

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: P674789

Luminaire Tested: **CCP-SA-2E-850-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674789
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-850-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

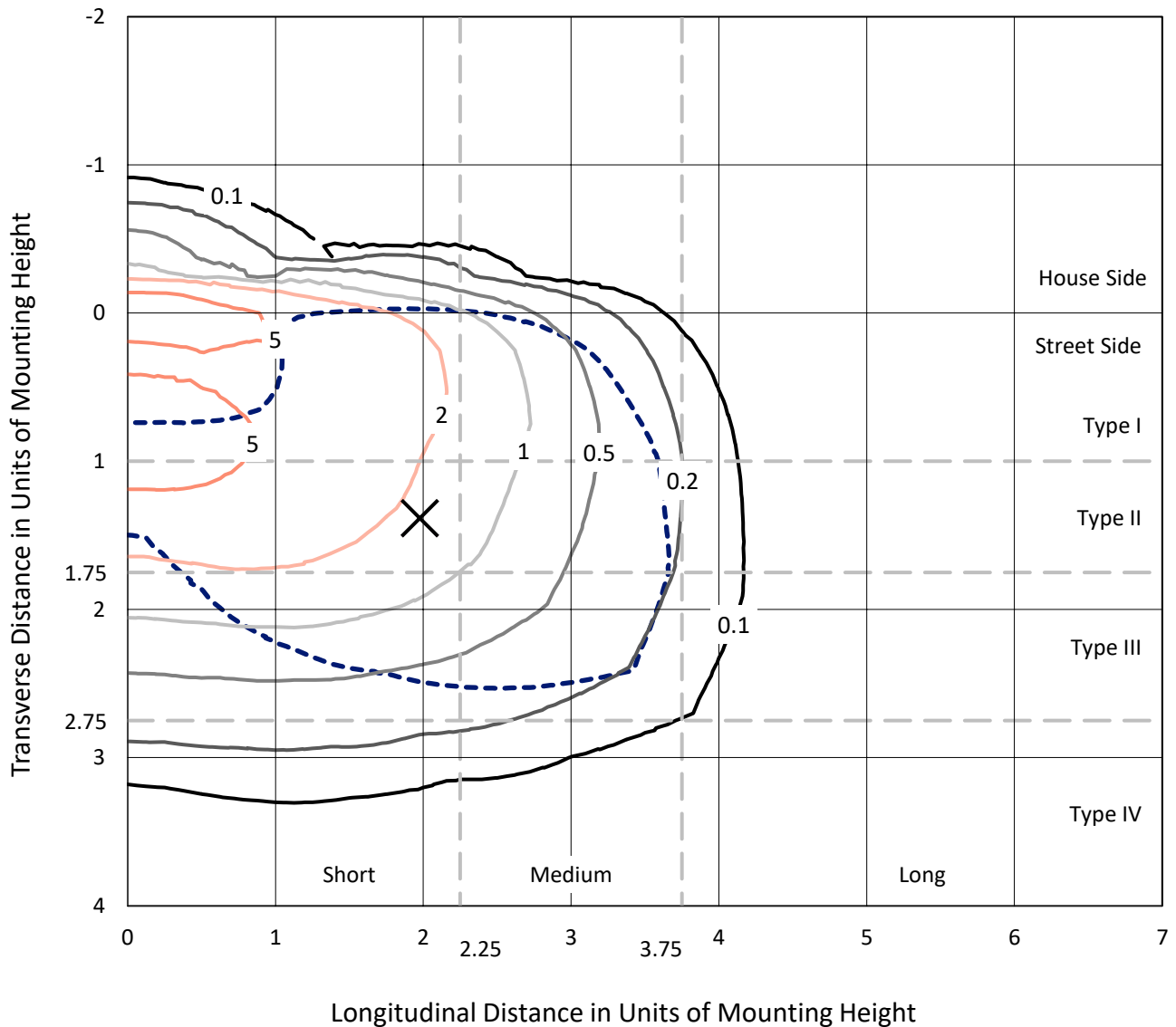
Lumens per Lamp: N/A
Luminaire Lumens: 9462.5 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

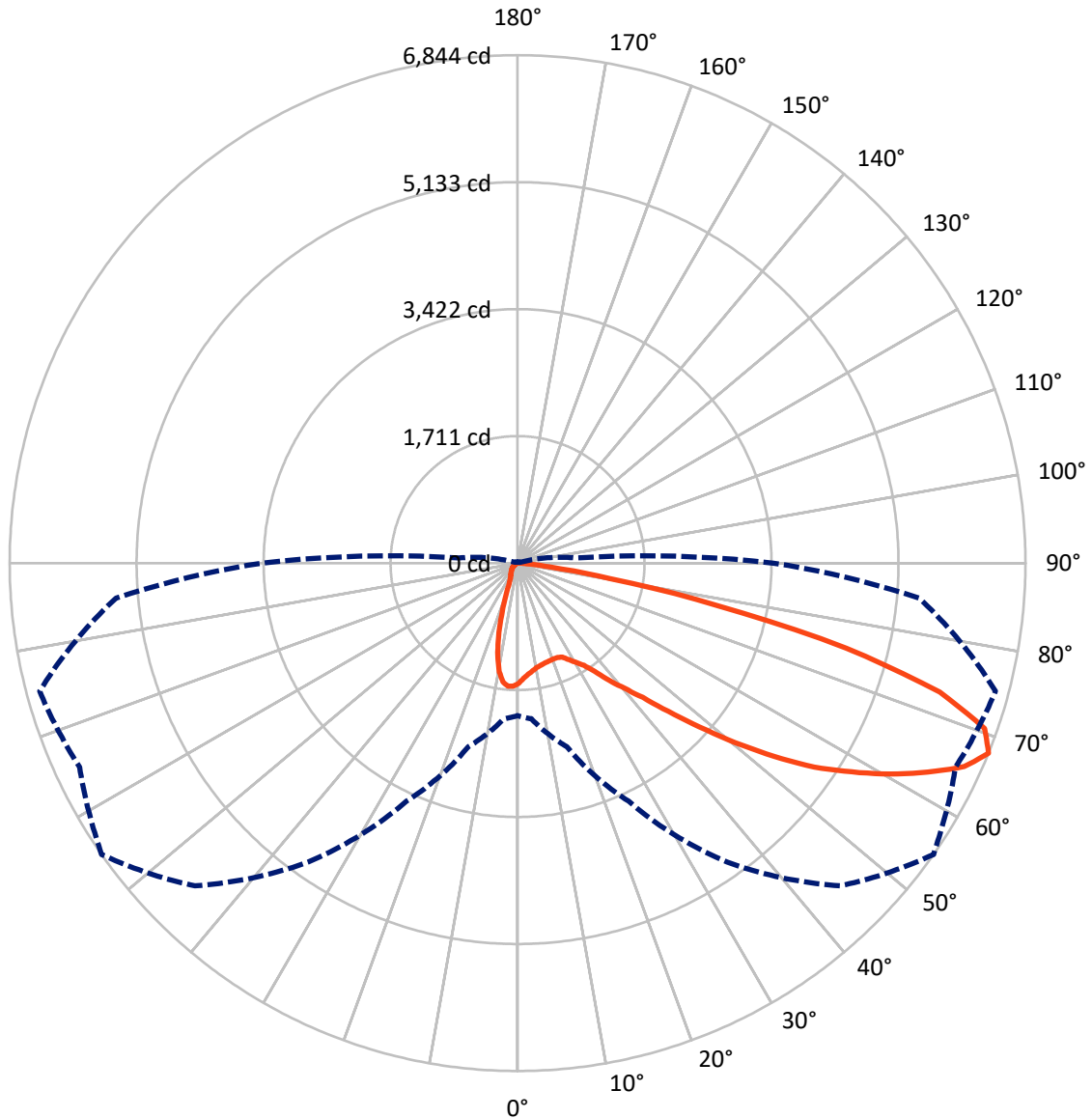
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 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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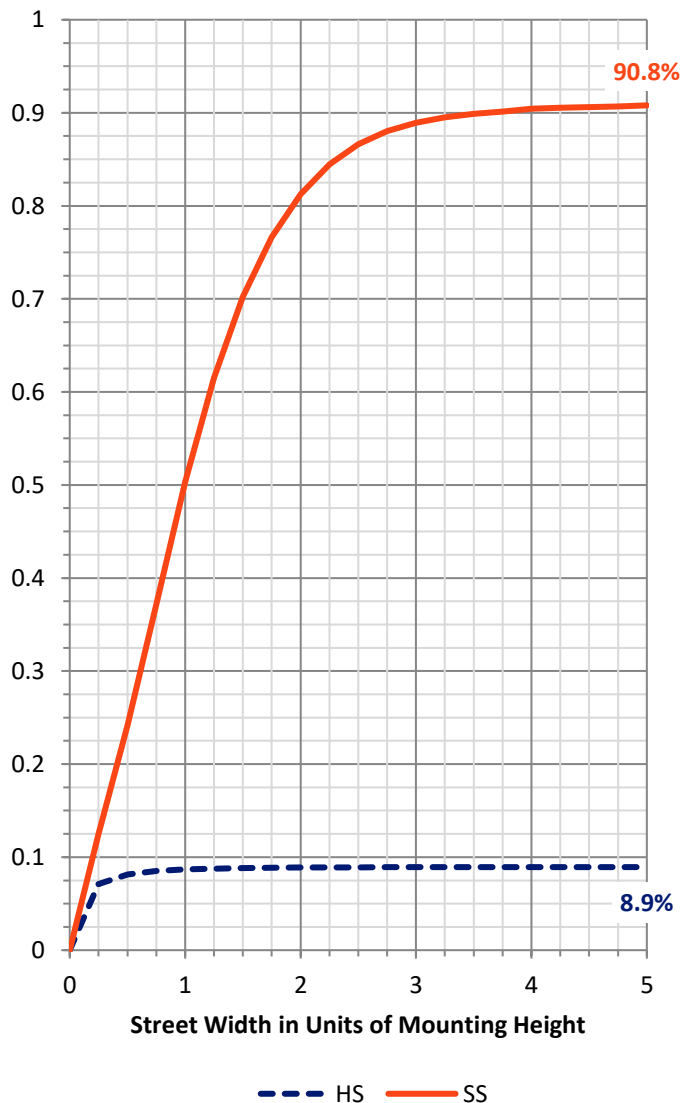
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.1	0.0	850.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	8612.4	0.0	8612.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	9462.5	0.0	9462.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.5
10°-20°	324.0	3.4
20°-30°	519.9	5.5
30°-40°	901.7	9.5
40°-50°	1503.5	15.9
50°-60°	2198.5	23.2
60°-70°	2563.5	27.1
70°-80°	1244.1	13.1
80°-90°	65.0	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°	9462.5	100.0
0°-180°	9462.5	100.0



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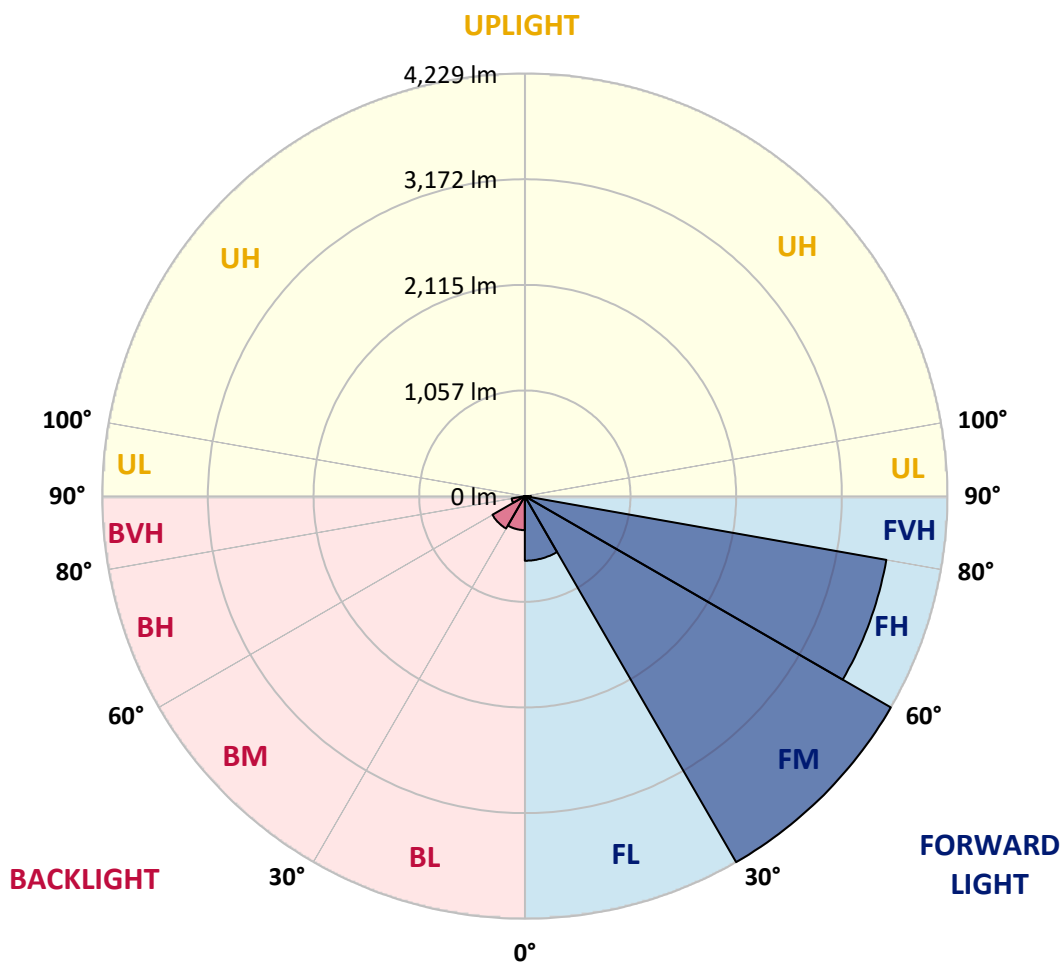
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.4	6.8			
FM (30°-60°)	4229.4	44.7			
FH (60°-80°)	3673.5	38.8			G2/5000
FVH (80°-90°)	63.1	0.7			G1/100
BL (0°-30°)	339.8	3.6	B1/500		
BM (30°-60°)	374.3	4.0	B1/1000		
BH (60°-80°)	134.1	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1496.9	1506.5	1518.7	1523.1	1537.9	1558.8	1552.7	1548.4	1571.9	1604.2	1614.6
5°	1403.6	1404.5	1423.7	1437.6	1462.9	1483.0	1504.8	1503.0	1545.7	1600.7	1635.5
7.5°	1312.1	1313.8	1333.9	1355.7	1392.3	1431.5	1464.7	1462.9	1531.8	1605.0	1671.3
10°	1191.8	1200.5	1224.9	1263.3	1320.8	1382.7	1428.9	1433.3	1516.1	1621.6	1720.1
12.5°	1095.0	1099.4	1126.4	1176.1	1244.1	1325.2	1411.5	1408.9	1519.6	1652.1	1783.8
15°	1054.0	1051.4	1068.0	1104.6	1182.2	1284.2	1394.0	1400.2	1531.8	1687.0	1850.0
17.5°	1063.6	1061.0	1069.7	1082.8	1137.7	1250.2	1384.5	1394.9	1551.0	1723.6	1911.9
20°	1170.0	1151.7	1136.0	1122.0	1129.9	1222.3	1378.4	1389.7	1562.3	1751.5	1977.3
22.5°	1374.9	1352.2	1310.4	1232.8	1181.3	1224.0	1380.1	1394.9	1587.6	1796.8	2056.6
25°	1708.8	1687.0	1597.2	1438.5	1302.5	1286.8	1403.6	1419.3	1646.0	1865.7	2141.2
27.5°	2150.8	2102.0	1993.0	1765.4	1503.0	1387.1	1474.3	1491.7	1728.8	1918.9	2198.7
30°	2517.8	2506.5	2401.9	2122.9	1779.4	1534.4	1553.6	1563.2	1766.3	1951.1	2256.3
32.5°	2898.8	2875.3	2779.4	2508.2	2100.2	1744.5	1642.5	1646.9	1815.1	1999.1	2340.0
35°	3230.1	3208.3	3128.1	2864.8	2475.1	2027.0	1789.9	1780.3	1916.3	2104.6	2453.3
37.5°	3537.0	3534.4	3463.8	3195.2	2811.6	2319.9	2006.9	1999.1	2074.1	2220.5	2606.8
40°	3836.9	3829.9	3769.8	3524.8	3142.9	2612.0	2213.6	2193.5	2208.3	2382.7	2809.0
42.5°	4020.9	4035.7	4056.6	3901.4	3536.1	2954.6	2475.1	2462.9	2460.3	2636.4	3074.9
45°	4120.2	4146.4	4269.3	4255.4	3952.9	3380.9	2847.4	2816.0	2805.5	2985.1	3379.2
47.5°	4217.0	4228.4	4429.7	4514.3	4352.2	3825.6	3297.2	3253.7	3210.9	3410.6	3742.7
50°	4223.1	4241.4	4490.8	4696.5	4686.9	4263.2	3802.0	3763.7	3714.8	3928.4	4097.6
52.5°	4137.7	4174.3	4482.9	4811.6	4894.4	4649.4	4326.0	4294.6	4254.5	4414.1	4396.6
55°	3547.5	3609.4	4329.5	4822.1	5040.0	4980.7	4852.6	4809.0	4769.8	4883.1	4689.6
57.5°	3266.7	3301.6	3863.9	4814.2	5225.7	5287.6	5309.4	5289.4	5234.4	5375.7	4995.6
60°	3098.5	3149.0	3641.6	4727.0	5426.2	5634.6	5771.5	5731.4	5664.3	5858.7	5323.4
62.5°	2897.1	2933.7	3420.2	4476.0	5545.7	5987.7	6204.8	6168.2	6029.5	6304.2	5588.4
65°	2525.7	2580.6	3068.0	4081.0	5385.3	6246.6	6612.8	6600.6	6360.0	6640.7	5660.8
67.5°	2055.8	2105.5	2559.7	3539.6	4916.2	6149.9	6843.8	6805.5	6509.9	6666.0	5431.5
70°	1543.1	1570.2	1912.8	2704.4	4027.8	5632.9	6676.4	6668.6	6282.4	6291.1	4727.9
72.5°	828.2	903.2	1272.0	1809.9	2832.6	4562.3	5950.2	5918.8	5605.0	5152.5	3400.1
75°	289.4	311.2	677.4	1016.5	1538.8	3039.2	4575.3	4502.1	4191.7	3351.3	1852.6
77.5°	177.9	195.3	300.8	519.6	598.9	1319.1	2748.9	2653.8	2453.3	1449.0	632.9
80°	122.9	138.6	201.4	272.0	204.0	427.2	1265.0	1229.3	945.9	345.2	145.6
82.5°	68.9	82.8	152.6	133.4	82.0	110.7	438.5	406.3	252.0	93.3	48.8
85°	40.1	48.0	107.2	94.2	41.8	39.2	114.2	102.0	65.4	34.9	23.5
87.5°	20.9	27.0	78.5	62.8	25.3	13.9	26.2	25.3	16.6	12.2	15.7
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°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1633.8	1629.4	1652.1	1660.0	1658.2	1654.7	1663.4	1652.1	1651.2	1648.6	1646.0
5°	1663.4	1670.4	1688.7	1688.7	1664.3	1624.2	1599.8	1566.7	1538.8	1522.2	1519.6
7.5°	1707.9	1721.9	1734.1	1696.6	1612.9	1513.5	1408.0	1325.2	1252.8	1215.3	1211.8
10°	1770.7	1783.8	1774.2	1666.9	1487.3	1281.6	1109.8	937.2	850.9	803.8	803.8
12.5°	1845.7	1856.1	1797.7	1592.8	1280.7	982.5	753.3	571.9	485.6	429.8	426.3
15°	1926.7	1929.4	1794.2	1463.8	1025.3	660.0	432.4	317.3	280.7	272.9	271.1
17.5°	1997.4	1986.9	1757.6	1272.9	738.4	393.2	274.6	248.5	241.5	241.5	241.5
20°	2063.6	2028.7	1684.4	1050.5	473.4	267.7	236.3	229.3	229.3	230.2	230.2
22.5°	2136.8	2068.0	1579.7	803.8	304.3	229.3	221.4	218.0	217.1	219.7	218.8
25°	2223.2	2106.3	1429.8	555.4	235.4	213.6	210.1	206.6	206.6	206.6	206.6
27.5°	2271.1	2101.1	1258.9	350.5	205.8	197.9	194.4	190.9	188.3	187.4	188.3
30°	2313.0	2070.6	1035.7	245.0	185.7	177.0	174.4	170.0	164.8	163.0	163.0
32.5°	2367.9	2045.3	802.1	197.0	168.3	158.7	150.8	143.9	135.1	131.6	130.8
35°	2428.9	1999.1	587.6	173.5	152.6	140.4	128.2	116.8	105.5	102.0	101.1
37.5°	2504.8	1957.2	398.4	160.4	139.5	124.7	108.1	92.4	82.0	80.2	80.2
40°	2607.6	1922.4	275.5	149.1	127.3	109.9	89.8	73.2	66.3	64.5	64.5
42.5°	2748.0	1893.6	208.4	139.5	116.8	95.0	72.4	60.2	54.9	53.2	53.2
45°	2913.6	1849.1	176.1	130.8	106.4	80.2	60.2	50.6	48.0	48.0	48.0
47.5°	3103.7	1793.3	160.4	122.1	95.0	65.4	50.6	46.2	45.3	45.3	46.2
50°	3295.5	1727.1	149.1	111.6	82.0	55.8	46.2	43.6	43.6	44.5	44.5
52.5°	3425.4	1623.3	137.7	100.3	68.9	48.8	43.6	42.7	41.8	41.8	41.8
55°	3551.8	1532.7	122.1	88.1	57.5	45.3	41.8	41.0	41.0	40.1	40.1
57.5°	3683.5	1461.2	102.0	73.2	48.8	42.7	40.1	40.1	38.4	37.5	37.5
60°	3836.0	1398.4	78.5	57.5	42.7	40.1	37.5	36.6	34.9	33.1	33.1
62.5°	3880.5	1265.9	59.3	46.2	36.6	34.9	34.0	32.3	27.9	24.4	25.3
65°	3764.5	1057.5	47.1	36.6	29.6	29.6	27.0	22.7	18.3	15.7	15.7
67.5°	3444.6	789.9	38.4	28.8	23.5	22.7	19.2	16.6	11.3	9.6	9.6
70°	2838.7	522.2	31.4	22.7	19.2	15.7	13.1	12.2	8.7	7.0	7.0
72.5°	1989.5	283.3	26.2	18.3	13.9	10.5	8.7	7.8	6.1	5.2	4.4
75°	1050.5	109.0	20.9	13.9	8.7	7.0	5.2	5.2	4.4	3.5	3.5
77.5°	360.1	46.2	14.8	7.8	6.1	4.4	3.5	2.6	3.5	2.6	2.6
80°	85.4	27.0	9.6	5.2	3.5	2.6	2.6	1.7	1.7	1.7	1.7
82.5°	37.5	15.7	6.1	3.5	3.5	2.6	1.7	0.9	0.9	0.9	0.9
85°	25.3	9.6	4.4	3.5	2.6	1.7	0.9	0.9	0.0	0.0	0.0
87.5°	20.1	6.1	3.5	3.5	2.6	1.7	0.9	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)