

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: LUMARK

Report Number: P380990

Luminaire Tested: **PRV-PA2A-730-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2A-730-U-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

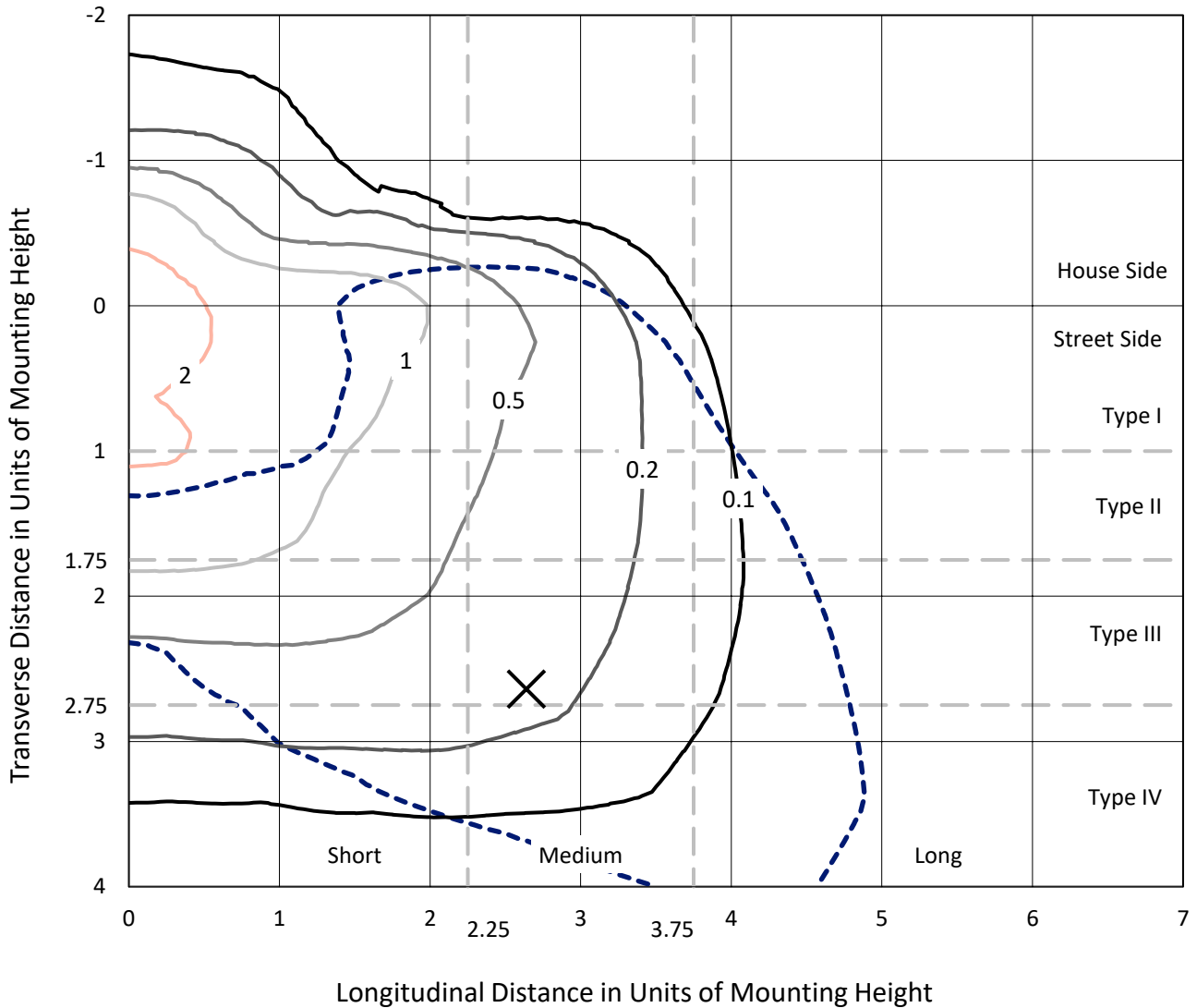
Lumens per Lamp: N/A  
Luminaire Lumens: 14170 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 112  
Input Voltage (V): NR  
Input Current (Ain): 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

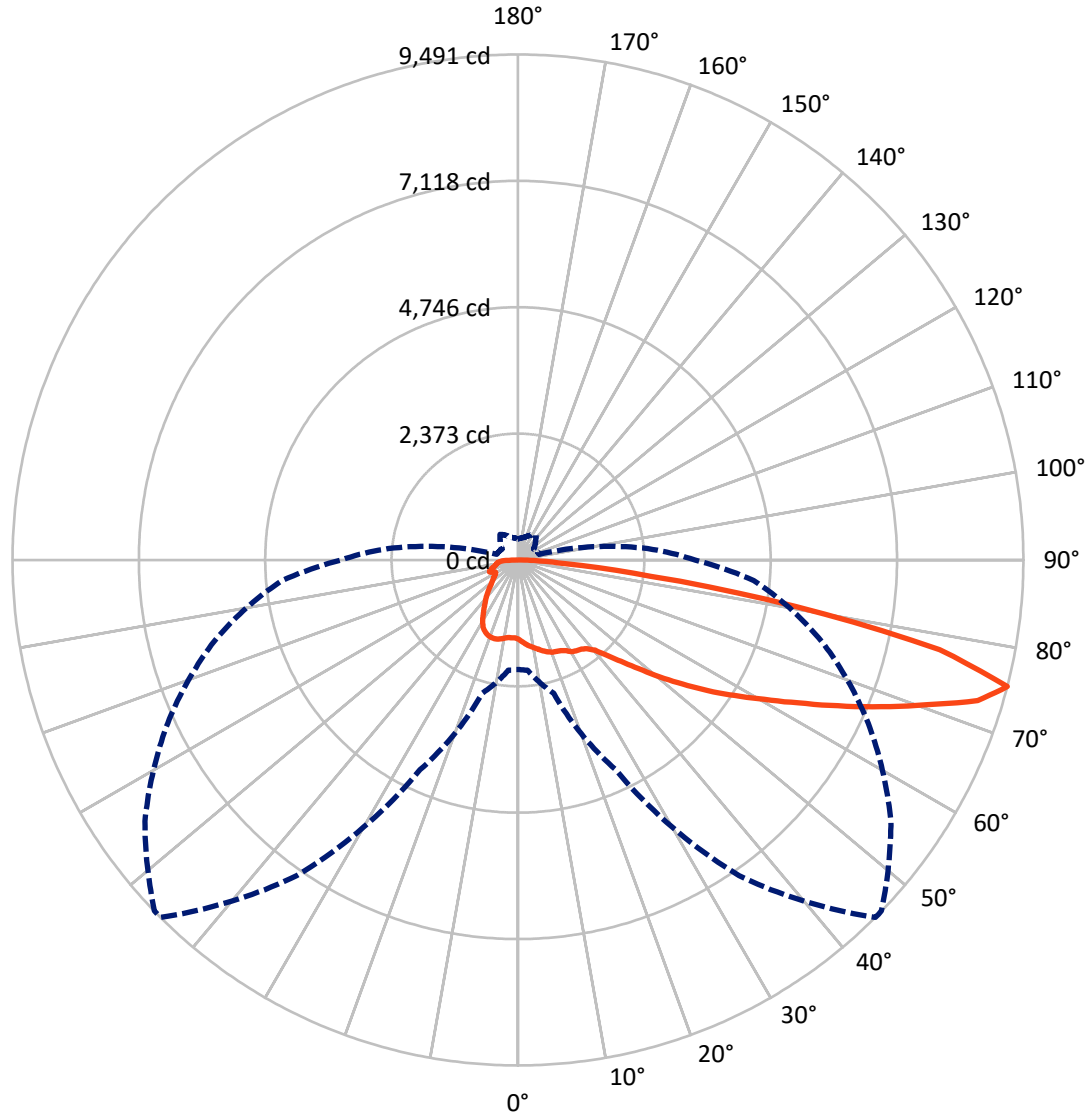
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: PRV-PA2A-730-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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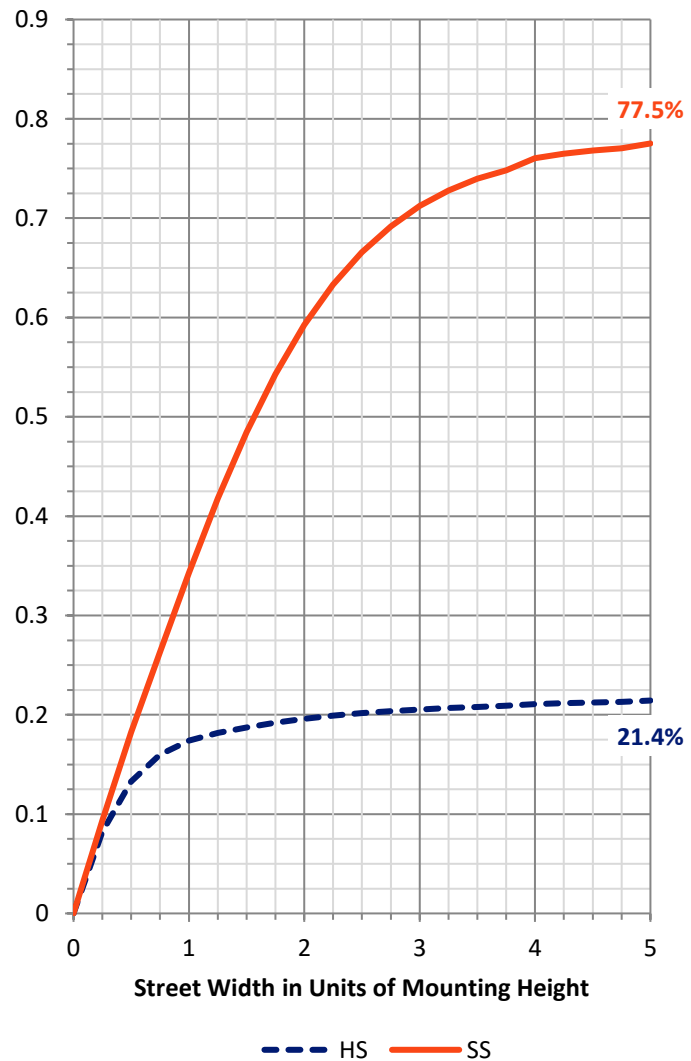
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3131.5	0.0	3131.5
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	11038.5	0.0	11038.5
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	14170.0	0.0	14170.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	1.0
10°-20°	468.4	3.3
20°-30°	798.5	5.6
30°-40°	1118.8	7.9
40°-50°	1643.7	11.6
50°-60°	2615.9	18.5
60°-70°	3721.1	26.3
70°-80°	3115.7	22.0
80°-90°	540.7	3.8
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°	14170.0	100.0
0°-180°	14170.0	100.0



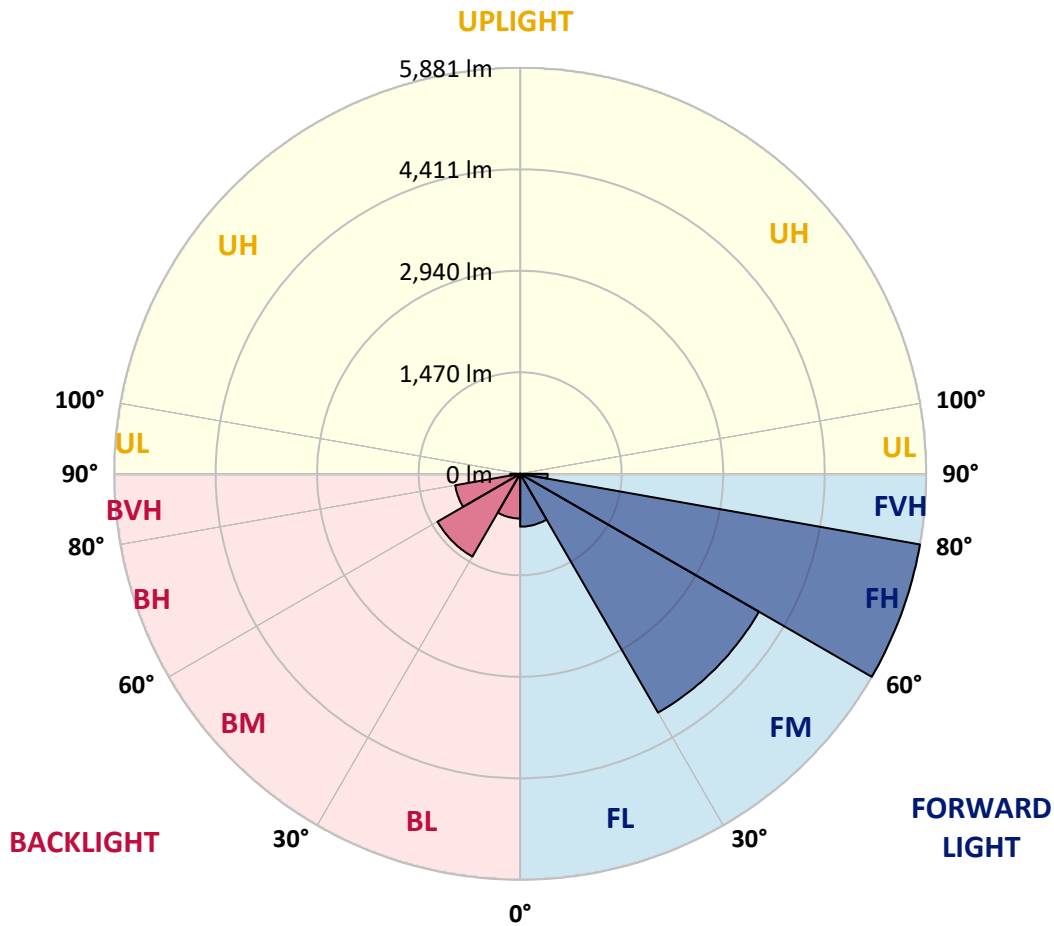
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 CATALOG NUMBER: PRV-PA2A-730-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.0	5.4			
FM (30°-60°)	3994.1	28.2			
FH (60°-80°)	5880.9	41.5			G3/7500
FVH (80°-90°)	397.5	2.8			G3/500
BL (0°-30°)	648.1	4.6	B2/1000		
BM (30°-60°)	1384.3	9.8	B2/2500		
BH (60°-80°)	955.9	6.7	B2/1000		G2/1000
BVH (80°-90°)	143.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2
2.5°	1573.4	1565.8	1562.0	1562.0	1546.9	1537.4	1535.5	1522.2	1510.9	1499.5	1490.1
5°	1664.2	1658.6	1647.2	1637.7	1616.9	1590.4	1586.6	1558.2	1529.8	1503.3	1480.6
7.5°	1747.5	1736.2	1722.9	1704.0	1669.9	1633.9	1628.3	1588.5	1548.7	1509.0	1478.7
10°	1817.6	1806.2	1787.3	1760.8	1717.3	1673.7	1668.0	1626.4	1584.7	1537.4	1493.8
12.5°	1883.9	1874.4	1846.0	1810.0	1758.9	1719.1	1713.5	1677.5	1633.9	1580.9	1524.1
15°	1940.7	1931.2	1900.9	1859.3	1800.6	1770.3	1762.7	1728.6	1685.1	1628.3	1569.6
17.5°	1969.1	1969.1	1936.9	1891.4	1836.5	1813.8	1808.1	1766.5	1726.7	1671.8	1613.1
20°	1978.5	1982.3	1959.6	1904.7	1857.4	1847.9	1842.2	1808.1	1762.7	1709.7	1654.8
22.5°	1984.2	1991.8	1972.9	1910.4	1870.6	1864.9	1861.1	1838.4	1802.5	1751.3	1696.4
25°	2003.1	2003.1	1989.9	1919.8	1887.7	1885.8	1885.8	1872.5	1847.9	1804.3	1749.4
27.5°	2031.5	2029.7	2012.6	1940.7	1925.5	1931.2	1929.3	1927.4	1910.4	1866.8	1808.1
30°	2078.9	2078.9	2059.9	1982.3	1972.9	1997.5	1999.4	2003.1	1976.6	1908.5	1861.1
32.5°	2150.8	2143.3	2124.3	2024.0	2008.8	2031.5	2035.3	2033.4	2010.7	1946.3	1923.6
35°	2372.3	2355.3	2287.1	2116.7	2041.0	2054.3	2056.2	2065.6	2069.4	2018.3	2006.9
37.5°	2760.5	2737.8	2633.6	2336.4	2143.3	2111.1	2109.2	2133.8	2154.6	2109.2	2109.2
40°	3182.7	3163.8	3103.2	2715.0	2332.6	2226.6	2219.0	2241.7	2268.2	2236.0	2245.5
42.5°	3546.2	3561.4	3567.0	3116.4	2616.6	2442.4	2421.6	2389.4	2431.0	2402.6	2440.5
45°	3818.9	3811.3	3915.4	3527.3	2983.9	2713.1	2684.7	2597.7	2650.7	2648.8	2732.1
47.5°	4108.5	4095.3	4138.8	3913.5	3402.3	3044.5	3000.9	2872.2	2951.7	3006.6	3144.8
50°	4383.1	4386.9	4402.0	4218.3	3856.7	3447.8	3392.9	3220.6	3334.2	3449.7	3644.7
52.5°	4740.9	4714.4	4695.5	4574.3	4366.0	3868.1	3832.1	3635.2	3794.2	3930.6	4189.9
55°	5053.3	5036.3	5024.9	5019.2	4792.0	4331.9	4294.1	4089.6	4318.7	4415.3	4797.7
57.5°	5386.5	5377.1	5437.7	5534.2	5443.3	4803.4	4763.6	4566.7	4822.3	4890.5	5456.6
60°	5630.8	5636.5	5803.1	6049.2	5986.7	5314.6	5267.3	5093.1	5312.7	5373.3	6115.5
62.5°	5632.7	5689.5	6075.7	6516.9	6588.8	5903.4	5848.5	5659.2	5816.3	5816.3	6706.2
65°	5095.0	5159.3	6026.5	6632.3	7198.5	6603.9	6550.9	6253.7	6312.4	6232.9	7260.9
67.5°	4559.1	4634.9	5450.9	6641.8	7626.3	7353.7	7291.2	6848.2	6747.8	6547.1	7649.1
70°	4203.2	4256.2	4937.8	6518.7	7883.8	8137.5	8090.2	7412.4	7090.5	6810.3	7567.7
72.5°	3538.6	3519.7	4171.0	5933.7	8027.7	9027.4	8987.7	8025.8	7387.8	6685.4	6454.4
75°	2054.3	2077.0	2588.2	4347.1	7236.3	9491.3	9487.5	8550.3	7257.1	5905.3	4447.4
77.5°	592.6	609.7	850.1	1910.4	4576.2	8095.9	8355.3	7819.5	6134.4	4208.9	2306.1
80°	259.4	272.6	369.2	636.2	1971.0	5288.1	5515.3	5288.1	3699.6	1931.2	905.0
82.5°	153.4	162.8	240.5	393.8	944.8	2516.2	2823.0	2465.1	1596.1	819.8	374.9
85°	87.1	90.9	138.2	249.9	594.5	880.4	988.3	925.8	778.2	465.8	196.9
87.5°	39.8	41.7	68.2	117.4	333.2	297.3	308.6	409.0	450.6	284.0	98.5
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°	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2
2.5°	1486.3	1480.6	1469.2	1465.4	1459.8	1461.7	1463.5	1463.5	1465.4	1459.8	1459.8
5°	1471.1	1461.7	1450.3	1450.3	1450.3	1465.4	1478.7	1486.3	1490.1	1490.1	1486.3
7.5°	1465.4	1454.1	1440.8	1444.6	1448.4	1467.3	1491.9	1516.6	1524.1	1524.1	1520.3
10°	1476.8	1465.4	1456.0	1461.7	1471.1	1486.3	1505.2	1527.9	1546.9	1548.7	1546.9
12.5°	1503.3	1490.1	1480.6	1491.9	1503.3	1512.8	1522.2	1531.7	1556.3	1560.1	1560.1
15°	1546.9	1533.6	1522.2	1531.7	1535.5	1535.5	1535.5	1535.5	1560.1	1563.9	1563.9
17.5°	1590.4	1579.0	1567.7	1569.6	1558.2	1543.1	1537.4	1535.5	1548.7	1560.1	1562.0
20°	1632.1	1622.6	1611.2	1592.3	1563.9	1535.5	1526.0	1526.0	1533.6	1550.6	1550.6
22.5°	1677.5	1666.1	1647.2	1603.7	1556.3	1516.6	1507.1	1512.8	1522.2	1545.0	1543.1
25°	1728.6	1713.5	1681.3	1599.9	1531.7	1484.4	1486.3	1503.3	1520.3	1545.0	1545.0
27.5°	1785.4	1764.6	1700.2	1569.6	1476.8	1431.4	1448.4	1488.2	1512.8	1539.3	1543.1
30°	1847.9	1829.0	1715.4	1516.6	1387.8	1346.2	1387.8	1452.2	1490.1	1514.7	1520.3
32.5°	1923.6	1908.5	1728.6	1448.4	1272.3	1236.3	1296.9	1376.5	1437.0	1465.4	1471.1
35°	2018.3	2003.1	1745.7	1370.8	1164.4	1126.5	1181.4	1262.9	1342.4	1378.3	1389.7
37.5°	2141.4	2118.6	1760.8	1287.5	1073.5	1030.0	1056.5	1130.3	1202.3	1251.5	1264.7
40°	2298.5	2262.5	1774.1	1192.8	994.0	944.8	954.2	990.2	1031.9	1075.4	1092.5
42.5°	2520.0	2448.1	1775.9	1092.5	912.6	867.1	863.4	874.7	874.7	874.7	880.4
45°	2828.6	2692.3	1779.7	997.8	829.3	781.9	770.6	766.8	738.4	683.5	679.7
47.5°	3218.7	3012.3	1796.8	918.3	742.2	700.5	685.4	670.2	617.2	560.4	549.1
50°	3718.5	3383.4	1830.9	842.5	668.3	639.9	621.0	585.0	526.3	482.8	471.4
52.5°	4294.1	3824.5	1863.0	763.0	613.4	594.5	571.8	528.2	465.8	439.3	435.5
55°	4954.9	4316.8	1927.4	693.0	566.1	552.9	532.0	490.4	443.0	424.1	422.2
57.5°	5630.8	4867.8	2018.3	630.5	520.7	513.1	513.1	477.1	446.8	439.3	439.3
60°	6282.1	5341.1	1948.2	571.8	479.0	482.8	518.8	509.3	486.6	496.1	501.7
62.5°	6787.6	5619.4	1580.9	524.5	448.7	482.8	575.6	575.6	549.1	545.3	545.3
65°	7003.4	5615.6	1111.4	488.5	437.4	530.1	641.8	611.5	541.5	515.0	509.3
67.5°	6948.5	5369.5	766.8	463.9	433.6	579.4	672.1	586.9	507.4	484.7	467.7
70°	6465.7	4848.8	590.7	441.1	427.9	558.5	662.7	558.5	480.9	460.1	444.9
72.5°	5216.1	3888.9	490.4	418.4	405.2	516.9	630.5	532.0	460.1	437.4	422.2
75°	3326.6	2446.2	414.6	388.1	361.6	463.9	586.9	505.5	437.4	407.1	395.7
77.5°	1599.9	1054.6	361.6	352.2	325.7	429.8	543.4	471.4	407.1	382.5	374.9
80°	647.5	482.8	314.3	316.2	299.1	409.0	513.1	439.3	376.8	350.3	337.0
82.5°	337.0	280.2	265.1	272.6	272.6	390.0	490.4	412.7	350.3	338.9	295.4
85°	181.8	174.2	204.5	219.6	236.7	352.2	456.3	384.3	320.0	274.5	265.1
87.5°	89.0	113.6	115.5	132.5	164.7	282.1	384.3	321.9	267.0	221.5	217.7
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)