

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: P674755

Luminaire Tested: **CCP-SA-2D-830-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674755  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-830-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

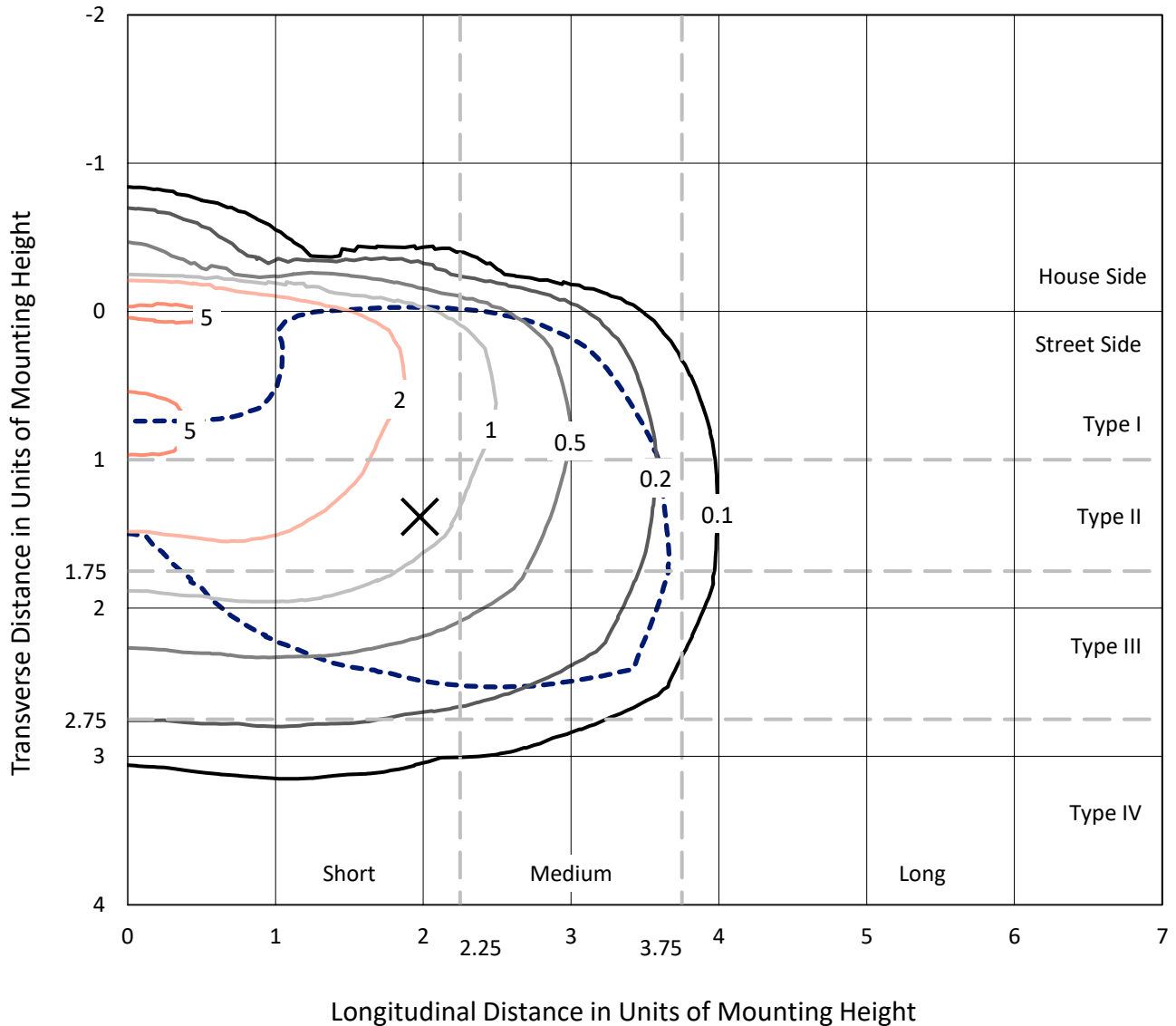
Lumens per Lamp: N/A  
Luminaire Lumens: 7028.4 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

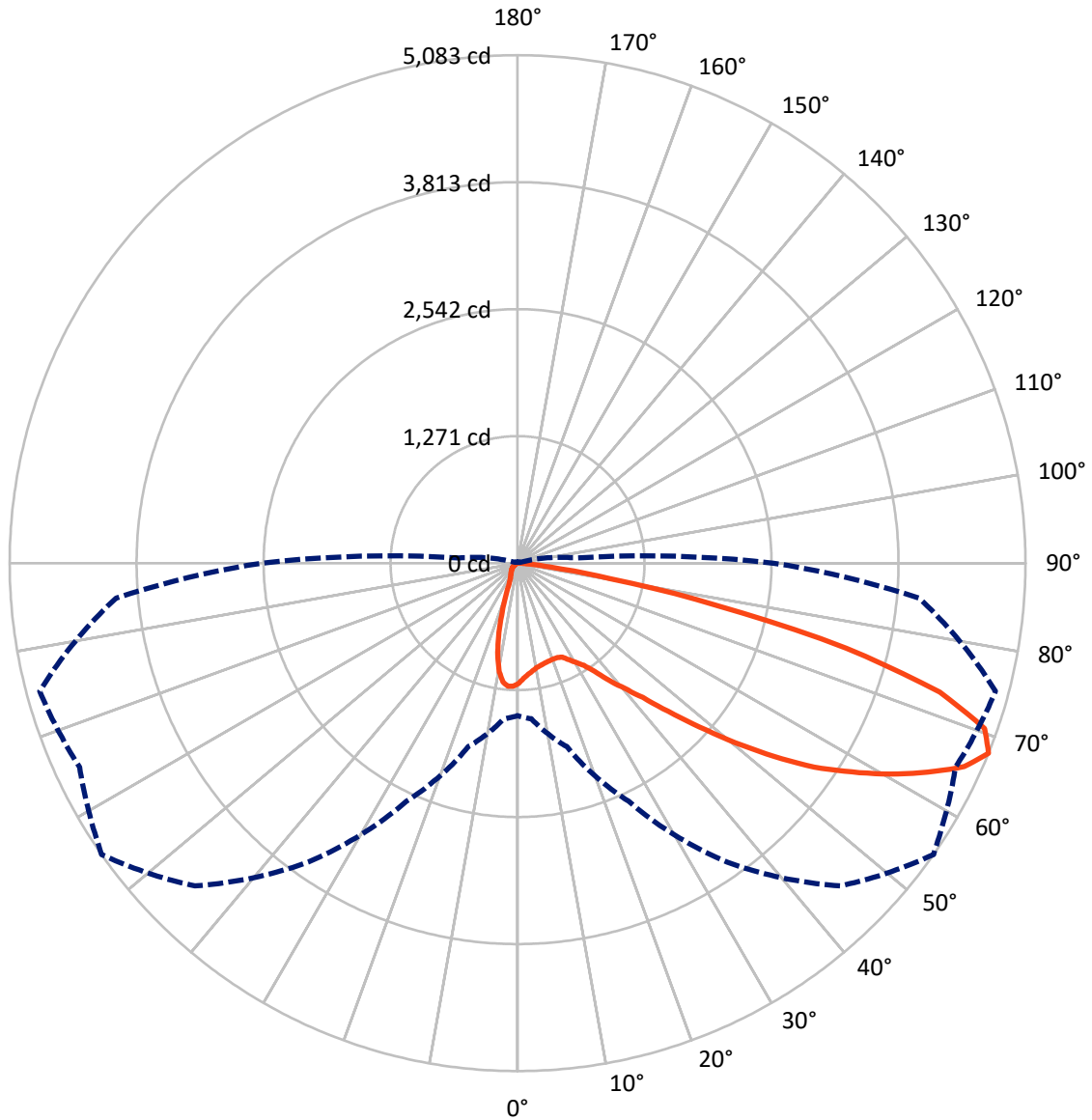
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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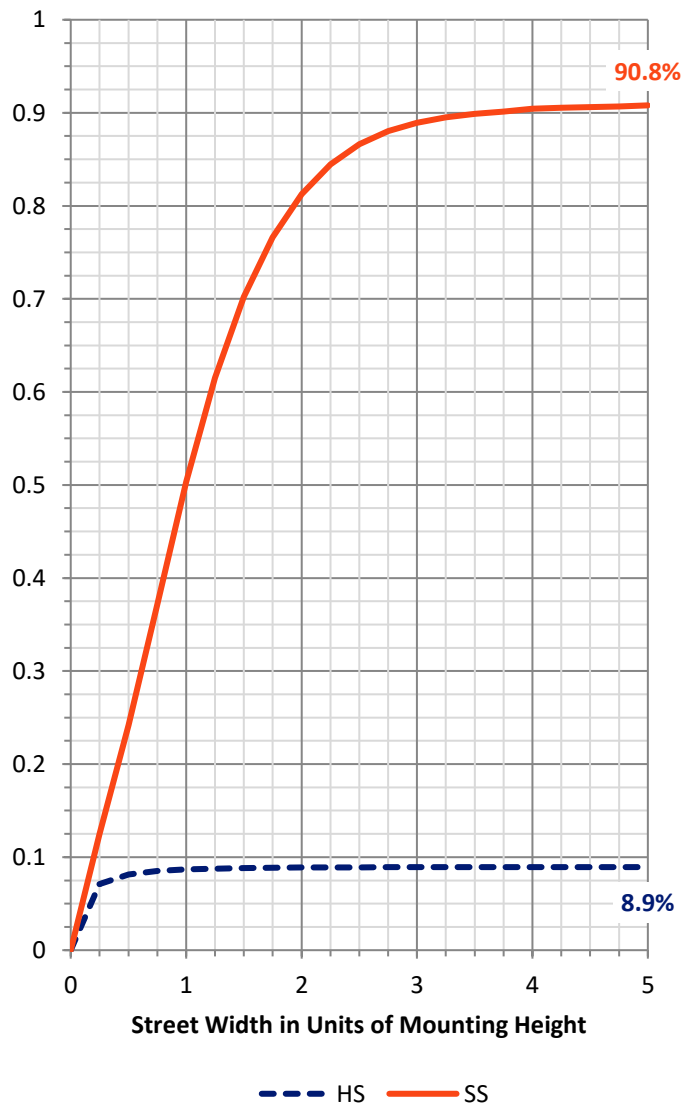
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	631.4	0.0	631.4
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	6397.0	0.0	6397.0
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	7028.4	0.0	7028.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	1.5
10°-20°	240.7	3.4
20°-30°	386.1	5.5
30°-40°	669.7	9.5
40°-50°	1116.7	15.9
50°-60°	1633.0	23.2
60°-70°	1904.1	27.1
70°-80°	924.0	13.1
80°-90°	48.3	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°	7028.4	100.0
0°-180°	7028.4	100.0



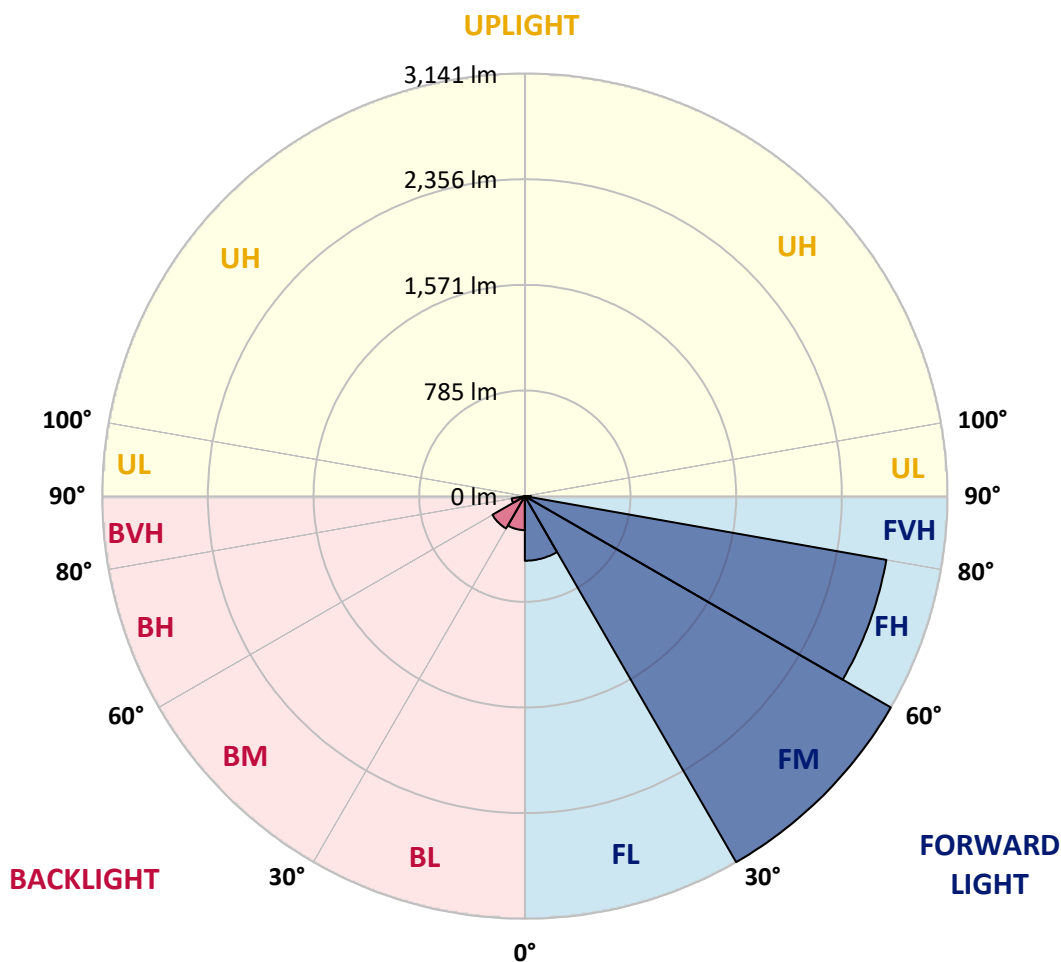
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.1	6.8			
FM (30°-60°)	3141.4	44.7			
FH (60°-80°)	2728.5	38.8			G2/5000
FVH (80°-90°)	46.9	0.7			G1/100
BL (0°-30°)	252.4	3.6	B1/500		
BM (30°-60°)	278.0	4.0	B1/1000		
BH (60°-80°)	99.6	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1111.9	1119.0	1128.1	1131.3	1142.3	1157.8	1153.3	1150.1	1167.6	1191.5	1199.3
5°	1042.6	1043.2	1057.5	1067.8	1086.6	1101.5	1117.7	1116.4	1148.1	1188.9	1214.8
7.5°	974.6	975.9	990.8	1007.0	1034.2	1063.3	1087.9	1086.6	1137.8	1192.2	1241.4
10°	885.2	891.7	909.8	938.3	981.1	1027.0	1061.4	1064.6	1126.1	1204.5	1277.6
12.5°	813.3	816.6	836.6	873.6	924.1	984.3	1048.4	1046.5	1128.7	1227.1	1324.9
15°	782.9	781.0	793.3	820.5	878.1	953.9	1035.4	1040.0	1137.8	1253.0	1374.1
17.5°	790.0	788.1	794.6	804.3	845.1	928.6	1028.3	1036.1	1152.0	1280.2	1420.1
20°	869.0	855.4	843.8	833.4	839.2	907.9	1023.8	1032.2	1160.4	1300.9	1468.7
22.5°	1021.2	1004.4	973.3	915.7	877.4	909.2	1025.1	1036.1	1179.2	1334.6	1527.6
25°	1269.2	1253.0	1186.3	1068.5	967.5	955.8	1042.6	1054.2	1222.6	1385.8	1590.4
27.5°	1597.5	1561.3	1480.3	1311.3	1116.4	1030.3	1095.0	1108.0	1284.1	1425.3	1633.1
30°	1870.2	1861.7	1784.0	1576.8	1321.7	1139.7	1154.0	1161.1	1312.0	1449.2	1675.9
32.5°	2153.1	2135.7	2064.4	1863.0	1560.0	1295.8	1220.0	1223.2	1348.2	1484.9	1738.1
35°	2399.2	2383.0	2323.4	2127.9	1838.4	1505.6	1329.4	1322.3	1423.3	1563.2	1822.2
37.5°	2627.2	2625.2	2572.8	2373.3	2088.4	1723.2	1490.7	1484.9	1540.5	1649.3	1936.2
40°	2849.9	2844.7	2800.1	2618.1	2334.5	1940.1	1644.2	1629.3	1640.3	1769.8	2086.4
42.5°	2986.6	2997.6	3013.1	2897.8	2626.5	2194.6	1838.4	1829.4	1827.4	1958.2	2283.9
45°	3060.4	3079.8	3171.1	3160.7	2936.0	2511.2	2114.9	2091.6	2083.9	2217.2	2509.9
47.5°	3132.3	3140.7	3290.3	3353.1	3232.6	2841.5	2449.1	2416.7	2385.0	2533.3	2780.0
50°	3136.8	3150.4	3335.6	3488.4	3481.3	3166.6	2824.0	2795.5	2759.3	2917.9	3043.5
52.5°	3073.3	3100.5	3329.8	3573.9	3635.4	3453.4	3213.2	3189.9	3160.1	3278.6	3265.6
55°	2634.9	2680.9	3215.8	3581.7	3743.5	3699.5	3604.3	3571.9	3542.8	3627.0	3483.2
57.5°	2426.4	2452.3	2870.0	3575.8	3881.5	3927.5	3943.6	3928.8	3888.0	3992.9	3710.5
60°	2301.4	2339.0	2704.9	3511.1	4030.4	4185.2	4286.9	4257.1	4207.2	4351.6	3954.0
62.5°	2151.8	2179.0	2540.4	3324.6	4119.1	4447.4	4608.7	4581.5	4478.5	4682.5	4150.9
65°	1876.0	1916.8	2278.8	3031.2	4000.0	4639.8	4911.7	4902.7	4724.0	4932.5	4204.6
67.5°	1526.9	1563.9	1901.2	2629.1	3651.6	4567.9	5083.4	5054.9	4835.3	4951.2	4034.3
70°	1146.2	1166.3	1420.7	2008.7	2991.7	4183.9	4959.0	4953.2	4666.3	4672.8	3511.7
72.5°	615.2	670.9	944.8	1344.3	2103.9	3388.7	4419.6	4396.3	4163.2	3827.1	2525.5
75°	215.0	231.2	503.2	755.1	1142.9	2257.4	3398.4	3344.0	3113.5	2489.2	1376.1
77.5°	132.1	145.1	223.4	385.9	444.9	979.8	2041.8	1971.2	1822.2	1076.2	470.1
80°	91.3	103.0	149.6	202.0	151.5	317.3	939.6	913.1	702.6	256.4	108.1
82.5°	51.2	61.5	113.3	99.1	60.9	82.2	325.7	301.8	187.1	69.3	36.3
85°	29.8	35.6	79.6	69.9	31.1	29.1	84.8	75.8	48.6	25.9	17.5
87.5°	15.5	20.1	58.3	46.6	18.8	10.4	19.4	18.8	12.3	9.1	11.7
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°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1213.5	1210.3	1227.1	1233.0	1231.7	1229.1	1235.5	1227.1	1226.5	1224.5	1222.6
5°	1235.5	1240.7	1254.3	1254.3	1236.2	1206.4	1188.3	1163.7	1142.9	1130.6	1128.7
7.5°	1268.6	1278.9	1288.0	1260.2	1198.0	1124.2	1045.8	984.3	930.5	902.7	900.1
10°	1315.2	1324.9	1317.8	1238.1	1104.7	951.9	824.3	696.1	632.0	597.1	597.1
12.5°	1370.9	1378.7	1335.3	1183.1	951.3	729.8	559.5	424.8	360.7	319.2	316.7
15°	1431.1	1433.1	1332.7	1087.3	761.5	490.2	321.2	235.7	208.5	202.7	201.4
17.5°	1483.6	1475.8	1305.5	945.4	548.5	292.0	204.0	184.6	179.4	179.4	179.4
20°	1532.8	1506.9	1251.1	780.3	351.6	198.8	175.5	170.3	170.3	171.0	171.0
22.5°	1587.2	1536.0	1173.4	597.1	226.0	170.3	164.5	161.9	161.2	163.2	162.5
25°	1651.3	1564.5	1062.0	412.5	174.8	158.7	156.1	153.5	153.5	153.5	153.5
27.5°	1686.9	1560.6	935.1	260.3	152.8	147.0	144.4	141.8	139.9	139.2	139.9
30°	1718.0	1538.0	769.3	182.0	137.9	131.5	129.5	126.3	122.4	121.1	121.1
32.5°	1758.8	1519.2	595.8	146.3	125.0	117.9	112.0	106.8	100.4	97.8	97.1
35°	1804.1	1484.9	436.5	128.9	113.3	104.3	95.2	86.8	78.4	75.8	75.1
37.5°	1860.4	1453.8	295.9	119.2	103.6	92.6	80.3	68.6	60.9	59.6	59.6
40°	1936.9	1427.9	204.6	110.7	94.5	81.6	66.7	54.4	49.2	47.9	47.9
42.5°	2041.1	1406.5	154.8	103.6	86.8	70.6	53.7	44.7	40.8	39.5	39.5
45°	2164.1	1373.5	130.8	97.1	79.0	59.6	44.7	37.6	35.6	35.6	35.6
47.5°	2305.3	1332.0	119.2	90.7	70.6	48.6	37.6	34.3	33.7	33.7	34.3
50°	2447.8	1282.8	110.7	82.9	60.9	41.4	34.3	32.4	32.4	33.0	33.0
52.5°	2544.3	1205.8	102.3	74.5	51.2	36.3	32.4	31.7	31.1	31.1	31.1
55°	2638.2	1138.4	90.7	65.4	42.7	33.7	31.1	30.4	30.4	29.8	29.8
57.5°	2735.9	1085.3	75.8	54.4	36.3	31.7	29.8	29.8	28.5	27.8	27.8
60°	2849.3	1038.7	58.3	42.7	31.7	29.8	27.8	27.2	25.9	24.6	24.6
62.5°	2882.3	940.3	44.0	34.3	27.2	25.9	25.3	24.0	20.7	18.1	18.8
65°	2796.2	785.5	35.0	27.2	22.0	22.0	20.1	16.8	13.6	11.7	11.7
67.5°	2558.5	586.7	28.5	21.4	17.5	16.8	14.2	12.3	8.4	7.1	7.1
70°	2108.5	387.9	23.3	16.8	14.2	11.7	9.7	9.1	6.5	5.2	5.2
72.5°	1477.7	210.5	19.4	13.6	10.4	7.8	6.5	5.8	4.5	3.9	3.2
75°	780.3	80.9	15.5	10.4	6.5	5.2	3.9	3.9	3.2	2.6	2.6
77.5°	267.4	34.3	11.0	5.8	4.5	3.2	2.6	1.9	2.6	1.9	1.9
80°	63.5	20.1	7.1	3.9	2.6	1.9	1.9	1.3	1.3	1.3	1.3
82.5°	27.8	11.7	4.5	2.6	2.6	1.9	1.3	0.6	0.6	0.6	0.6
85°	18.8	7.1	3.2	2.6	1.9	1.3	0.6	0.6	0.0	0.0	0.0
87.5°	14.9	4.5	2.6	2.6	1.9	1.3	0.6	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)