

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: P672091

Luminaire Tested: **CCP-SA-1D-730-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672091  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-730-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

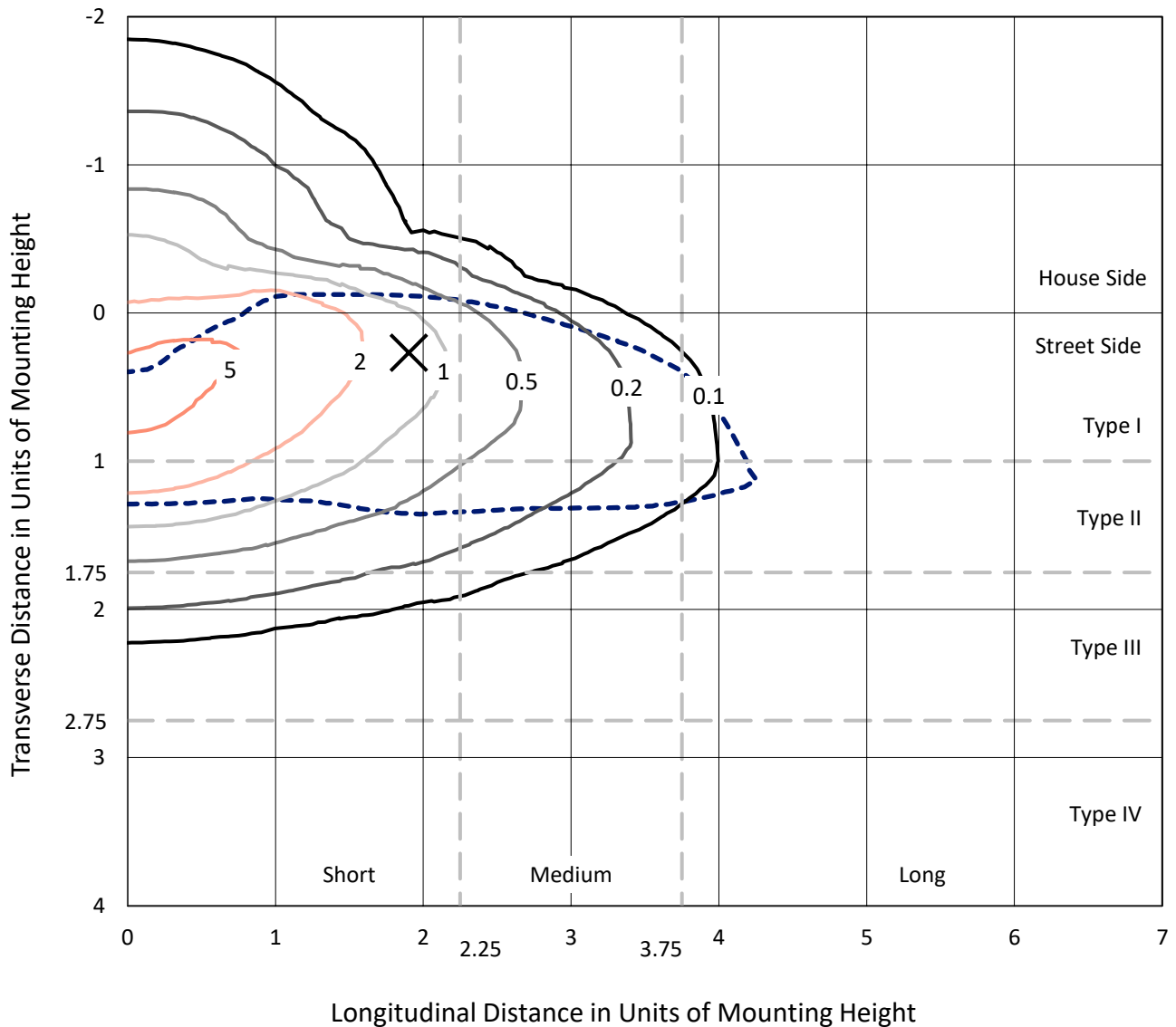
Lumens per Lamp: N/A  
Luminaire Lumens: 5158.4 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

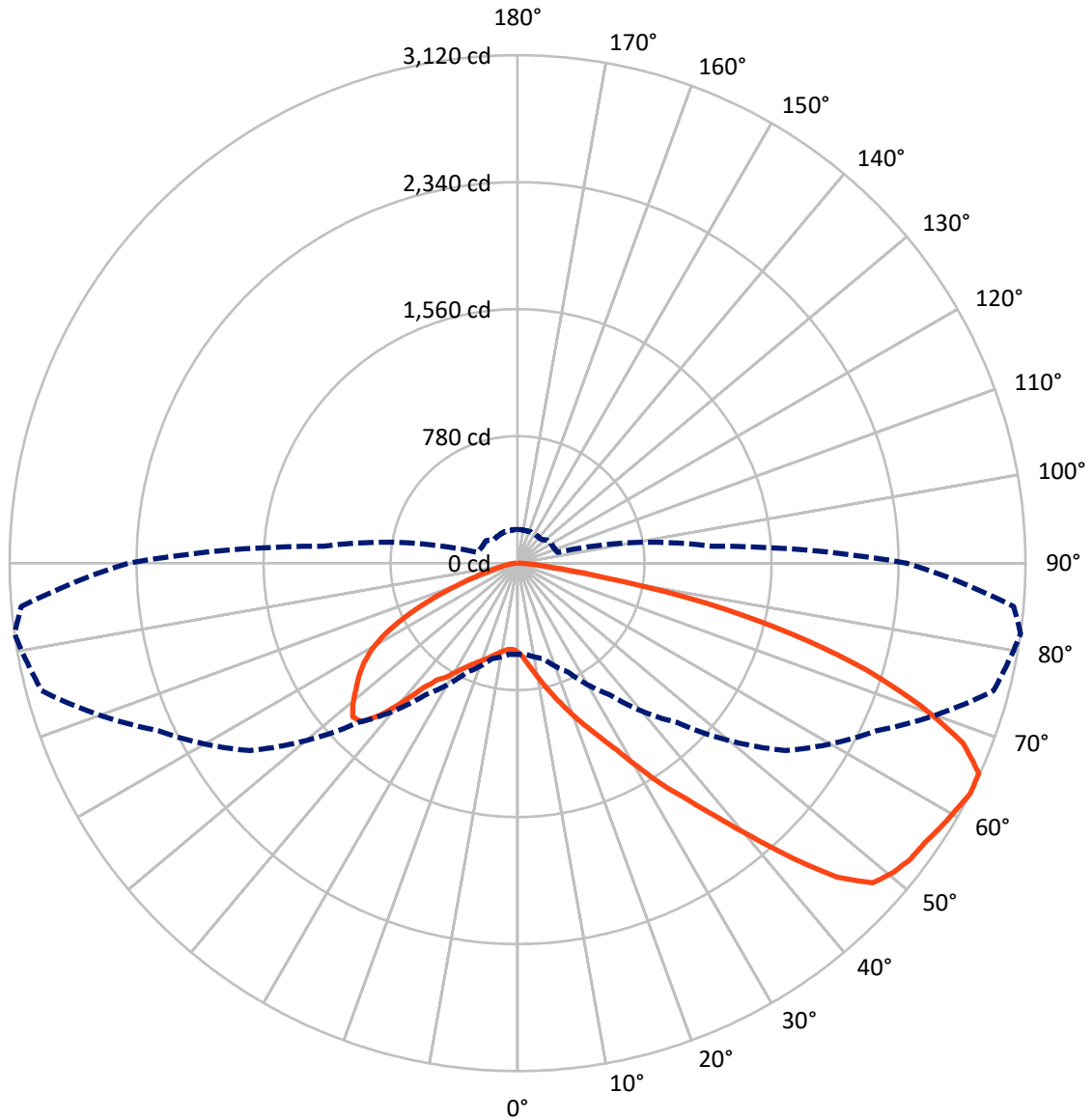
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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CATALOG NUMBER: CCP-SA-1D-730-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	971.8	0.0	971.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4186.5	0.0	4186.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5158.4	0.0	5158.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	1.2
10°-20°	229.0	4.4
20°-30°	474.1	9.2
30°-40°	804.8	15.6
40°-50°	1095.9	21.2
50°-60°	1109.3	21.5
60°-70°	874.3	16.9
70°-80°	430.7	8.3
80°-90°	79.7	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°	5158.4	100.0
0°-180°	5158.4	100.0



REPORT NUMBER: P672091

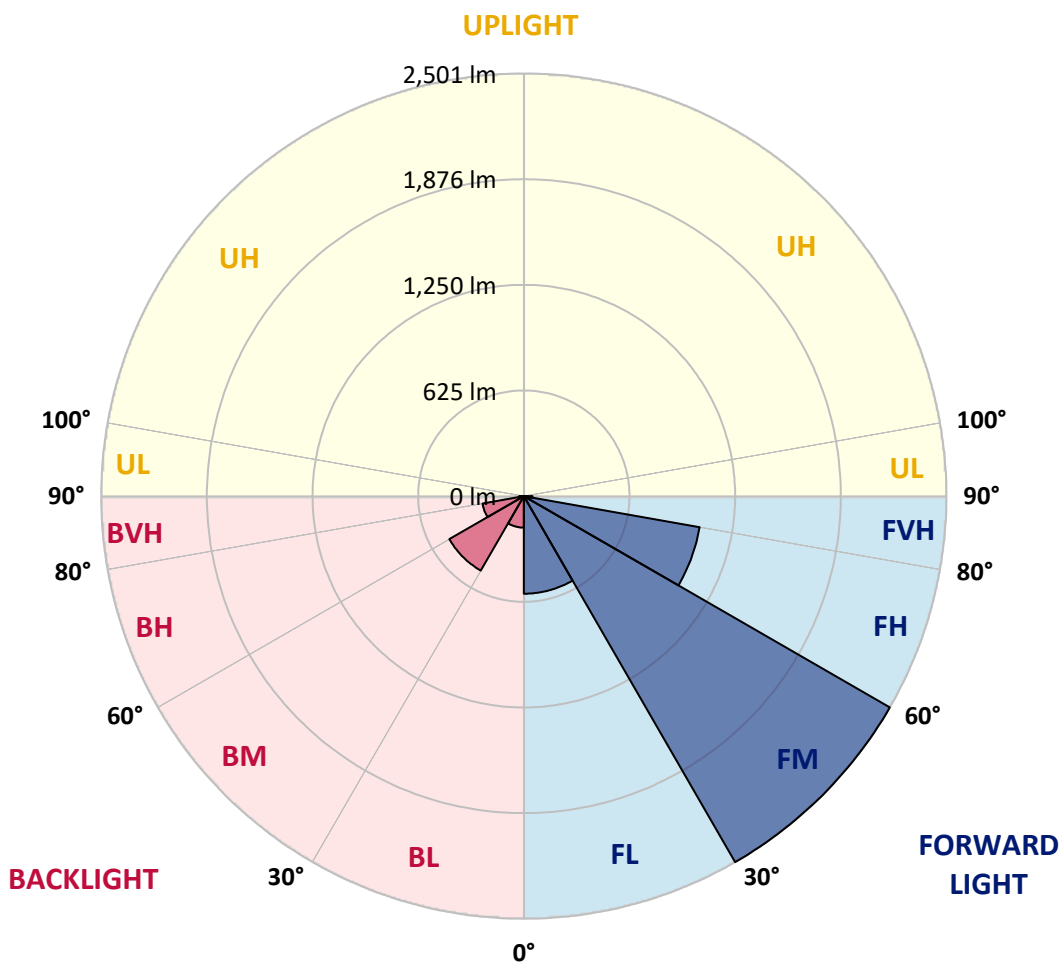
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.3	11.2			
FM (30°-60°)	2500.9	48.5			
FH (60°-80°)	1056.5	20.5			G1/1800
FVH (80°-90°)	51.8	1.0			G1/100
BL (0°-30°)	186.5	3.6	B1/500		
BM (30°-60°)	509.0	9.9	B1/1000		
BH (60°-80°)	248.4	4.8	B1/500		G1/500
BVH (80°-90°)	27.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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CATALOG NUMBER: CCP-SA-1D-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	730.5	719.4	713.5	706.8	688.2	676.3	654.0	628.0	598.0	572.3	567.5
5°	884.7	873.5	875.0	858.7	831.6	806.3	764.7	715.7	658.5	614.7	599.4
7.5°	993.5	981.2	984.2	977.5	955.6	927.8	875.0	811.9	728.3	663.3	638.8
10°	1066.3	1067.8	1070.0	1067.4	1053.3	1033.6	981.2	911.4	807.4	720.9	687.5
12.5°	1148.7	1152.8	1152.1	1153.2	1145.8	1130.2	1078.9	1013.2	891.7	782.9	739.5
15°	1253.8	1249.8	1253.1	1257.9	1249.8	1232.7	1187.4	1109.4	980.1	852.0	798.1
17.5°	1369.0	1360.4	1369.4	1364.5	1358.6	1347.4	1297.7	1214.5	1071.5	926.6	863.5
20°	1468.5	1462.9	1467.8	1468.5	1469.6	1467.4	1416.1	1327.8	1167.3	1008.0	934.1
22.5°	1580.3	1577.7	1577.0	1577.3	1578.4	1581.0	1546.1	1451.8	1273.5	1093.4	1010.2
25°	1736.7	1734.1	1717.0	1698.0	1686.9	1695.1	1676.9	1592.6	1390.9	1189.2	1093.8
27.5°	1912.0	1907.9	1885.2	1837.3	1801.7	1807.6	1805.7	1747.8	1526.1	1299.2	1194.0
30°	2094.0	2083.9	2052.7	1985.5	1929.4	1919.0	1924.2	1904.9	1696.2	1445.1	1333.7
32.5°	2256.3	2237.7	2196.5	2128.5	2061.6	2031.6	2032.3	2040.8	1881.1	1615.2	1480.0
35°	2355.4	2343.2	2312.3	2243.6	2169.0	2148.9	2143.3	2186.1	2050.9	1772.7	1611.1
37.5°	2408.9	2397.0	2364.0	2308.6	2252.2	2244.0	2254.4	2320.5	2243.6	1969.2	1789.4
40°	2399.2	2386.6	2365.1	2326.4	2289.3	2295.6	2341.7	2443.8	2454.2	2204.3	2043.4
42.5°	2319.8	2306.4	2304.5	2301.9	2284.5	2312.3	2395.5	2534.1	2647.7	2475.7	2351.0
45°	2179.4	2171.2	2180.9	2225.4	2247.3	2301.2	2420.8	2577.9	2817.8	2751.7	2641.8
47.5°	2001.5	1996.6	2018.6	2089.1	2160.1	2267.0	2437.5	2589.8	2934.8	2934.8	2832.3
50°	1802.4	1800.5	1829.5	1932.0	2043.1	2204.3	2435.6	2600.9	2986.1	2988.7	2899.5
52.5°	1524.6	1534.3	1611.5	1746.7	1897.5	2105.8	2409.6	2632.1	3015.0	3021.0	2944.5
55°	1204.4	1213.7	1330.4	1512.3	1705.5	1986.2	2332.0	2622.8	3020.6	3034.0	2970.1
57.5°	961.6	963.4	1036.2	1252.4	1491.5	1833.2	2242.5	2561.2	3004.3	3062.6	3009.5
60°	752.5	758.4	807.1	978.3	1243.4	1636.0	2142.6	2500.3	3013.5	3089.7	3045.1
62.5°	560.4	561.9	607.2	739.8	987.9	1384.6	2007.0	2435.3	3026.5	3120.1	3059.6
65°	365.1	364.7	408.5	528.1	738.0	1113.1	1794.2	2333.5	3027.6	3113.4	2993.1
67.5°	232.1	233.6	252.6	327.9	494.0	840.1	1504.5	2144.5	2974.9	2951.5	2751.0
70°	188.3	188.7	194.6	214.3	300.8	574.2	1130.9	1848.8	2808.2	2628.8	2391.1
72.5°	167.9	168.2	171.2	173.4	200.6	345.0	742.1	1501.2	2511.8	2240.7	1983.6
75°	150.8	150.8	152.6	150.4	164.5	216.5	421.2	1128.7	2068.7	1744.8	1498.6
77.5°	132.2	131.8	131.8	130.7	142.2	158.2	211.0	787.7	1490.1	1190.0	972.0
80°	112.2	111.4	112.5	111.8	122.9	120.0	122.9	486.2	807.8	545.6	413.7
82.5°	87.3	87.3	90.6	91.4	101.4	86.9	86.5	230.6	306.8	203.9	152.6
85°	45.7	51.3	69.1	72.1	76.5	54.6	63.5	107.7	122.9	78.0	55.7
87.5°	13.7	14.5	42.3	47.5	47.2	27.5	39.0	52.0	57.6	34.5	22.7
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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	555.2	542.2	514.8	490.2	471.7	453.9	441.6	435.3	427.1	428.2	425.6
5°	572.3	545.6	496.9	457.6	431.2	411.1	398.9	392.6	386.6	383.7	385.9
7.5°	598.0	556.4	488.4	440.9	413.4	396.3	389.6	387.7	386.3	385.1	387.0
10°	631.0	575.3	486.9	434.9	409.7	399.3	396.7	395.5	394.1	392.6	393.7
12.5°	664.8	596.1	492.1	436.4	415.6	407.8	404.5	403.0	399.3	397.4	397.8
15°	707.1	621.4	499.2	442.3	423.4	413.4	408.9	404.8	398.9	396.3	397.4
17.5°	752.5	651.4	508.8	447.9	426.4	414.1	405.2	399.3	393.3	389.6	390.0
20°	803.7	681.1	517.4	449.8	424.9	407.8	397.0	390.0	382.2	378.1	377.0
22.5°	856.8	712.3	524.0	448.3	416.7	397.0	384.8	376.2	366.9	360.6	361.0
25°	921.4	754.7	529.6	443.1	405.9	382.9	369.2	358.4	348.7	342.8	343.2
27.5°	999.1	802.6	536.3	434.9	392.9	367.7	351.7	340.9	331.7	326.1	325.3
30°	1102.7	865.0	543.7	424.9	376.6	351.0	335.4	324.2	315.3	310.1	310.1
32.5°	1219.3	941.1	548.9	413.0	358.4	333.1	319.0	310.1	303.4	296.4	295.6
35°	1320.7	1000.2	564.9	403.7	342.4	316.4	306.8	300.5	290.4	283.7	282.6
37.5°	1469.6	1104.2	612.1	401.1	323.1	303.4	301.6	289.7	278.2	265.6	264.4
40°	1709.6	1284.3	667.0	388.5	303.1	296.4	294.5	278.5	251.4	243.6	242.2
42.5°	2014.8	1501.2	673.0	351.7	288.9	290.4	284.9	253.7	241.8	235.8	234.4
45°	2290.4	1677.2	639.2	314.2	278.5	281.5	270.0	244.4	237.7	232.1	230.6
47.5°	2445.3	1731.5	575.3	286.0	270.8	273.7	246.2	239.9	233.2	227.7	226.2
50°	2488.7	1684.3	501.0	269.6	264.8	265.9	239.9	236.2	230.3	225.8	223.6
52.5°	2497.3	1613.7	432.3	260.0	260.4	250.3	234.4	231.4	227.7	220.6	218.0
55°	2501.0	1550.2	370.7	254.0	257.4	230.3	228.4	226.2	223.2	215.8	214.3
57.5°	2510.7	1468.9	322.4	249.6	253.7	221.0	221.7	220.2	216.5	213.2	212.4
60°	2483.2	1356.4	285.2	245.1	248.5	213.2	213.9	214.7	211.3	210.6	210.2
62.5°	2391.1	1196.6	253.7	239.2	237.7	205.4	205.4	208.4	205.4	206.5	206.5
65°	2201.3	993.1	225.4	228.0	221.0	196.8	196.5	201.7	197.2	202.0	202.4
67.5°	1877.8	751.7	196.5	210.6	203.5	187.9	189.4	193.5	187.6	197.6	197.6
70°	1486.3	511.4	166.4	186.1	185.7	177.9	182.7	182.4	175.7	190.5	187.9
72.5°	1107.1	328.3	135.6	156.0	162.3	167.1	176.0	168.2	161.9	170.5	162.7
75°	773.6	205.8	107.0	123.3	135.2	155.2	167.9	152.3	143.0	140.4	138.2
77.5°	463.1	131.5	84.3	94.0	105.5	141.1	157.5	135.6	121.4	120.0	115.5
80°	213.6	85.8	64.3	70.2	75.0	121.1	143.4	115.9	98.8	97.3	92.1
82.5°	96.6	56.5	47.9	50.1	50.5	96.2	121.1	91.7	75.4	122.2	105.8
85°	44.9	36.4	31.2	29.7	30.1	64.3	88.0	63.1	85.8	66.9	50.9
87.5°	19.3	18.6	16.0	12.6	11.5	13.7	33.8	26.4	37.5	14.9	10.0
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)