

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: P672230

Luminaire Tested: **CCP-SA-2D-727-U-T3R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672230
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-727-U-T3R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

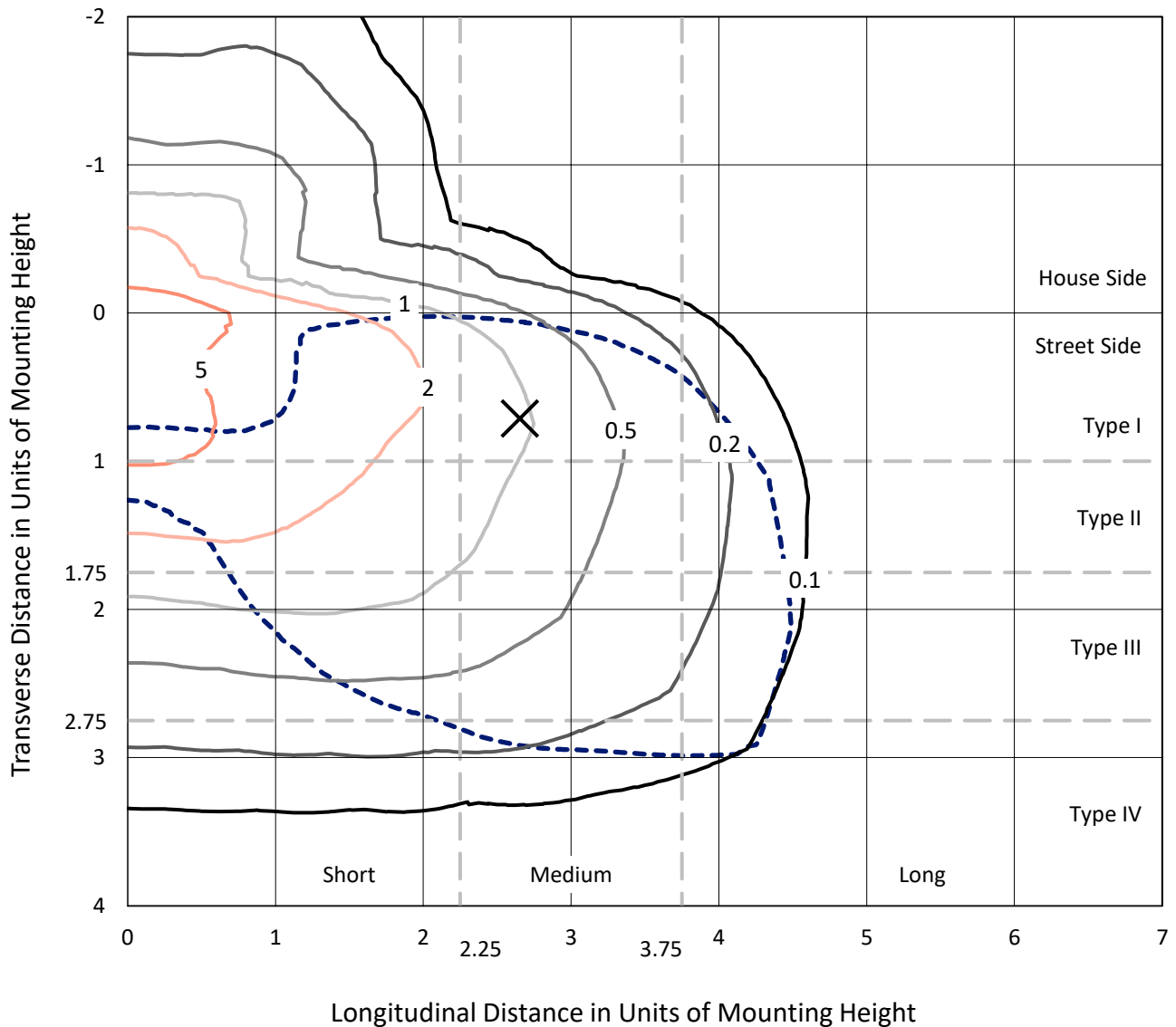
Lumens per Lamp: N/A
Luminaire Lumens: 9479.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

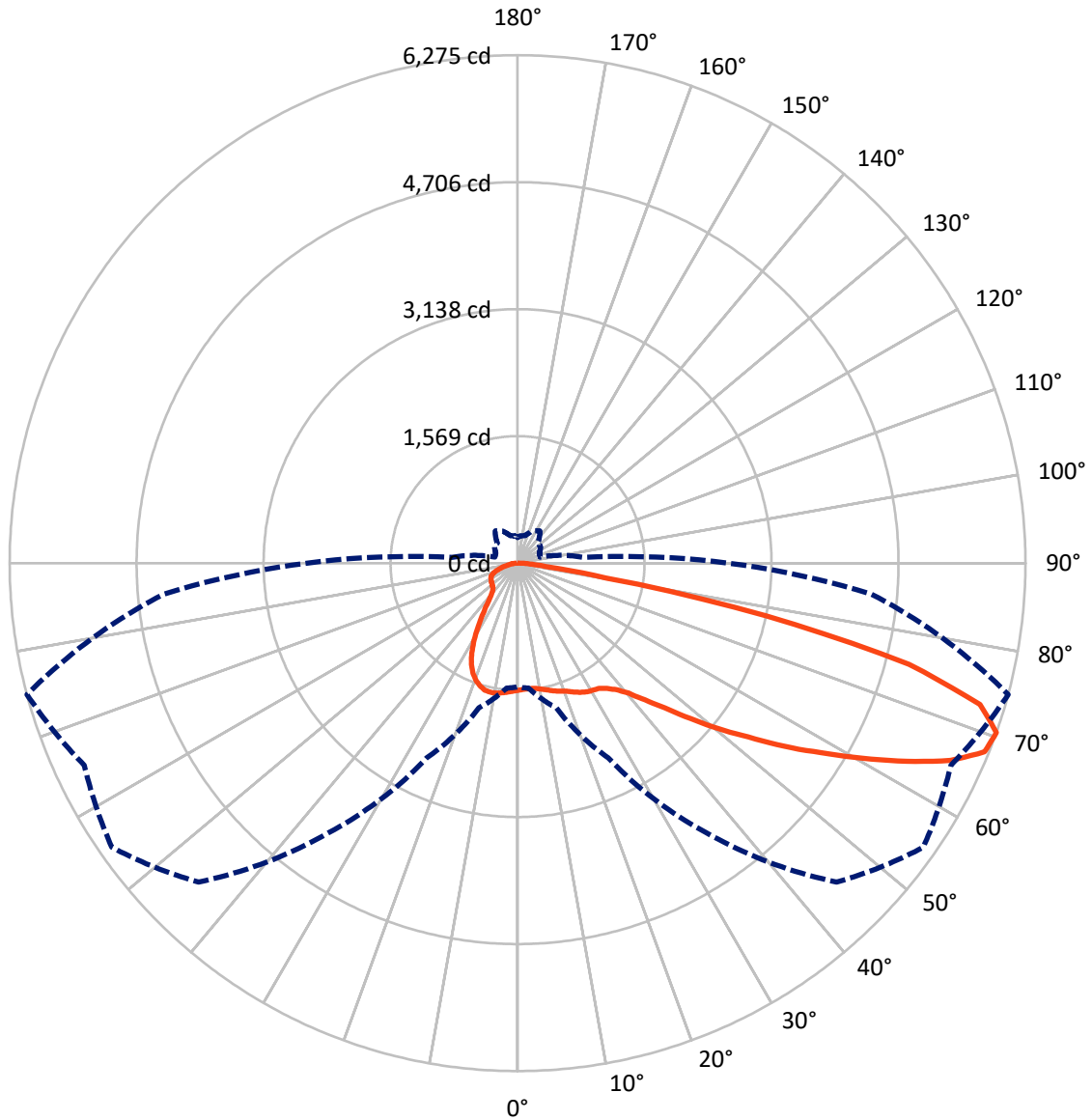
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 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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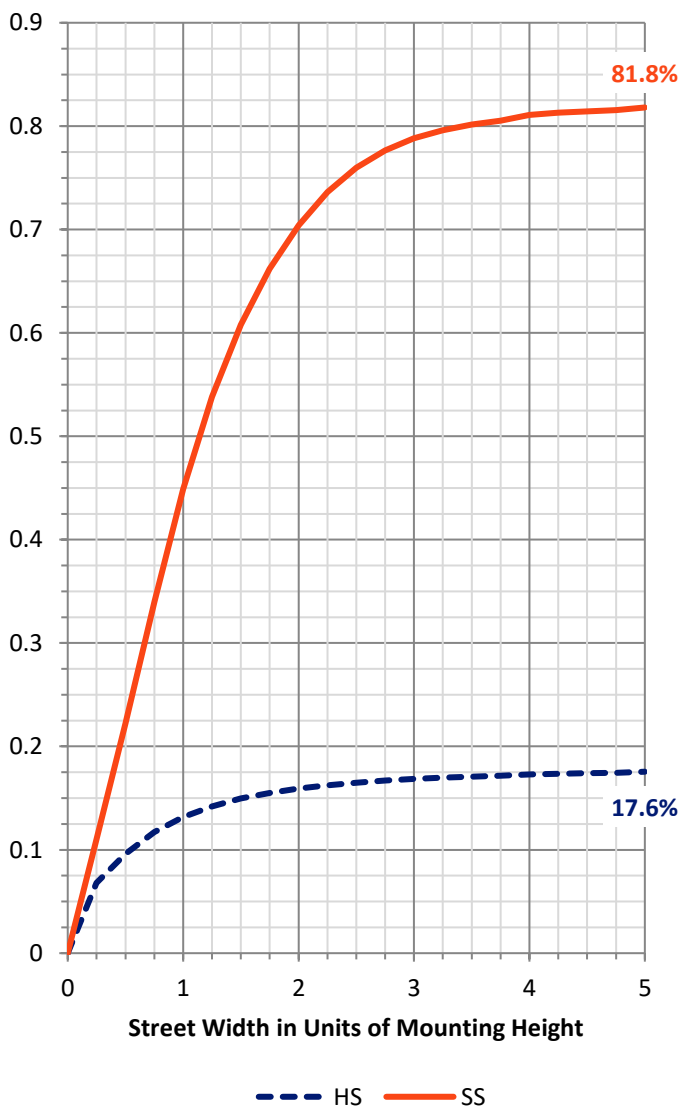
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.6	0.0	1686.6
	% Fixture	17.8	0.0	17.8
Street Side	Lumens	7793.2	0.0	7793.2
	% Fixture	82.2	0.0	82.2
Total	Lumens	9479.8	0.0	9479.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.5
10°-20°	376.5	4.0
20°-30°	634.3	6.7
30°-40°	963.3	10.2
40°-50°	1380.1	14.6
50°-60°	1829.8	19.3
60°-70°	2289.8	24.2
70°-80°	1672.1	17.6
80°-90°	192.8	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°	9479.8	100.0
0°-180°	9479.8	100.0



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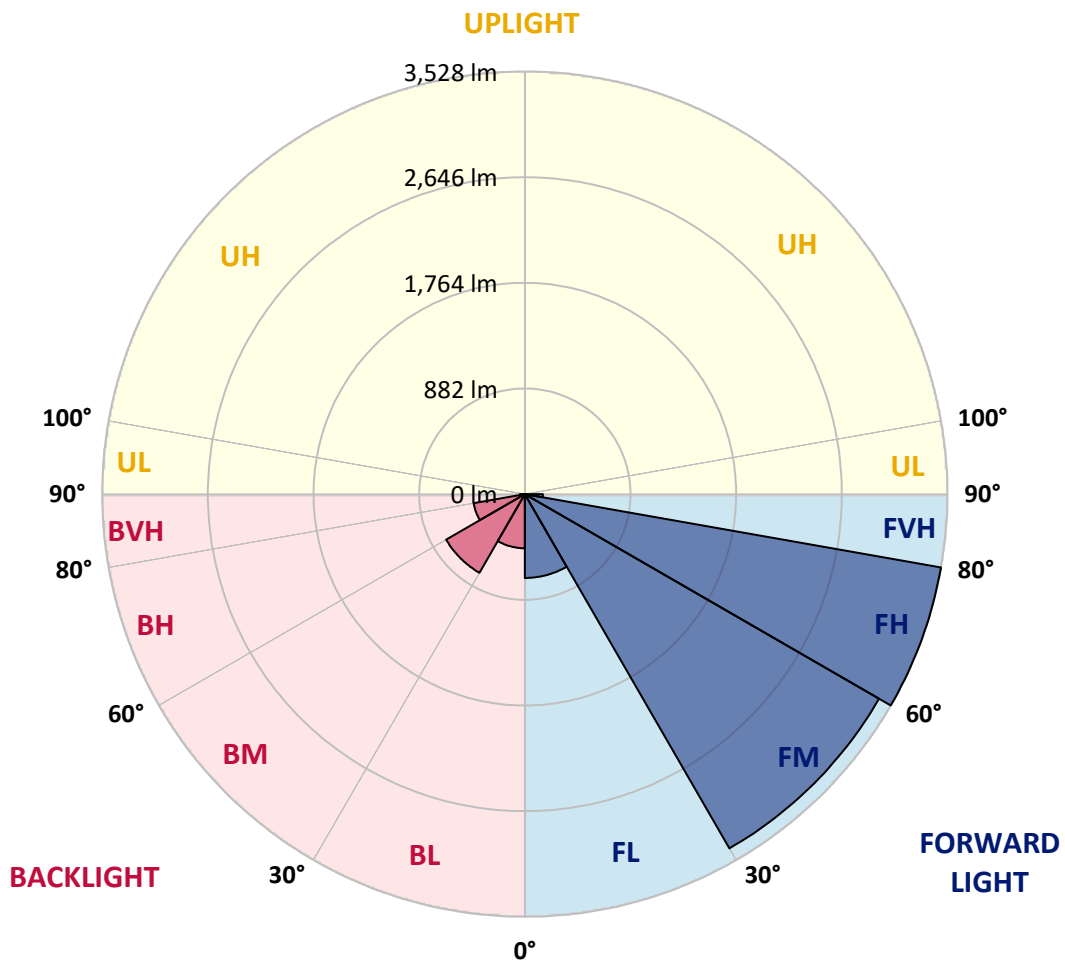
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.7	7.4			
FM (30°-60°)	3415.0	36.0			
FH (60°-80°)	3528.1	37.2			G2/5000
FVH (80°-90°)	150.5	1.6			G2/225
BL (0°-30°)	452.1	4.8	B1/500		
BM (30°-60°)	758.3	8.0	B1/1000		
BH (60°-80°)	433.8	4.6	B1/500		G1/500
BVH (80°-90°)	42.4	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°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1484.3	1492.5	1500.0	1507.5	1513.7	1530.0	1533.4	1551.2	1556.0	1560.1	1565.5
5°	1401.1	1407.3	1414.8	1427.0	1440.0	1469.3	1489.8	1528.7	1550.5	1557.3	1576.4
7.5°	1356.1	1358.1	1368.4	1378.6	1393.6	1422.3	1450.2	1510.9	1554.6	1562.1	1603.0
10°	1323.3	1326.1	1335.6	1350.0	1365.0	1391.6	1426.4	1498.7	1569.6	1581.2	1639.2
12.5°	1311.8	1310.4	1321.3	1330.9	1352.0	1385.4	1421.6	1499.3	1590.1	1606.4	1691.7
15°	1358.1	1349.3	1356.1	1352.7	1359.5	1392.2	1435.2	1514.3	1615.3	1635.8	1746.3
17.5°	1460.5	1453.0	1448.2	1418.8	1399.7	1418.2	1459.1	1535.5	1641.9	1663.7	1795.4
20°	1613.3	1592.1	1574.4	1525.3	1472.1	1465.9	1494.6	1556.6	1667.1	1688.3	1847.2
22.5°	1787.2	1770.1	1741.5	1655.6	1573.0	1532.1	1539.6	1595.5	1704.0	1727.2	1906.6
25°	2006.9	2006.2	1947.5	1831.5	1706.7	1624.2	1608.5	1657.6	1745.6	1768.1	1955.7
27.5°	2257.2	2240.1	2170.6	2021.2	1864.3	1738.1	1701.3	1721.0	1779.0	1802.2	1995.3
30°	2471.4	2473.4	2402.5	2239.5	2032.1	1849.3	1779.7	1766.7	1800.8	1824.0	2032.1
32.5°	2700.6	2689.0	2624.2	2456.4	2213.5	1968.7	1830.2	1799.5	1823.4	1845.2	2083.3
35°	2916.1	2903.2	2847.2	2666.5	2413.4	2100.3	1898.4	1850.6	1876.6	1900.4	2146.0
37.5°	3121.5	3123.5	3060.1	2887.5	2607.1	2255.8	1999.3	1927.7	1955.7	1982.3	2241.5
40°	3300.9	3290.6	3241.5	3086.0	2808.4	2414.1	2113.3	2032.8	2087.3	2111.9	2362.2
42.5°	3358.2	3357.5	3376.6	3281.1	3019.8	2602.4	2255.2	2196.5	2273.6	2310.4	2510.3
45°	3308.4	3323.4	3433.9	3431.2	3231.3	2818.6	2448.9	2395.7	2506.9	2548.5	2691.0
47.5°	3259.3	3281.8	3431.8	3517.1	3420.9	3056.7	2686.9	2647.4	2807.0	2867.0	2878.6
50°	3187.6	3208.8	3387.5	3529.4	3536.9	3297.5	2995.3	2945.5	3150.8	3212.2	3082.6
52.5°	3107.8	3124.2	3309.1	3520.5	3592.1	3485.7	3297.5	3283.1	3519.2	3568.9	3290.0
55°	2667.2	2736.7	3193.8	3501.4	3630.3	3629.7	3591.5	3638.5	3920.9	3995.3	3521.2
57.5°	2414.1	2450.9	2869.1	3490.5	3702.0	3762.7	3895.0	3996.0	4350.0	4416.8	3776.3
60°	2331.5	2364.3	2706.0	3477.5	3844.5	3970.7	4191.7	4355.5	4811.1	4893.0	4061.5
62.5°	2256.5	2296.1	2639.9	3374.5	4017.1	4300.2	4545.8	4744.3	5297.5	5394.4	4345.2
65°	2103.7	2131.7	2518.5	3287.9	4180.8	4770.2	5056.7	5172.7	5768.8	5878.0	4533.5
67.5°	1839.7	1866.3	2244.9	3088.7	4287.2	5259.3	5615.4	5616.0	6133.1	6222.5	4573.1
70°	1529.4	1549.8	1850.6	2654.9	4065.5	5573.1	6119.5	5906.0	6236.1	6275.0	4384.8
72.5°	1093.5	1111.2	1355.4	1962.5	3333.6	5318.6	6234.1	5893.7	5986.4	5974.2	3849.3
75°	674.0	708.1	830.2	1197.8	2071.7	4184.9	5610.6	5340.5	5026.7	4992.6	2898.4
77.5°	439.3	457.0	561.4	706.7	914.1	2402.5	4261.3	4004.2	3174.0	3134.4	1558.0
80°	264.0	293.3	367.7	444.1	414.1	918.8	2433.2	1989.1	1121.4	1109.2	478.9
82.5°	141.9	168.5	259.2	274.9	232.6	324.7	881.3	646.7	358.8	354.7	179.4
85°	112.6	125.5	186.2	173.9	131.7	164.4	343.8	269.4	184.2	180.1	67.5
87.5°	68.2	85.9	141.2	117.3	65.5	59.3	157.6	127.6	86.6	80.5	26.6
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°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1575.7	1579.2	1582.6	1575.7	1578.5	1575.1	1575.1	1575.1	1566.2	1563.5	1571.6
5°	1590.7	1595.5	1598.3	1577.1	1564.1	1545.0	1529.4	1505.5	1491.8	1483.0	1483.0
7.5°	1621.4	1626.9	1614.6	1567.6	1521.9	1470.7	1418.2	1374.5	1343.1	1329.5	1333.6
10°	1666.5	1668.5	1627.6	1541.0	1443.4	1348.6	1274.2	1216.3	1177.4	1157.6	1154.9
12.5°	1719.0	1710.1	1630.3	1482.3	1337.7	1210.1	1119.4	1044.4	994.6	975.5	965.9
15°	1770.8	1749.7	1620.1	1412.0	1217.6	1064.1	948.2	877.2	846.5	837.7	834.3
17.5°	1817.2	1777.7	1586.0	1311.1	1078.5	893.6	808.3	783.1	786.5	794.7	798.1
20°	1859.5	1798.8	1536.9	1191.0	904.5	760.6	739.4	762.6	781.7	794.0	796.1
22.5°	1905.9	1819.3	1468.6	1045.0	761.9	699.2	724.4	751.0	770.1	782.4	784.5
25°	1941.4	1818.6	1372.5	871.8	671.9	682.8	712.8	736.7	751.0	759.9	759.2
27.5°	1963.9	1802.2	1246.3	729.2	636.4	671.2	699.9	715.6	723.7	730.6	729.9
30°	1970.7	1770.8	1087.3	624.2	620.1	660.3	682.1	691.7	697.8	704.6	704.6
32.5°	1984.3	1722.4	912.0	565.5	607.8	649.4	662.4	669.9	665.1	648.0	644.6
35°	1999.3	1668.5	746.3	538.2	596.2	641.9	654.2	634.4	582.5	575.7	573.0
37.5°	2028.7	1618.7	605.7	519.1	593.5	646.0	656.2	577.1	533.4	512.3	508.9
40°	2078.5	1568.9	511.6	505.5	596.9	663.7	628.9	549.8	477.5	437.3	430.4
42.5°	2144.0	1508.2	458.4	498.6	606.4	692.4	619.4	510.9	431.8	404.5	400.4
45°	2219.7	1427.7	433.2	497.3	618.0	706.7	622.1	479.5	411.3	390.2	388.8
47.5°	2298.1	1348.6	422.2	495.9	632.3	700.6	584.6	470.0	403.1	397.0	401.1
50°	2382.7	1258.5	413.4	492.5	643.9	700.6	564.1	467.9	405.9	419.5	433.2
52.5°	2461.8	1182.8	403.1	482.3	648.7	688.3	558.0	475.5	410.0	406.6	410.6
55°	2558.0	1143.9	397.7	467.9	639.8	650.8	550.5	495.9	413.4	385.4	385.4
57.5°	2667.8	1135.8	389.5	448.8	611.2	598.9	549.8	508.2	404.5	378.6	373.8
60°	2800.2	1153.5	379.3	425.0	576.4	558.7	545.0	508.2	390.2	367.0	369.0
62.5°	2907.3	1151.4	373.1	403.8	530.0	517.1	536.2	501.4	384.7	365.6	364.9
65°	2932.5	1107.8	355.4	376.5	472.7	466.6	526.6	484.3	377.2	358.1	352.7
67.5°	2847.2	1008.9	328.8	340.4	412.0	412.7	509.6	461.8	367.0	354.0	345.2
70°	2605.1	815.8	289.2	296.7	346.5	355.4	484.3	435.2	349.9	336.3	315.1
72.5°	2180.1	586.6	243.5	245.6	275.6	298.8	440.7	399.1	324.7	292.6	270.1
75°	1613.9	389.5	198.5	195.8	206.7	242.8	376.5	358.8	292.0	242.8	231.2
77.5°	853.4	230.6	152.8	153.5	146.7	186.2	298.8	311.7	259.2	204.6	193.0
80°	292.0	138.5	109.8	114.6	103.7	133.0	221.7	259.2	221.7	170.5	150.8
82.5°	133.7	84.6	78.4	81.9	74.4	90.0	152.1	196.5	176.7	124.1	100.3
85°	67.5	50.5	50.5	55.3	49.1	46.4	83.9	130.3	129.6	85.3	73.7
87.5°	28.0	24.6	23.2	26.6	23.2	17.7	23.9	47.1	68.2	51.2	32.7
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)