

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: P673967

Luminaire Tested: **CCP-SA-2B-730-U-SL4-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673967  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-730-U-SL4-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL4 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

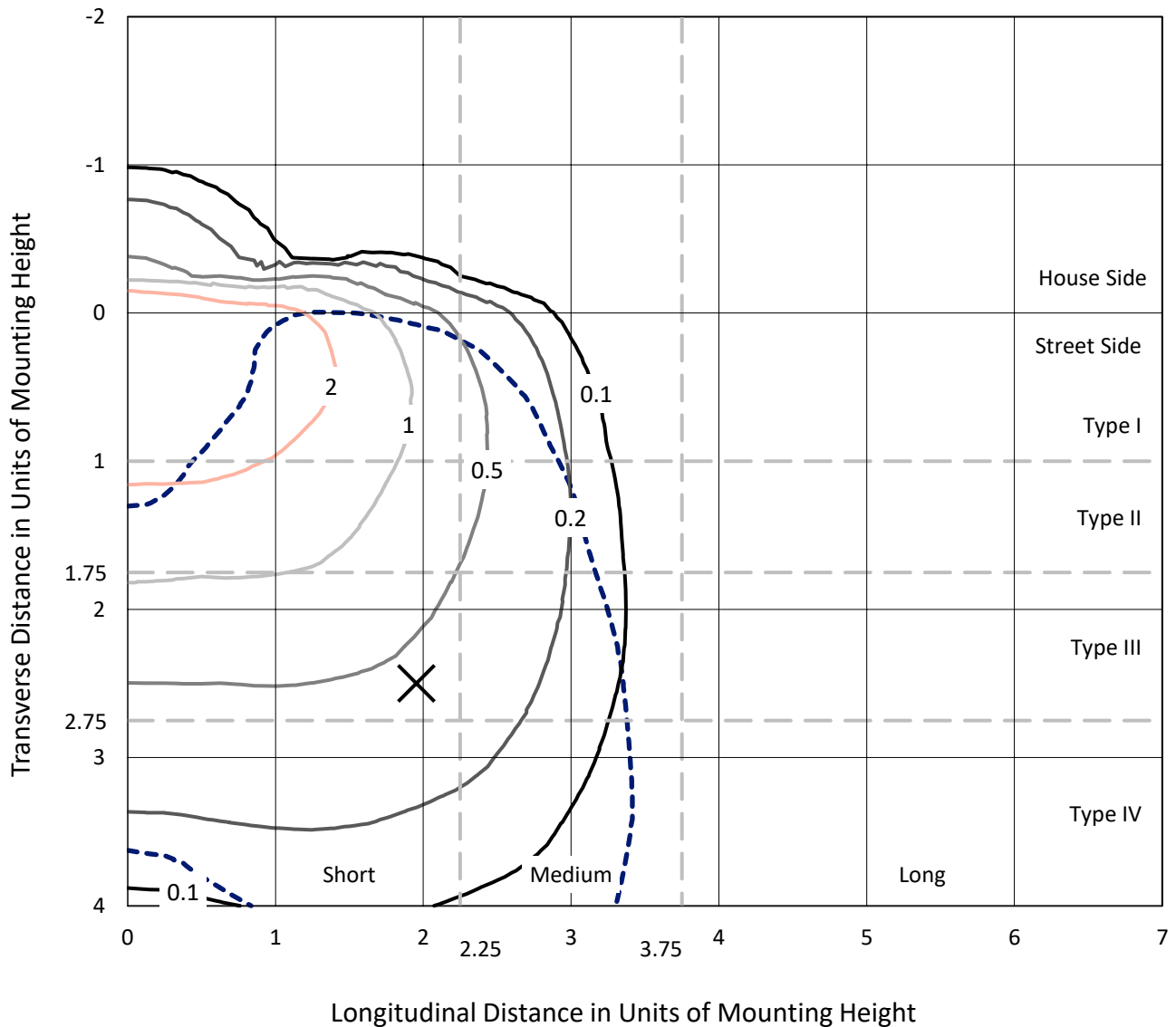
Lumens per Lamp: N/A  
Luminaire Lumens: 5194.7 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

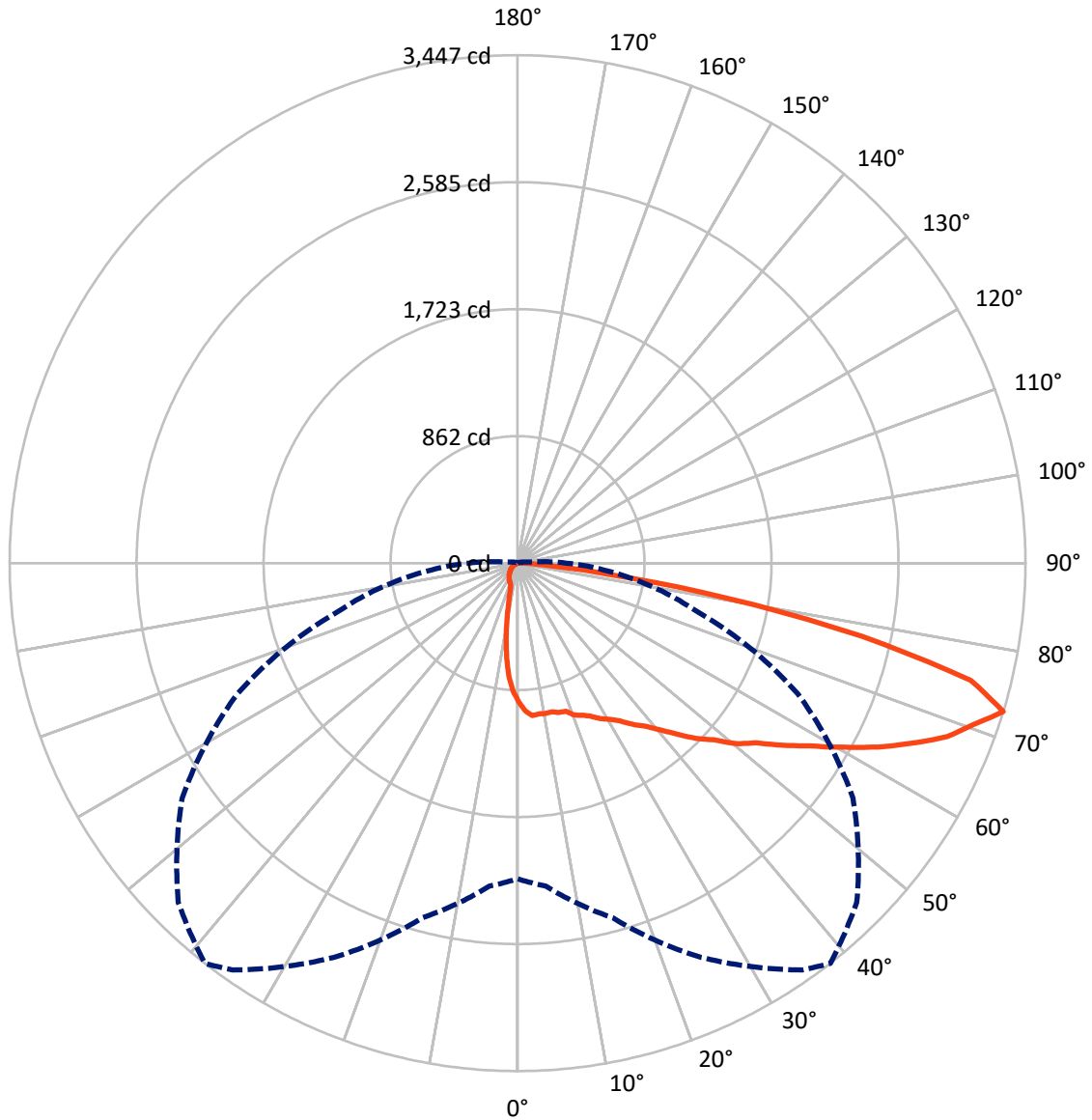
× Max cd  
 - - - 1/2 Max cd



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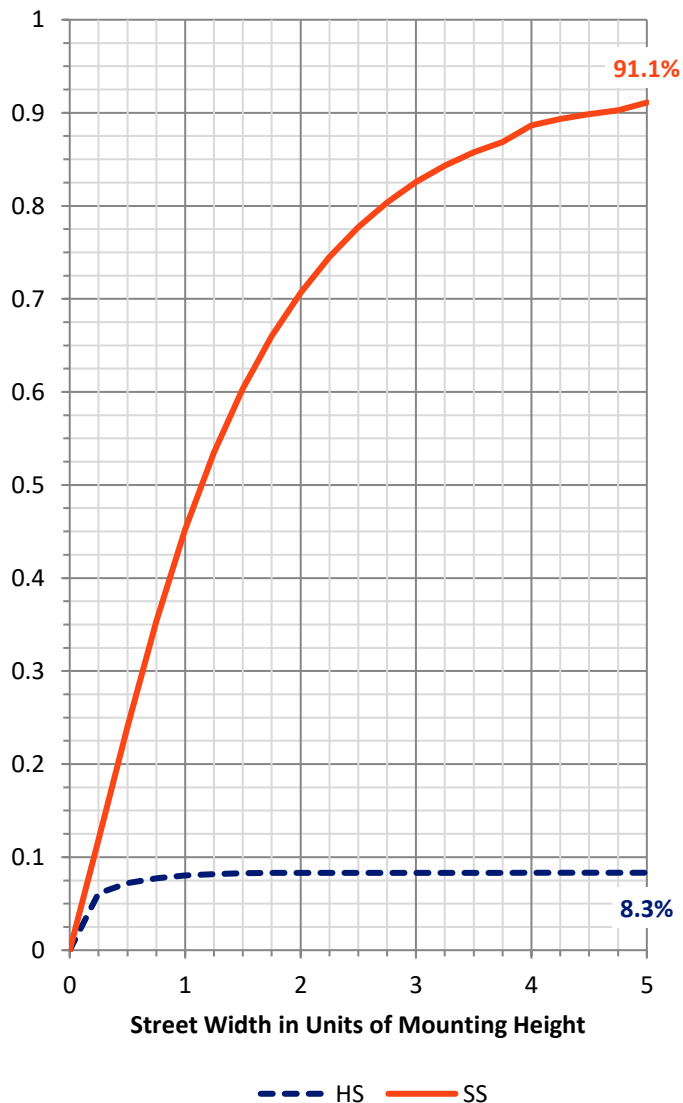
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	435.1	0.0	435.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4759.6	0.0	4759.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5194.7	0.0	5194.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	1.6
10°-20°	201.3	3.9
20°-30°	322.7	6.2
30°-40°	487.3	9.4
40°-50°	741.6	14.3
50°-60°	1044.1	20.1
60°-70°	1275.3	24.6
70°-80°	926.1	17.8
80°-90°	114.0	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°	5194.7	100.0
0°-180°	5194.7	100.0



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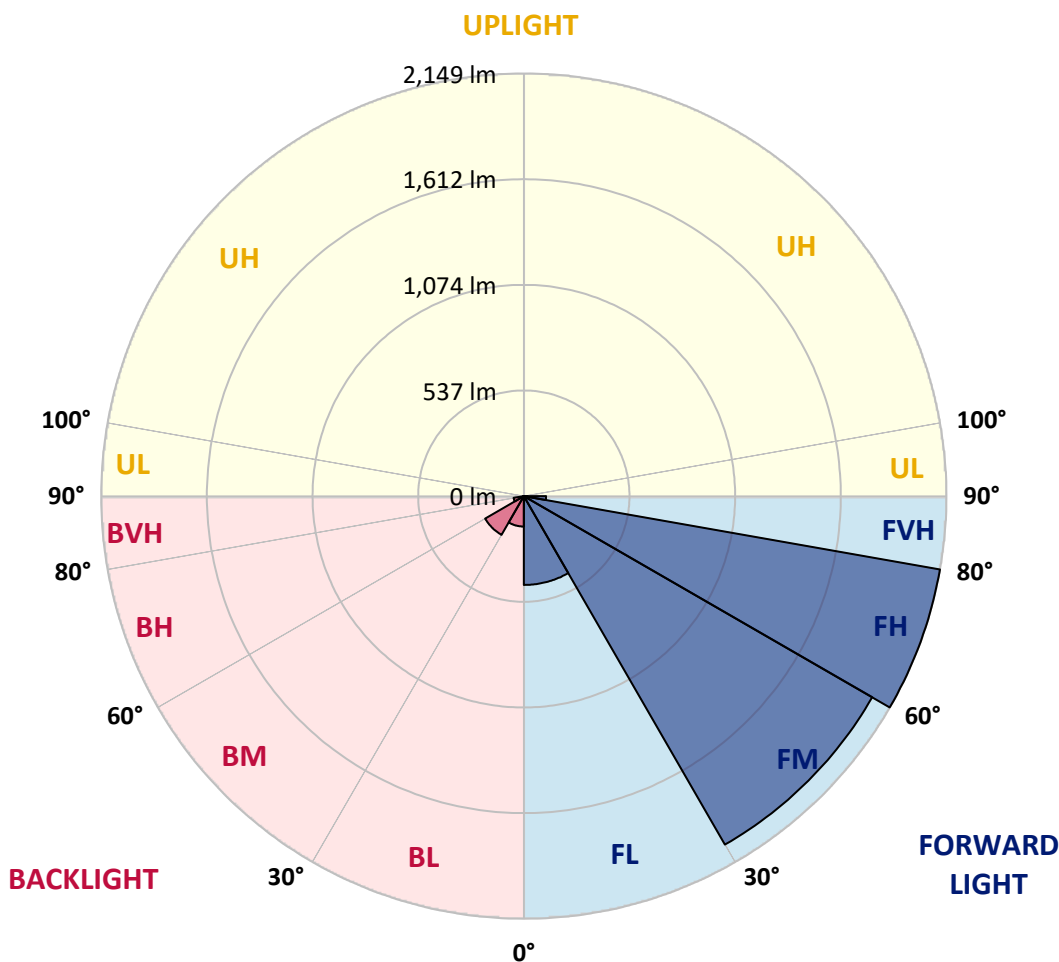
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.8	8.7			
FM (30°-60°)	2045.7	39.4			
FH (60°-80°)	2148.7	41.4			G2/5000
FVH (80°-90°)	113.5	2.2			G2/225
BL (0°-30°)	154.5	3.0	B1/500		
BM (30°-60°)	227.3	4.4	B1/1000		
BH (60°-80°)	52.8	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°	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4
2.5°	1032.0	1032.0	1041.8	1032.0	1028.4	1005.2	1006.4	994.2	982.1	965.0	949.2
5°	1044.2	1052.7	1058.8	1050.3	1036.9	1039.3	1047.8	1024.7	991.8	971.1	935.8
7.5°	1039.3	1057.6	1052.7	1047.8	1039.3	1033.2	1021.0	1011.3	995.5	976.0	934.5
10°	1035.7	1041.8	1043.0	1039.3	1021.0	1038.1	1024.7	1008.9	989.4	966.2	915.0
12.5°	1022.3	1022.3	1033.2	1024.7	1027.1	1035.7	1029.6	1025.9	1005.2	985.7	940.6
15°	1007.6	1012.5	1029.6	1043.0	1055.2	1051.5	1047.8	1036.9	1018.6	996.7	949.2
17.5°	1011.3	1013.7	1040.5	1064.9	1058.8	1056.4	1075.9	1052.7	1034.4	1010.1	956.5
20°	1024.7	1032.0	1062.5	1094.1	1100.2	1100.2	1092.9	1079.5	1053.9	1021.0	969.9
22.5°	1038.1	1040.5	1090.5	1130.7	1136.8	1121.0	1127.0	1088.1	1063.7	1045.4	983.3
25°	1089.3	1084.4	1138.0	1169.7	1166.0	1150.2	1144.1	1110.0	1100.2	1067.3	1012.5
27.5°	1158.7	1138.0	1190.4	1209.9	1190.4	1195.3	1178.2	1141.7	1121.0	1101.5	1025.9
30°	1201.4	1213.6	1241.6	1261.1	1228.2	1229.4	1220.9	1180.7	1149.0	1153.8	1071.0
32.5°	1267.2	1275.7	1296.4	1304.9	1279.3	1276.9	1268.4	1236.7	1213.6	1208.7	1131.9
35°	1337.8	1353.7	1354.9	1357.3	1334.2	1343.9	1331.7	1286.7	1298.8	1307.4	1205.0
37.5°	1407.3	1392.7	1417.0	1428.0	1402.4	1402.4	1406.1	1375.6	1397.5	1423.1	1308.6
40°	1434.1	1440.2	1482.8	1474.3	1504.8	1486.5	1499.9	1492.6	1510.8	1569.3	1454.8
42.5°	1462.1	1469.4	1526.7	1542.5	1579.1	1585.2	1604.7	1605.9	1659.5	1755.8	1594.9
45°	1515.7	1503.5	1581.5	1620.5	1680.2	1697.3	1720.4	1739.9	1824.0	1937.3	1754.5
47.5°	1564.5	1547.4	1636.3	1714.3	1787.4	1791.1	1854.4	1875.2	1975.1	2104.2	1912.9
50°	1632.7	1638.8	1676.6	1810.6	1884.9	1927.5	1971.4	2039.6	2150.5	2288.2	2027.5
52.5°	1703.4	1697.3	1760.6	1892.2	2009.2	2025.0	2123.7	2200.5	2321.1	2424.7	2078.6
55°	1789.9	1797.2	1821.5	1994.6	2143.2	2181.0	2291.9	2372.3	2503.9	2483.2	2095.7
57.5°	1876.4	1869.1	1923.9	2109.1	2311.4	2339.4	2486.8	2534.3	2623.3	2522.1	2053.0
60°	1961.7	1975.1	1998.2	2238.2	2495.3	2536.8	2653.7	2678.1	2697.6	2540.4	2020.1
62.5°	2059.1	2027.5	2099.3	2374.7	2661.0	2747.5	2840.1	2743.9	2726.8	2507.5	1944.6
65°	2107.9	2117.6	2211.4	2530.7	2881.6	2944.9	2957.1	2832.8	2745.1	2434.4	1873.9
67.5°	2183.4	2196.8	2316.2	2690.3	3108.2	3143.5	3099.7	2913.3	2729.3	2339.4	1619.3
70°	2193.2	2226.1	2456.3	2857.2	3250.8	3281.2	3247.1	2966.9	2601.3	1965.3	1198.9
72.5°	2142.0	2200.5	2490.5	2952.2	3370.2	3446.9	3255.6	2778.0	2096.9	1253.8	614.1
75°	1618.1	1666.8	2279.7	2810.9	3158.2	3176.4	2858.4	2120.1	1194.1	427.7	157.2
77.5°	838.3	922.3	1521.8	2148.1	2406.4	2386.9	1989.7	1248.9	410.6	112.1	63.4
80°	481.3	502.0	665.3	1206.2	1513.3	1439.0	1100.2	538.5	180.3	56.0	41.4
82.5°	237.6	266.8	358.2	539.8	756.6	622.6	413.0	322.9	101.1	30.5	36.6
85°	51.2	53.6	182.8	258.3	307.0	202.3	141.3	271.7	36.6	18.3	35.3
87.5°	36.6	35.3	51.2	115.8	85.3	52.4	84.1	142.6	8.5	8.5	7.3
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°	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4
2.5°	939.4	928.4	916.3	893.1	887.0	883.4	862.6	861.4	857.8	849.2	845.6
5°	913.8	895.5	872.4	848.0	828.5	793.2	750.5	728.6	701.8	703.0	694.5
7.5°	910.2	876.0	843.2	792.0	729.8	664.0	598.2	555.6	525.1	506.9	510.5
10°	893.1	867.5	813.9	718.9	619.0	519.0	435.0	371.6	335.1	307.0	315.6
12.5°	900.4	850.5	774.9	648.2	505.6	382.6	277.8	216.9	190.1	180.3	182.8
15°	895.5	850.5	751.8	571.4	397.2	259.5	180.3	160.8	156.0	156.0	153.5
17.5°	910.2	860.2	712.8	495.9	285.1	173.0	154.7	151.1	147.4	147.4	147.4
20°	930.9	865.1	686.0	411.8	201.0	152.3	145.0	142.6	141.3	141.3	140.1
22.5°	932.1	860.2	636.0	319.2	154.7	143.8	137.7	136.5	136.5	134.0	134.0
25°	939.4	865.1	582.4	240.0	143.8	135.2	130.4	129.2	130.4	129.2	127.9
27.5°	957.7	873.6	528.8	175.5	135.2	127.9	124.3	123.1	123.1	123.1	120.6
30°	980.8	873.6	469.1	145.0	127.9	120.6	117.0	115.8	114.5	114.5	114.5
32.5°	1029.6	901.6	396.0	129.2	118.2	112.1	108.4	108.4	107.2	107.2	106.0
35°	1090.5	921.1	321.7	119.4	109.7	103.6	99.9	99.9	98.7	98.7	97.5
37.5°	1166.0	969.9	246.1	112.1	101.1	95.0	91.4	91.4	91.4	90.2	90.2
40°	1273.3	1019.8	182.8	102.3	92.6	86.5	84.1	82.9	81.6	81.6	79.2
42.5°	1387.8	1096.6	136.5	95.0	85.3	80.4	76.8	73.1	73.1	69.5	69.5
45°	1512.1	1163.6	110.9	86.5	78.0	71.9	68.2	65.8	62.1	59.7	59.7
47.5°	1633.9	1205.0	97.5	76.8	70.7	65.8	62.1	57.3	52.4	51.2	50.0
50°	1732.6	1217.2	86.5	69.5	64.6	59.7	54.8	48.7	43.9	41.4	40.2
52.5°	1732.6	1150.2	78.0	62.1	58.5	53.6	47.5	40.2	34.1	31.7	30.5
55°	1732.6	1044.2	69.5	57.3	52.4	48.7	40.2	32.9	26.8	23.2	21.9
57.5°	1707.0	916.3	62.1	51.2	46.3	41.4	34.1	25.6	19.5	15.8	15.8
60°	1636.3	782.2	53.6	45.1	40.2	34.1	26.8	18.3	12.2	8.5	8.5
62.5°	1546.2	622.6	46.3	37.8	32.9	28.0	20.7	12.2	4.9	2.4	2.4
65°	1389.0	459.3	40.2	31.7	25.6	20.7	13.4	4.9	0.0	0.0	0.0
67.5°	1146.5	307.0	31.7	25.6	21.9	14.6	8.5	1.2	0.0	0.0	0.0
70°	806.6	174.2	24.4	18.3	15.8	9.7	2.4	0.0	0.0	0.0	0.0
72.5°	331.4	76.8	17.1	13.4	11.0	4.9	0.0	0.0	0.0	0.0	0.0
75°	90.2	34.1	11.0	7.3	6.1	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	52.4	23.2	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.4	11.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	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)