

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: P672296

Luminaire Tested: **CCP-SA-2D-827-U-T3R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-827-U-T3R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

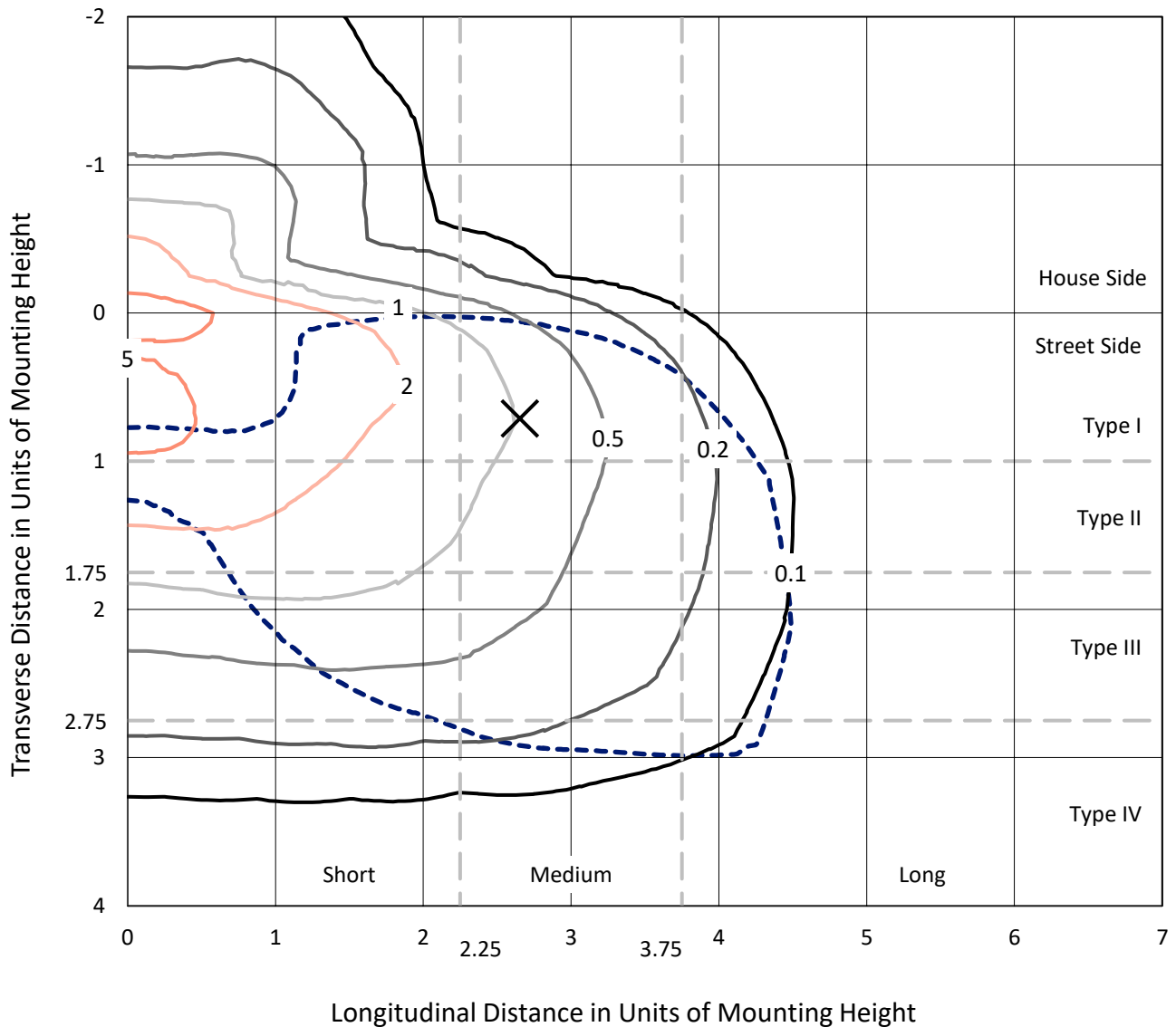
Lumens per Lamp: N/A
Luminaire Lumens: 8332.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

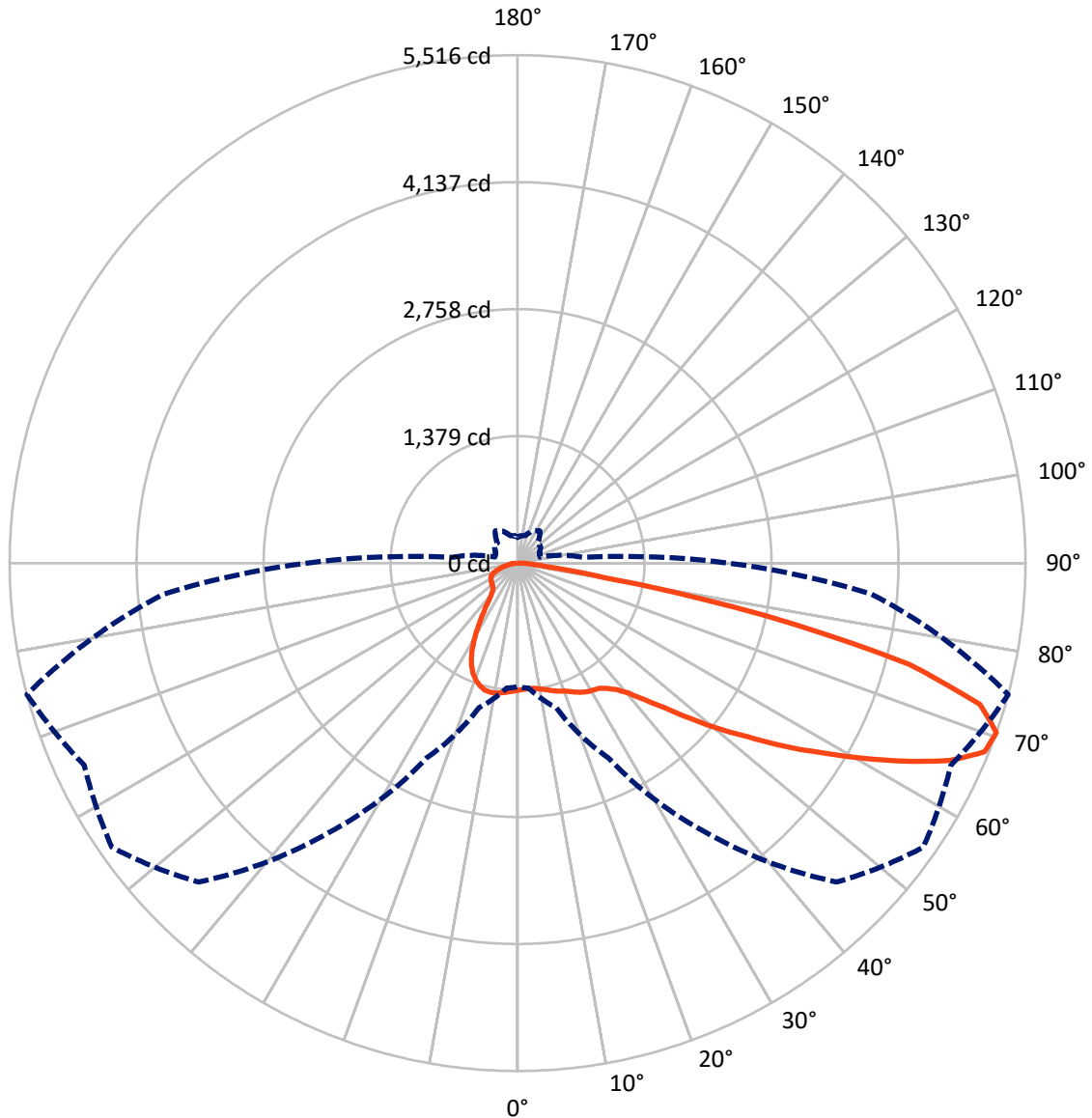
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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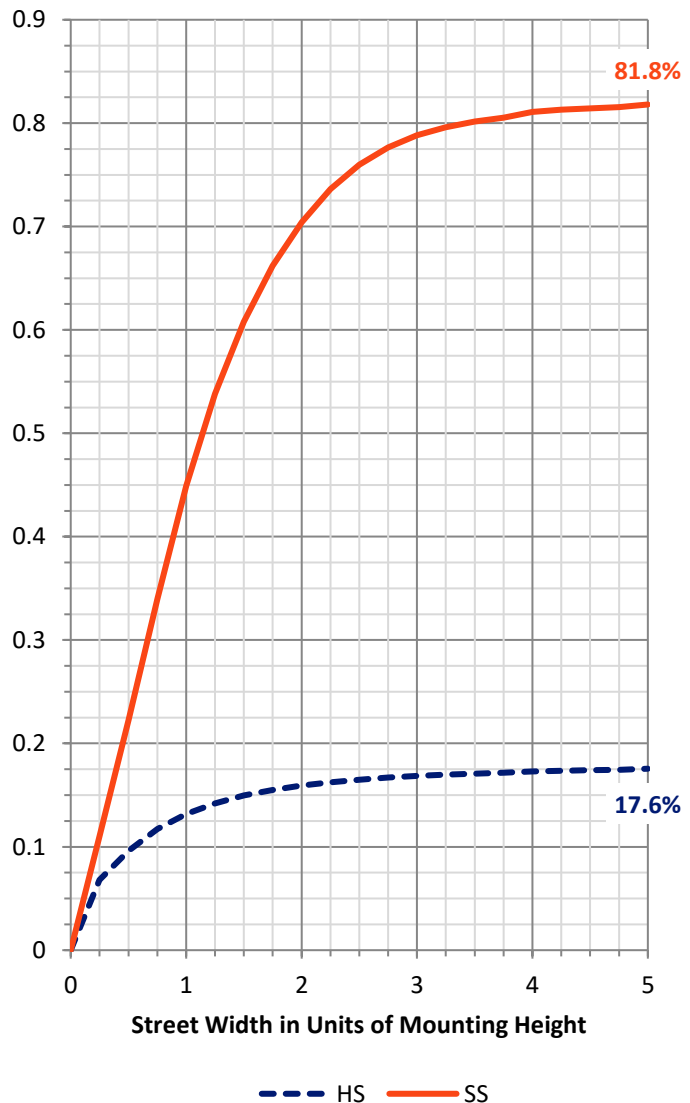
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.5	0.0	1482.5
	% Fixture	17.8	0.0	17.8
Street Side	Lumens	6850.2	0.0	6850.2
	% Fixture	82.2	0.0	82.2
Total	Lumens	8332.7	0.0	8332.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.5
10°-20°	330.9	4.0
20°-30°	557.5	6.7
30°-40°	846.8	10.2
40°-50°	1213.1	14.6
50°-60°	1608.4	19.3
60°-70°	2012.7	24.2
70°-80°	1469.8	17.6
80°-90°	169.5	2.0
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°	8332.7	100.0
0°-180°	8332.7	100.0



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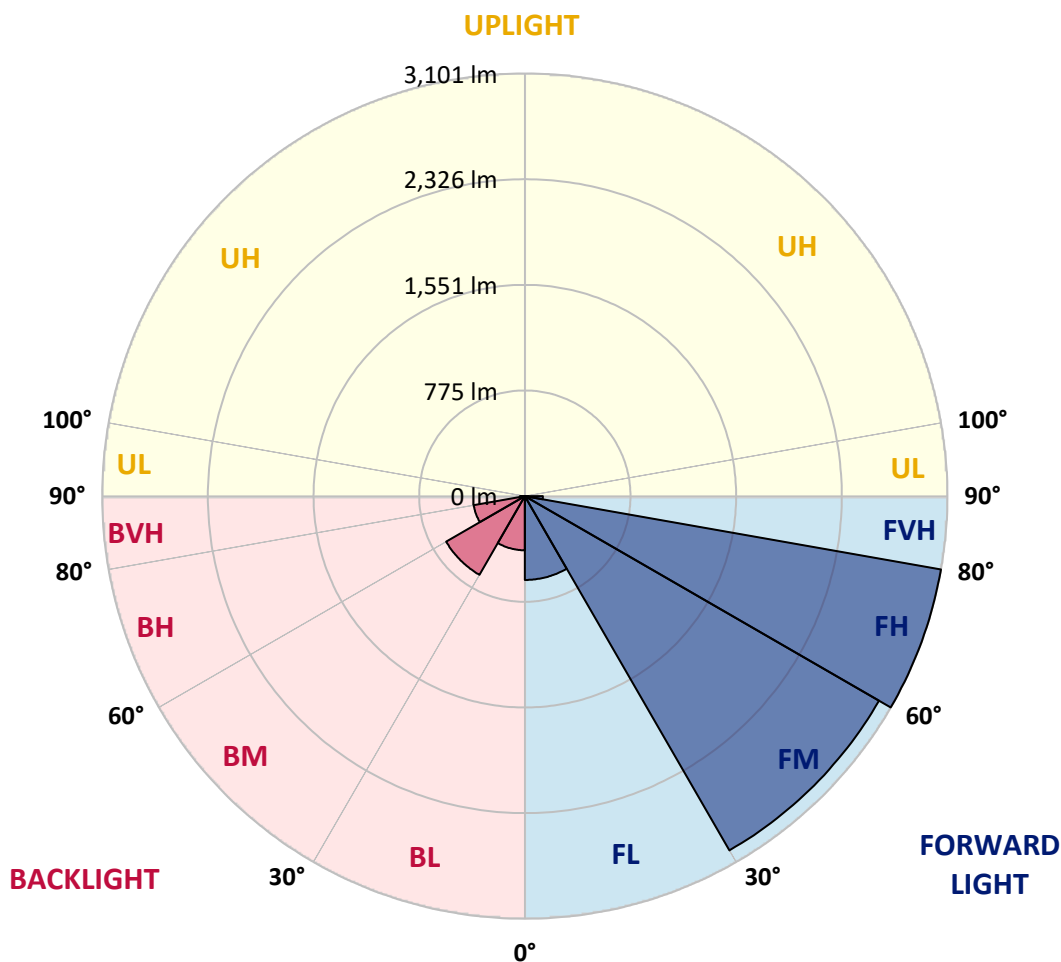
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.0	7.4			
FM (30°-60°)	3001.7	36.0			
FH (60°-80°)	3101.2	37.2			G2/5000
FVH (80°-90°)	132.3	1.6			G2/225
BL (0°-30°)	397.4	4.8	B1/500		
BM (30°-60°)	666.5	8.0	B1/1000		
BH (60°-80°)	381.3	4.6	B1/500		G1/500
BVH (80°-90°)	37.2	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1304.7	1311.9	1318.5	1325.1	1330.5	1344.9	1347.9	1363.5	1367.7	1371.3	1376.1
5°	1231.6	1237.0	1243.6	1254.3	1265.7	1291.5	1309.5	1343.7	1362.9	1368.9	1385.7
7.5°	1192.0	1193.8	1202.8	1211.8	1225.0	1250.2	1274.7	1328.1	1366.5	1373.1	1409.0
10°	1163.2	1165.6	1174.0	1186.6	1199.8	1223.2	1253.8	1317.3	1379.7	1389.9	1440.8
12.5°	1153.0	1151.8	1161.4	1169.8	1188.4	1217.8	1249.6	1317.9	1397.7	1412.0	1487.0
15°	1193.8	1186.0	1192.0	1189.0	1195.0	1223.8	1261.5	1331.1	1419.8	1437.8	1535.0
17.5°	1283.7	1277.1	1272.9	1247.2	1230.4	1246.6	1282.5	1349.7	1443.2	1462.4	1578.1
20°	1418.0	1399.5	1383.9	1340.7	1293.9	1288.5	1313.7	1368.3	1465.4	1484.0	1623.7
22.5°	1570.9	1555.9	1530.8	1455.2	1382.7	1346.7	1353.3	1402.4	1497.8	1518.2	1675.9
25°	1764.0	1763.4	1711.8	1609.9	1500.2	1427.6	1413.8	1457.0	1534.4	1554.1	1719.0
27.5°	1984.1	1969.1	1907.9	1776.6	1638.7	1527.8	1495.4	1512.8	1563.7	1584.1	1753.8
30°	2172.3	2174.1	2111.8	1968.5	1786.2	1625.5	1564.3	1552.9	1582.9	1603.3	1786.2
32.5°	2373.8	2363.6	2306.6	2159.1	1945.7	1730.4	1608.7	1581.7	1602.7	1621.9	1831.2
35°	2563.3	2551.9	2502.7	2343.8	2121.4	1846.1	1668.7	1626.7	1649.5	1670.5	1886.3
37.5°	2743.7	2745.5	2689.8	2538.1	2291.6	1982.9	1757.4	1694.5	1719.0	1742.4	1970.3
40°	2901.4	2892.4	2849.3	2712.6	2468.5	2122.0	1857.5	1786.8	1834.8	1856.3	2076.4
42.5°	2951.8	2951.2	2968.0	2884.0	2654.4	2287.4	1982.3	1930.7	1998.4	2030.8	2206.5
45°	2908.0	2921.2	3018.4	3016.0	2840.3	2477.5	2152.5	2105.8	2203.5	2240.1	2365.4
47.5°	2864.9	2884.6	3016.6	3091.5	3007.0	2686.8	2361.8	2327.0	2467.3	2520.1	2530.3
50°	2801.9	2820.5	2977.6	3102.3	3108.9	2898.4	2632.8	2589.0	2769.5	2823.5	2709.6
52.5°	2731.7	2746.1	2908.6	3094.5	3157.5	3063.9	2898.4	2885.8	3093.3	3137.1	2891.8
55°	2344.4	2405.6	2807.3	3077.7	3191.0	3190.4	3156.9	3198.2	3446.5	3511.8	3095.1
57.5°	2122.0	2154.3	2521.9	3068.1	3254.0	3307.4	3423.7	3512.4	3823.6	3882.4	3319.3
60°	2049.4	2078.2	2378.6	3056.7	3379.3	3490.2	3684.5	3828.4	4228.9	4300.9	3570.0
62.5°	1983.5	2018.2	2320.4	2966.2	3531.0	3779.8	3995.7	4170.2	4656.4	4741.6	3819.4
65°	1849.1	1873.7	2213.7	2890.0	3674.9	4193.0	4444.8	4546.7	5070.8	5166.7	3984.9
67.5°	1617.1	1640.5	1973.3	2715.0	3768.4	4622.9	4935.9	4936.5	5390.9	5469.5	4019.7
70°	1344.3	1362.3	1626.7	2333.6	3573.6	4898.7	5379.0	5191.3	5481.5	5515.7	3854.2
72.5°	961.1	976.7	1191.4	1725.0	2930.2	4675.0	5479.7	5180.5	5262.0	5251.2	3383.5
75°	592.4	622.4	729.7	1052.9	1821.0	3678.5	4931.7	4694.2	4418.4	4388.4	2547.7
77.5°	386.1	401.7	493.5	621.2	803.5	2111.8	3745.7	3519.6	2789.9	2755.1	1369.5
80°	232.0	257.8	323.2	390.3	364.0	807.7	2138.8	1748.4	985.7	974.9	420.9
82.5°	124.7	148.1	227.8	241.6	204.5	285.4	774.7	568.4	315.4	311.8	157.7
85°	98.9	110.3	163.7	152.9	115.7	144.5	302.2	236.8	161.9	158.3	59.4
87.5°	60.0	75.5	124.1	103.1	57.6	52.2	138.5	112.1	76.1	70.8	23.4
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°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1385.1	1388.1	1391.1	1385.1	1387.5	1384.5	1384.5	1384.5	1376.7	1374.3	1381.5
5°	1398.3	1402.4	1404.8	1386.3	1374.9	1358.1	1344.3	1323.3	1311.3	1303.5	1303.5
7.5°	1425.2	1430.0	1419.2	1377.9	1337.7	1292.7	1246.6	1208.2	1180.6	1168.6	1172.2
10°	1464.8	1466.6	1430.6	1354.5	1268.7	1185.4	1120.0	1069.1	1034.9	1017.5	1015.1
12.5°	1511.0	1503.2	1433.0	1302.9	1175.8	1063.7	983.9	918.0	874.2	857.4	849.0
15°	1556.5	1538.0	1424.0	1241.2	1070.3	935.4	833.4	771.1	744.1	736.3	733.3
17.5°	1597.3	1562.5	1394.1	1152.4	948.0	785.5	710.5	688.3	691.3	698.5	701.5
20°	1634.5	1581.1	1350.9	1046.9	795.1	668.5	650.0	670.3	687.1	697.9	699.7
22.5°	1675.3	1599.1	1290.9	918.6	669.7	614.6	636.8	660.2	676.9	687.7	689.5
25°	1706.4	1598.5	1206.4	766.3	590.6	600.2	626.6	647.6	660.2	667.9	667.3
27.5°	1726.2	1584.1	1095.5	641.0	559.4	590.0	615.2	629.0	636.2	642.2	641.6
30°	1732.2	1556.5	955.8	548.6	545.0	580.4	599.6	608.0	613.4	619.4	619.4
32.5°	1744.2	1514.0	801.7	497.1	534.2	570.8	582.2	588.8	584.6	569.6	566.6
35°	1757.4	1466.6	656.0	473.1	524.0	564.2	575.0	557.6	512.1	506.1	503.7
37.5°	1783.2	1422.8	532.4	456.3	521.6	567.8	576.8	507.3	468.9	450.3	447.3
40°	1827.0	1379.1	449.7	444.3	524.6	583.4	552.8	483.3	419.7	384.3	378.3
42.5°	1884.5	1325.7	402.9	438.3	533.0	608.6	544.4	449.1	379.5	355.6	352.0
45°	1951.1	1254.9	380.7	437.1	543.2	621.2	546.8	421.5	361.6	343.0	341.8
47.5°	2020.0	1185.4	371.1	435.9	555.8	615.8	513.9	413.1	354.4	349.0	352.6
50°	2094.4	1106.3	363.4	432.9	566.0	615.8	495.9	411.3	356.8	368.8	380.7
52.5°	2163.9	1039.7	354.4	423.9	570.2	605.0	490.5	417.9	360.4	357.4	361.0
55°	2248.5	1005.5	349.6	411.3	562.4	572.0	483.9	435.9	363.4	338.8	338.8
57.5°	2345.0	998.3	342.4	394.5	537.2	526.4	483.3	446.7	355.6	332.8	328.6
60°	2461.3	1013.9	333.4	373.5	506.7	491.1	479.1	446.7	343.0	322.6	324.4
62.5°	2555.5	1012.1	328.0	355.0	465.9	454.5	471.3	440.7	338.2	321.4	320.8
65°	2577.7	973.7	312.4	331.0	415.5	410.1	462.9	425.7	331.6	314.8	310.0
67.5°	2502.7	886.8	289.0	299.2	362.2	362.8	447.9	405.9	322.6	311.2	303.4
70°	2289.8	717.1	254.2	260.8	304.6	312.4	425.7	382.5	307.6	295.6	277.0
72.5°	1916.3	515.7	214.1	215.9	242.2	262.6	387.3	350.8	285.4	257.2	237.4
75°	1418.6	342.4	174.5	172.1	181.7	213.5	331.0	315.4	256.6	213.5	203.3
77.5°	750.1	202.7	134.3	134.9	128.9	163.7	262.6	274.0	227.8	179.9	169.7
80°	256.6	121.7	96.5	100.7	91.1	116.9	194.9	227.8	194.9	149.9	132.5
82.5°	117.5	74.3	69.0	72.0	65.4	79.1	133.7	172.7	155.3	109.1	88.1
85°	59.4	44.4	44.4	48.6	43.2	40.8	73.8	114.5	113.9	74.9	64.8
87.5°	24.6	21.6	20.4	23.4	20.4	15.6	21.0	41.4	60.0	45.0	28.8
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)