

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: P674031

Luminaire Tested: **CCP-SA-1F-830-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674031  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-830-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ SL4 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

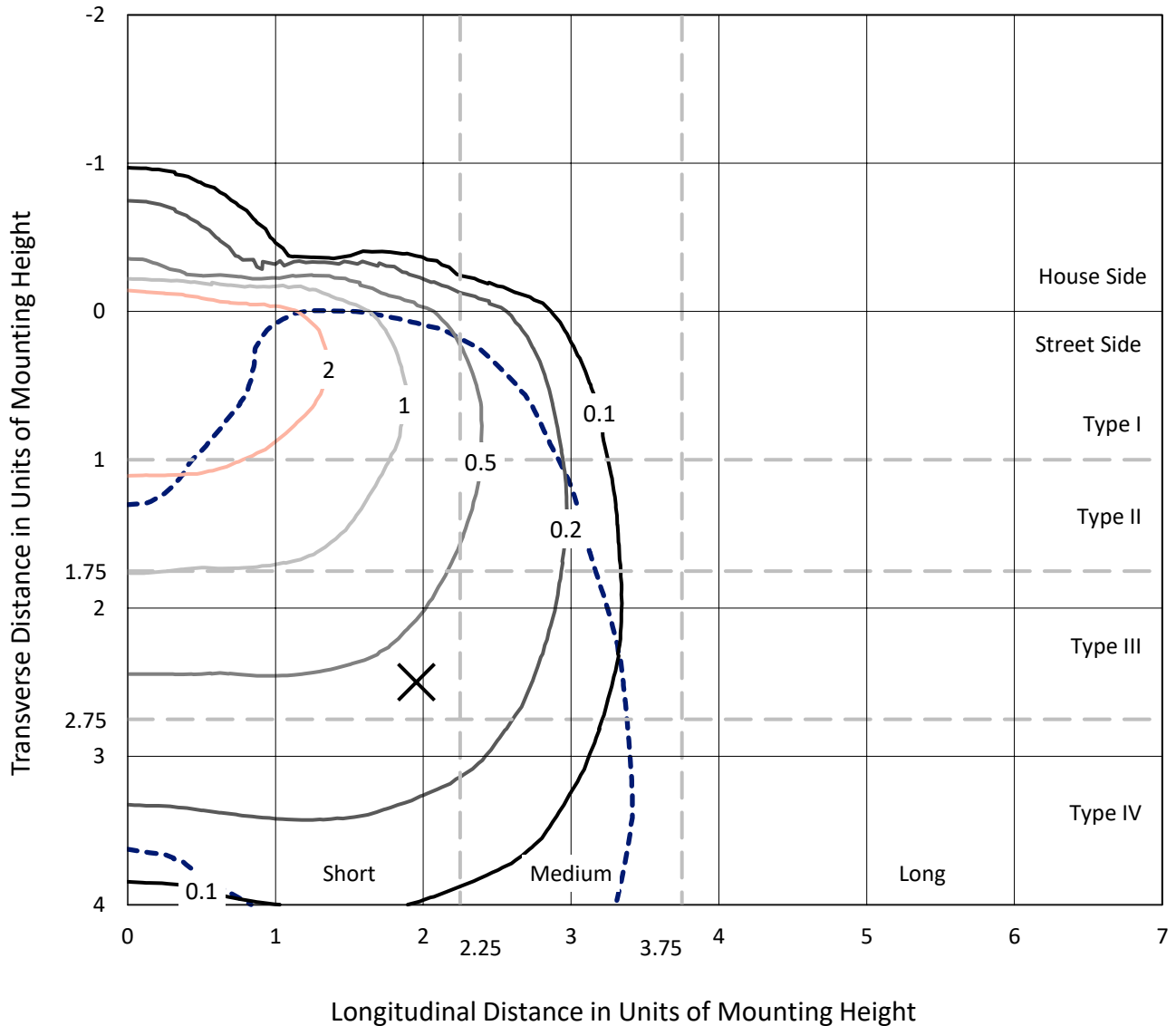
Lumens per Lamp: N/A  
Luminaire Lumens: 4921.2 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

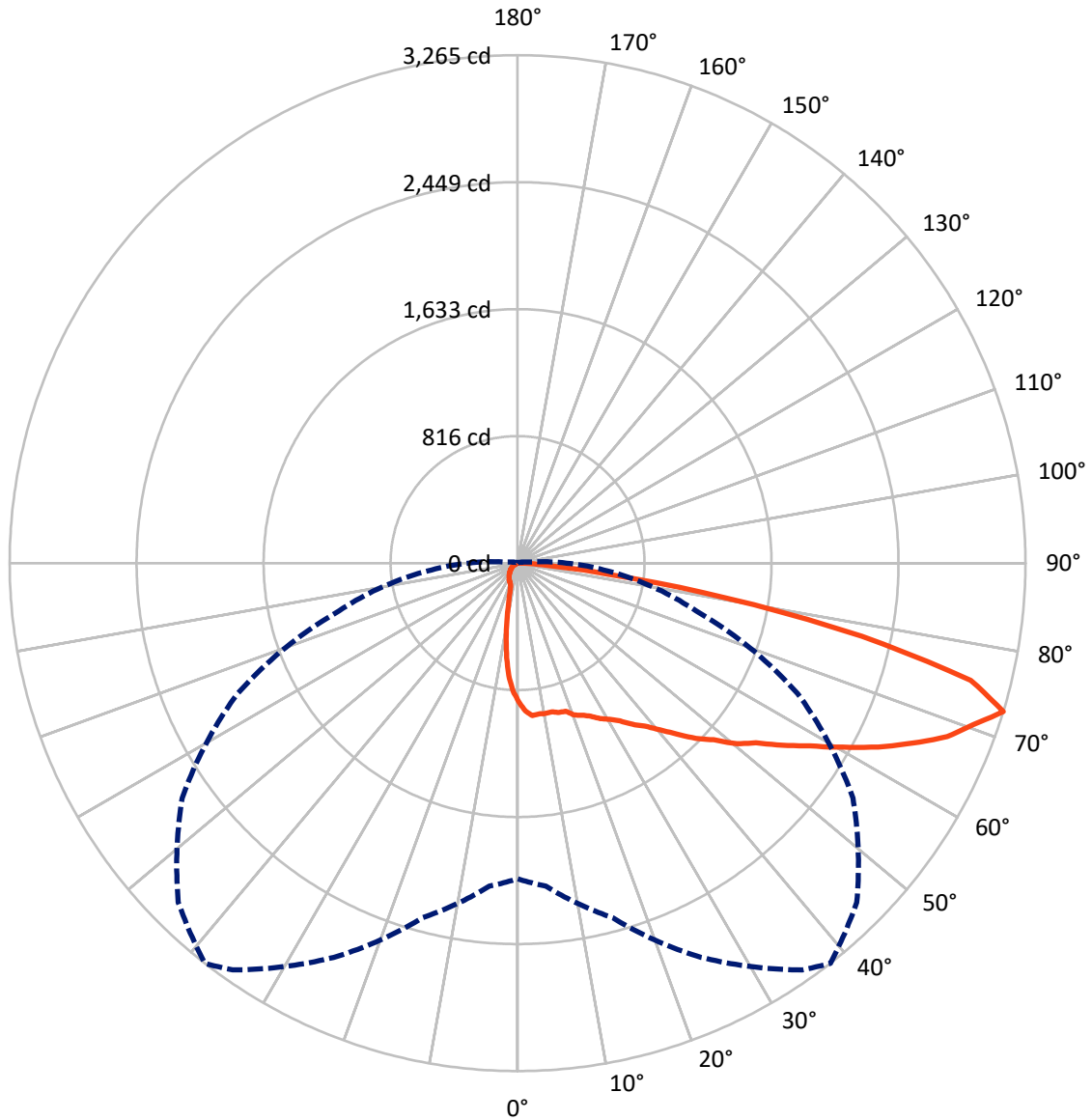
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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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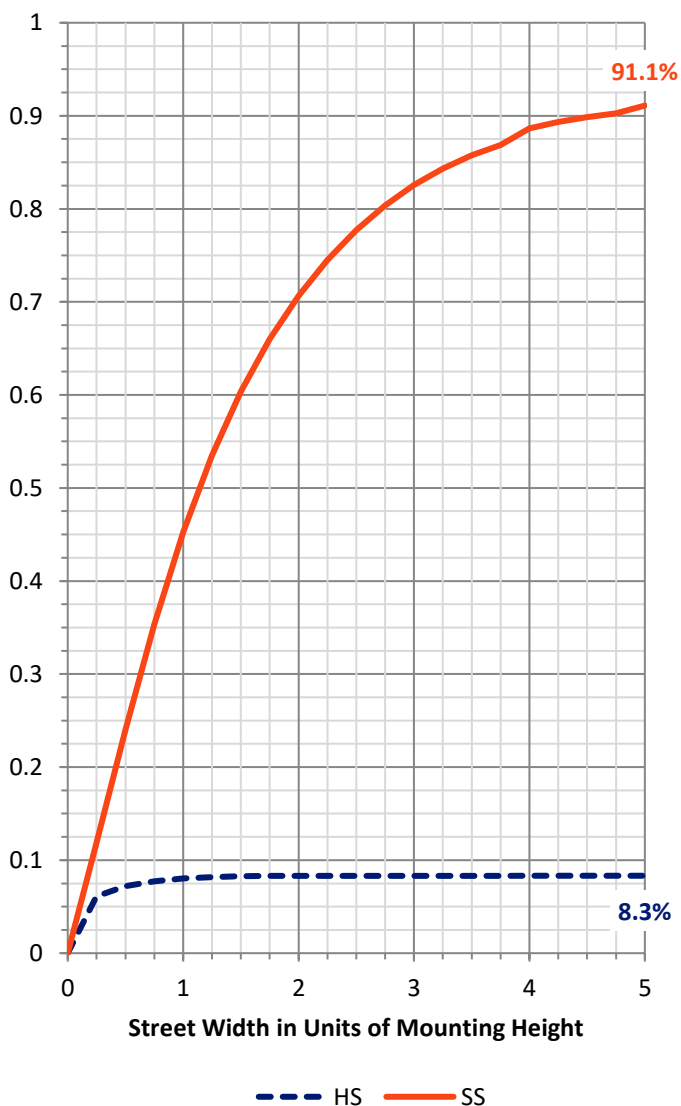
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	412.2	0.0	412.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4509.0	0.0	4509.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4921.2	0.0	4921.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	1.6
10°-20°	190.7	3.9
20°-30°	305.8	6.2
30°-40°	461.6	9.4
40°-50°	702.5	14.3
50°-60°	989.1	20.1
60°-70°	1208.2	24.6
70°-80°	877.3	17.8
80°-90°	108.0	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°	4921.2	100.0
0°-180°	4921.2	100.0



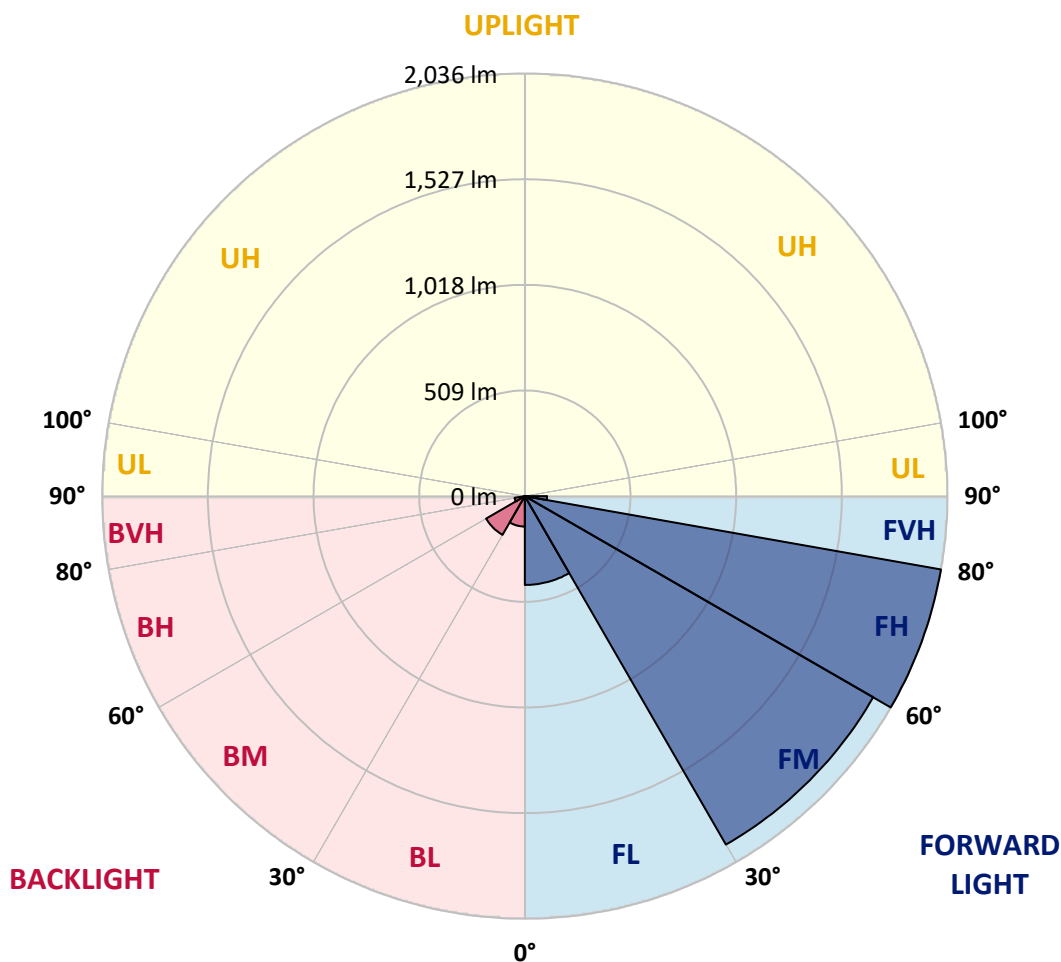
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.0	8.7			
FM (30°-60°)	1938.0	39.4			
FH (60°-80°)	2035.5	41.4			G2/5000
FVH (80°-90°)	107.5	2.2			G2/225
BL (0°-30°)	146.3	3.0	B1/500		
BM (30°-60°)	215.3	4.4	B0/220		
BH (60°-80°)	50.0	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°	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9
2.5°	977.7	977.7	986.9	977.7	974.2	952.3	953.4	941.9	930.3	914.2	899.2
5°	989.2	997.3	1003.1	995.0	982.3	984.6	992.7	970.7	939.6	920.0	886.5
7.5°	984.6	1001.9	997.3	992.7	984.6	978.8	967.3	958.0	943.0	924.6	885.3
10°	981.1	986.9	988.1	984.6	967.3	983.4	970.7	955.7	937.3	915.3	866.9
12.5°	968.4	968.4	978.8	970.7	973.0	981.1	975.4	971.9	952.3	933.8	891.1
15°	954.6	959.2	975.4	988.1	999.6	996.1	992.7	982.3	965.0	944.2	899.2
17.5°	958.0	960.4	985.7	1008.8	1003.1	1000.8	1019.2	997.3	980.0	956.9	906.1
20°	970.7	977.7	1006.5	1036.5	1042.3	1042.3	1035.4	1022.7	998.4	967.3	918.8
22.5°	983.4	985.7	1033.1	1071.2	1076.9	1061.9	1067.7	1030.8	1007.7	990.4	931.5
25°	1031.9	1027.3	1078.1	1108.1	1104.6	1089.6	1083.9	1051.5	1042.3	1011.1	959.2
27.5°	1097.7	1078.1	1127.7	1146.2	1127.7	1132.3	1116.2	1081.6	1061.9	1043.5	971.9
30°	1138.1	1149.7	1176.2	1194.7	1163.5	1164.7	1156.6	1118.5	1088.5	1093.1	1014.6
32.5°	1200.4	1208.5	1228.1	1236.2	1212.0	1209.7	1201.6	1171.6	1149.7	1145.0	1072.3
35°	1267.4	1282.4	1283.5	1285.9	1263.9	1273.2	1261.6	1218.9	1230.5	1238.5	1141.6
37.5°	1333.2	1319.3	1342.4	1352.8	1328.6	1328.6	1332.0	1303.2	1323.9	1348.2	1239.7
40°	1358.6	1364.3	1404.7	1396.7	1425.5	1408.2	1420.9	1414.0	1431.3	1486.7	1378.2
42.5°	1385.1	1392.0	1446.3	1461.3	1495.9	1501.7	1520.2	1521.3	1572.1	1663.3	1510.9
45°	1435.9	1424.4	1498.2	1535.2	1591.7	1607.9	1629.8	1648.3	1727.9	1835.3	1662.1
47.5°	1482.1	1465.9	1550.2	1624.1	1693.3	1696.8	1756.8	1776.4	1871.1	1993.4	1812.2
50°	1546.7	1552.5	1588.3	1715.2	1785.7	1826.1	1867.6	1932.2	2037.3	2167.7	1920.7
52.5°	1613.7	1607.9	1667.9	1792.6	1903.4	1918.4	2011.9	2084.6	2198.9	2297.0	1969.2
55°	1695.6	1702.5	1725.6	1889.5	2030.4	2066.1	2171.2	2247.4	2372.0	2352.4	1985.3
57.5°	1777.6	1770.6	1822.6	1998.0	2189.6	2216.2	2355.9	2400.9	2485.1	2389.3	1944.9
60°	1858.4	1871.1	1893.0	2120.4	2363.9	2403.2	2514.0	2537.1	2555.6	2406.7	1913.8
62.5°	1950.7	1920.7	1988.8	2249.7	2520.9	2602.9	2690.6	2599.4	2583.3	2375.5	1842.2
65°	1996.9	2006.1	2095.0	2397.4	2729.8	2789.9	2801.4	2683.7	2600.6	2306.2	1775.3
67.5°	2068.5	2081.1	2194.3	2548.6	2944.5	2978.0	2936.5	2759.9	2585.6	2216.2	1534.0
70°	2077.7	2108.8	2327.0	2706.8	3079.6	3108.4	3076.1	2810.6	2464.4	1861.8	1135.8
72.5°	2029.2	2084.6	2359.3	2796.8	3192.7	3265.4	3084.2	2631.7	1986.5	1187.7	581.8
75°	1532.9	1579.0	2159.6	2662.9	2991.9	3009.2	2707.9	2008.4	1131.2	405.1	148.9
77.5°	794.1	873.8	1441.7	2035.0	2279.7	2261.2	1884.9	1183.1	389.0	106.2	60.0
80°	455.9	475.6	630.2	1142.7	1433.6	1363.2	1042.3	510.2	170.8	53.1	39.2
82.5°	225.1	252.8	339.4	511.3	716.8	589.8	391.3	305.9	95.8	28.9	34.6
85°	48.5	50.8	173.1	244.7	290.9	191.6	133.9	257.4	34.6	17.3	33.5
87.5°	34.6	33.5	48.5	109.7	80.8	49.6	79.6	135.0	8.1	8.1	6.9
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°	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9
2.5°	889.9	879.6	868.0	846.1	840.3	836.8	817.2	816.1	812.6	804.5	801.1
5°	865.7	848.4	826.5	803.4	784.9	751.4	711.0	690.3	664.9	666.0	657.9
7.5°	862.2	829.9	798.8	750.3	691.4	629.1	566.7	526.3	497.5	480.2	483.6
10°	846.1	821.8	771.1	681.0	586.4	491.7	412.1	352.1	317.4	290.9	299.0
12.5°	853.0	805.7	734.1	614.1	479.0	362.4	263.2	205.5	180.1	170.8	173.1
15°	848.4	805.7	712.2	541.4	376.3	245.9	170.8	152.4	147.7	147.7	145.4
17.5°	862.2	814.9	675.2	469.8	270.1	163.9	146.6	143.1	139.7	139.7	139.7
20°	881.9	819.5	649.9	390.1	190.5	144.3	137.4	135.0	133.9	133.9	132.7
22.5°	883.0	814.9	602.5	302.4	146.6	136.2	130.4	129.3	129.3	127.0	127.0
25°	889.9	819.5	551.7	227.4	136.2	128.1	123.5	122.4	123.5	122.4	121.2
27.5°	907.3	827.6	501.0	166.2	128.1	121.2	117.7	116.6	116.6	116.6	114.3
30°	929.2	827.6	444.4	137.4	121.2	114.3	110.8	109.7	108.5	108.5	108.5
32.5°	975.4	854.2	375.1	122.4	112.0	106.2	102.7	102.7	101.6	101.6	100.4
35°	1033.1	872.6	304.7	113.1	103.9	98.1	94.7	94.7	93.5	93.5	92.3
37.5°	1104.6	918.8	233.2	106.2	95.8	90.0	86.6	86.6	86.6	85.4	85.4
40°	1206.2	966.1	173.1	97.0	87.7	82.0	79.6	78.5	77.3	77.3	75.0
42.5°	1314.7	1038.8	129.3	90.0	80.8	76.2	72.7	69.3	69.3	65.8	65.8
45°	1432.4	1102.3	105.0	82.0	73.9	68.1	64.6	62.3	58.9	56.6	56.6
47.5°	1547.9	1141.6	92.3	72.7	66.9	62.3	58.9	54.3	49.6	48.5	47.3
50°	1641.4	1153.1	82.0	65.8	61.2	56.6	51.9	46.2	41.6	39.2	38.1
52.5°	1641.4	1089.6	73.9	58.9	55.4	50.8	45.0	38.1	32.3	30.0	28.9
55°	1641.4	989.2	65.8	54.3	49.6	46.2	38.1	31.2	25.4	21.9	20.8
57.5°	1617.1	868.0	58.9	48.5	43.9	39.2	32.3	24.2	18.5	15.0	15.0
60°	1550.2	741.0	50.8	42.7	38.1	32.3	25.4	17.3	11.5	8.1	8.1
62.5°	1464.8	589.8	43.9	35.8	31.2	26.5	19.6	11.5	4.6	2.3	2.3
65°	1315.9	435.2	38.1	30.0	24.2	19.6	12.7	4.6	0.0	0.0	0.0
67.5°	1086.2	290.9	30.0	24.2	20.8	13.9	8.1	1.2	0.0	0.0	0.0
70°	764.1	165.1	23.1	17.3	15.0	9.2	2.3	0.0	0.0	0.0	0.0
72.5°	314.0	72.7	16.2	12.7	10.4	4.6	0.0	0.0	0.0	0.0	0.0
75°	85.4	32.3	10.4	6.9	5.8	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	49.6	21.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.2	10.4	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.2	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	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)