	0.0	0.0
70°	798.5	172.5	24.1	18.1	15.7	9.6	2.4	0.0	0.0	0.0	0.0
72.5°	328.1	76.0	16.9	13.3	10.9	4.8	0.0	0.0	0.0	0.0	0.0
75°	89.3	33.8	10.9	7.2	6.0	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	51.9	22.9	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.0	10.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.0	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	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)