

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: P381118

Luminaire Tested: **PRV-PA2A-730-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-730-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14384 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

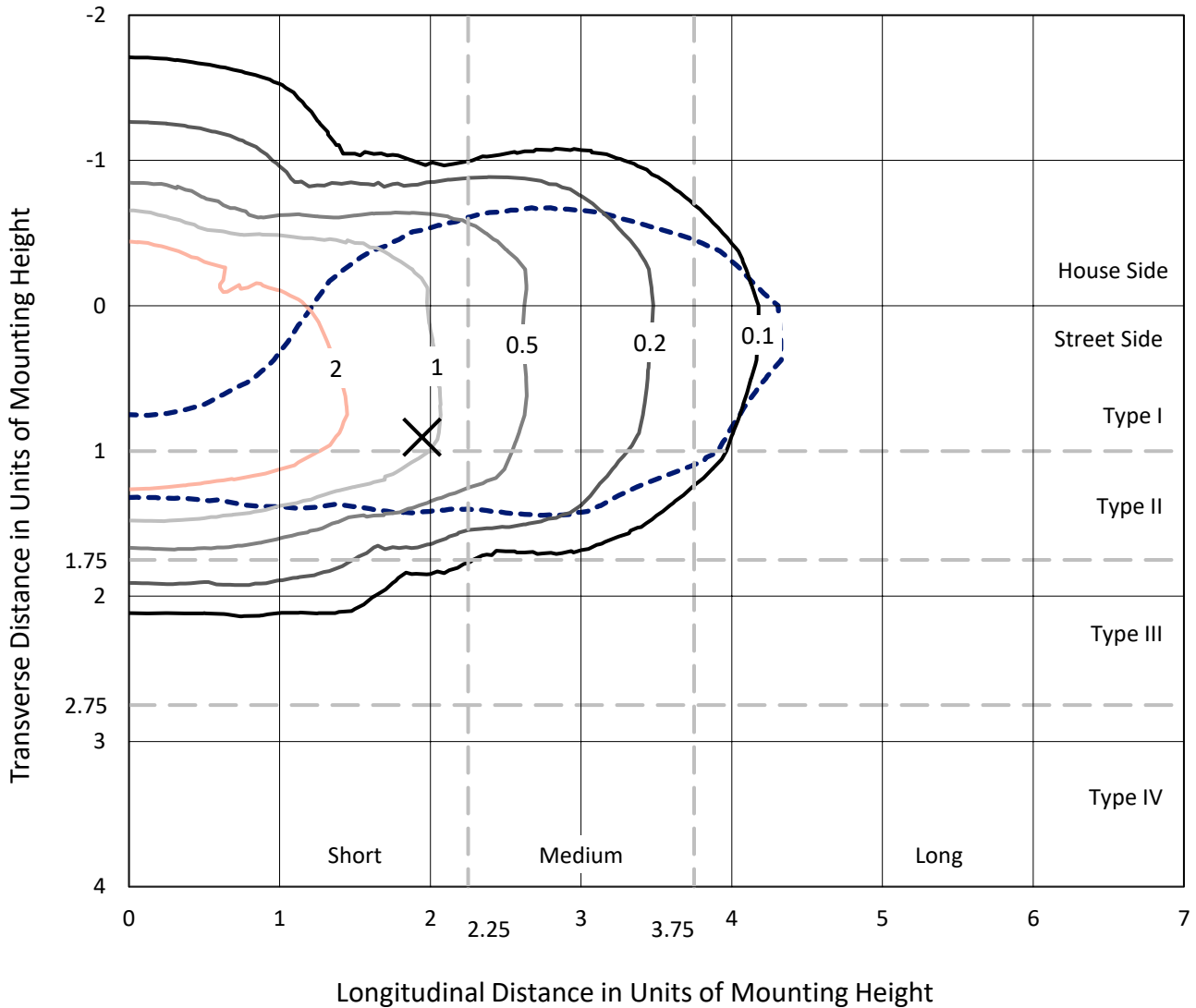
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

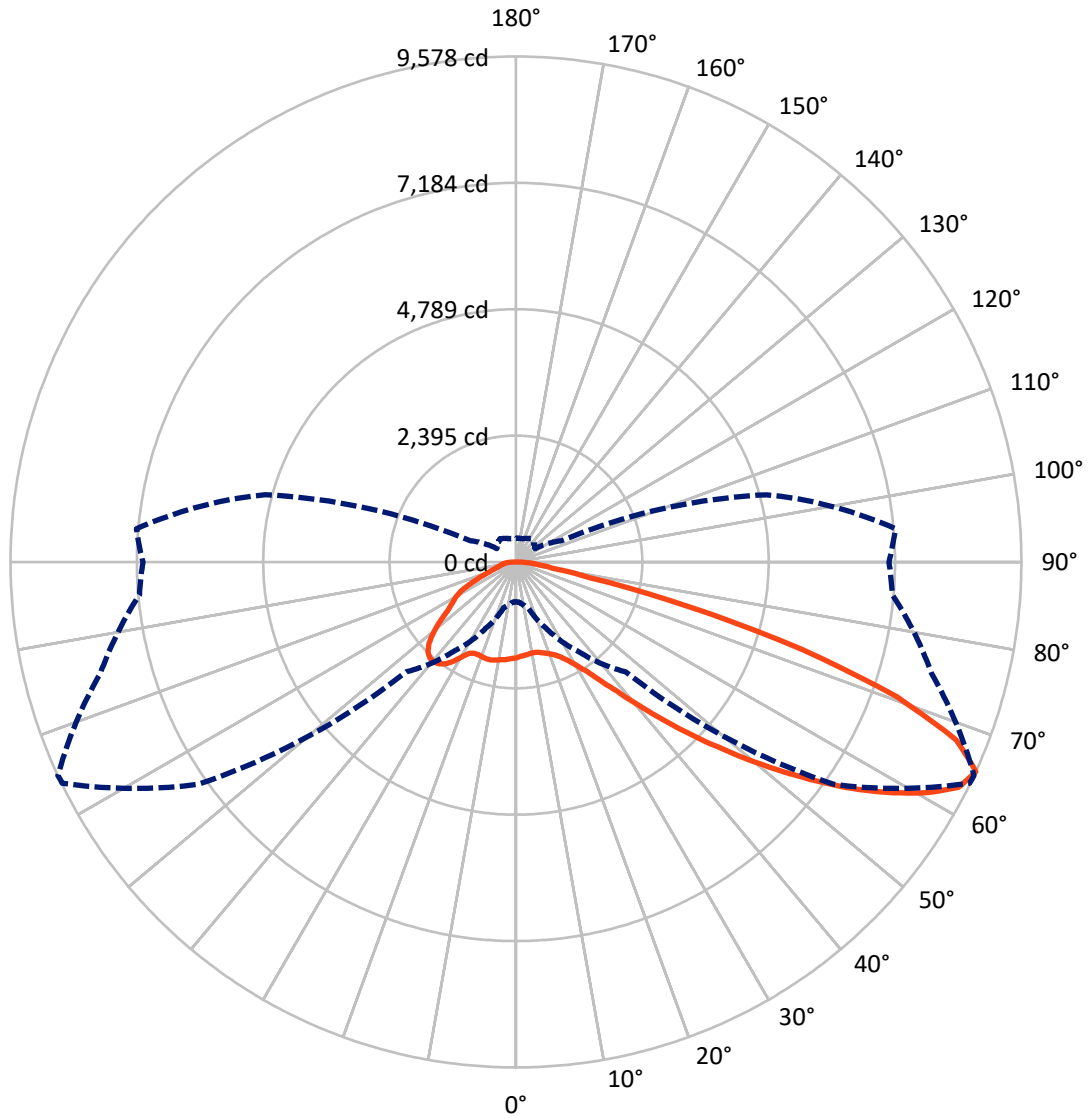
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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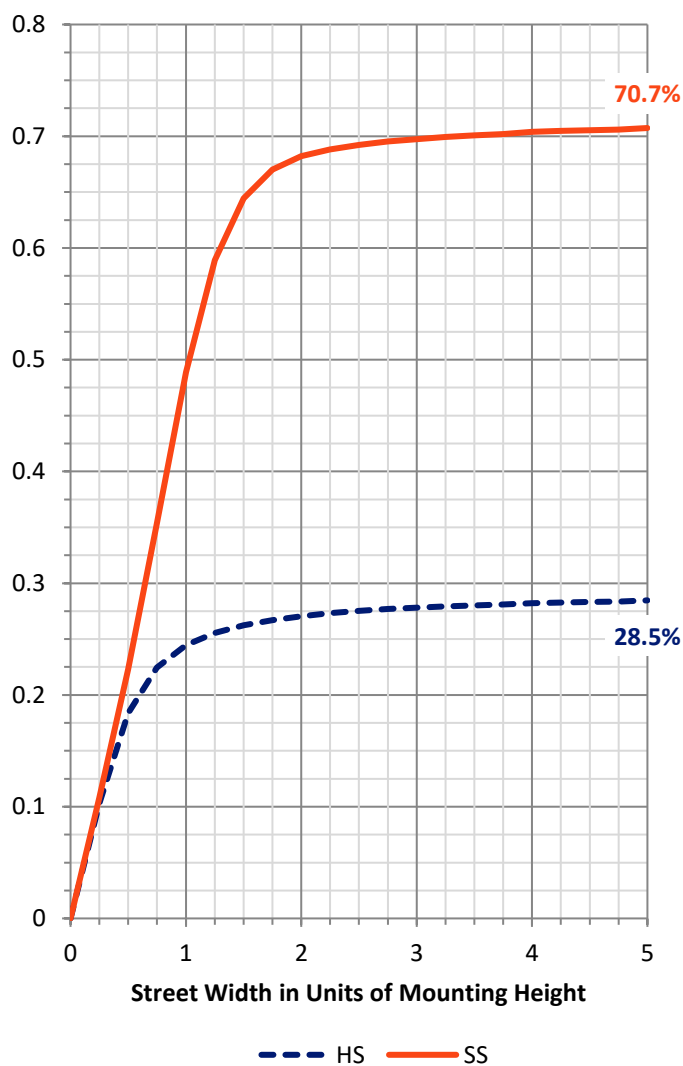
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4158.6	0.0	4158.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10225.4	0.0	10225.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	14384.0	0.0	14384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.2
10°-20°	517.0	3.6
20°-30°	918.3	6.4
30°-40°	1553.6	10.8
40°-50°	2704.5	18.8
50°-60°	3495.0	24.3
60°-70°	3058.4	21.3
70°-80°	1663.5	11.6
80°-90°	300.6	2.1
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°	14384.0	100.0
0°-180°	14384.0	100.0

Coefficient of Utilization



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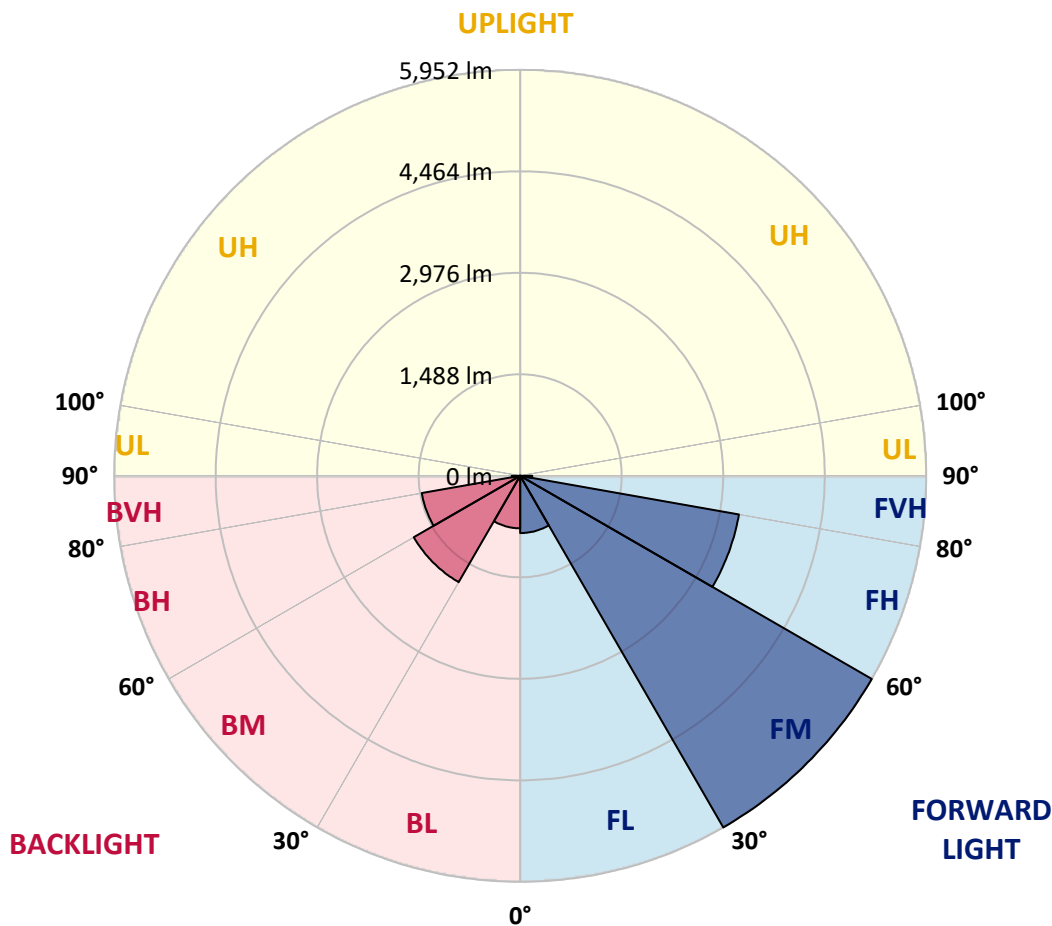
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.3	5.8			
FM (30°-60°)	5952.5	41.4			
FH (60°-80°)	3256.7	22.6			G2/5000
FVH (80°-90°)	176.9	1.2			G2/225
BL (0°-30°)	769.2	5.3	B2/1000		
BM (30°-60°)	1800.6	12.5	B2/2500		
BH (60°-80°)	1465.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	123.7	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6
2.5°	1785.4	1783.5	1779.7	1783.5	1785.4	1789.2	1787.3	1791.1	1789.2	1794.8	1804.3
5°	1739.9	1736.1	1734.3	1743.7	1749.4	1758.9	1762.7	1775.9	1774.0	1783.5	1798.6
7.5°	1688.8	1688.8	1686.9	1698.3	1705.9	1722.9	1736.1	1758.9	1760.8	1777.8	1794.8
10°	1649.1	1650.9	1649.1	1658.5	1669.9	1690.7	1713.4	1745.6	1747.5	1772.1	1789.2
12.5°	1633.9	1633.9	1633.9	1647.2	1662.3	1690.7	1717.2	1751.3	1755.1	1781.6	1796.7
15°	1654.7	1656.6	1652.8	1666.1	1683.1	1717.2	1741.8	1777.8	1781.6	1806.2	1815.7
17.5°	1728.6	1736.1	1726.7	1734.3	1730.5	1757.0	1779.7	1815.7	1817.6	1838.4	1842.2
20°	1874.4	1881.9	1866.8	1857.3	1823.2	1821.3	1830.8	1859.2	1859.2	1872.5	1863.0
22.5°	2099.7	2107.2	2080.7	2044.8	1963.3	1923.6	1902.8	1916.0	1914.1	1919.8	1895.2
25°	2398.8	2396.9	2364.7	2298.5	2167.8	2071.3	2020.1	1999.3	1999.3	1988.0	1957.7
27.5°	2769.9	2741.5	2684.7	2605.2	2423.4	2289.0	2179.2	2126.2	2116.7	2082.6	2025.8
30°	3165.6	3144.8	3063.3	2947.9	2737.7	2565.4	2383.7	2277.6	2271.9	2198.1	2112.9
32.5°	3631.3	3597.2	3506.4	3368.2	3116.4	2874.0	2646.8	2485.9	2476.4	2359.0	2241.7
35°	4229.6	4201.2	4025.1	3886.9	3563.2	3245.1	2976.2	2762.3	2754.7	2610.8	2461.3
37.5°	4947.2	4873.3	4702.9	4443.5	4102.8	3726.0	3385.2	3116.4	3106.9	2947.9	2758.5
40°	5587.1	5520.8	5369.4	5130.8	4765.4	4347.0	3885.0	3559.4	3549.9	3356.8	3118.2
42.5°	6060.4	6015.0	5916.5	5778.3	5517.0	5263.3	4523.1	4095.2	4078.1	3828.2	3531.0
45°	6334.9	6299.0	6242.2	6276.3	6272.5	6225.1	5284.2	4733.2	4678.3	4354.6	3991.1
47.5°	6268.7	6236.5	6259.2	6524.3	6889.7	7164.2	6170.2	5386.4	5312.6	4890.4	4481.4
50°	5789.7	5802.9	5922.2	6429.6	7249.4	7859.0	7152.8	6130.5	6032.0	5430.0	4947.2
52.5°	4916.9	4949.1	5238.7	5948.7	7209.6	8309.6	8040.8	6899.1	6768.5	5956.3	5371.3
55°	3905.9	3987.3	4362.1	5108.1	6690.9	8341.8	8711.0	7671.6	7527.7	6450.4	5740.5
57.5°	2889.2	3010.3	3443.9	4129.3	5696.9	7832.5	9046.1	8410.0	8235.8	6940.8	6130.5
60°	1832.7	1906.5	2406.4	3214.8	4360.2	6586.8	9002.6	9038.6	8887.1	7429.3	6537.5
62.5°	1170.1	1206.0	1457.8	2292.8	3048.2	4877.1	8527.4	9513.8	9411.5	7874.2	6923.8
65°	751.6	766.8	895.5	1410.5	2075.0	2944.1	7344.1	9564.9	9578.1	8152.5	7162.3
67.5°	611.5	619.1	666.4	870.9	1467.3	1626.3	5115.7	8837.9	8998.8	8080.6	7080.9
70°	556.6	566.1	615.3	694.8	1136.0	1122.7	2476.4	7395.2	7658.4	7665.9	6719.3
72.5°	469.5	482.8	549.1	657.0	878.5	886.1	1048.9	5267.1	5655.3	6851.8	6175.9
75°	391.9	399.5	456.3	579.3	744.1	708.1	736.5	2792.6	3353.0	5494.3	5598.5
77.5°	318.1	325.6	367.3	462.0	660.8	550.9	579.3	1156.8	1429.4	3729.8	4576.1
80°	227.2	234.8	282.1	359.7	499.8	496.0	429.8	638.0	692.9	2016.4	2972.5
82.5°	162.8	168.5	213.9	257.5	346.5	497.9	323.8	433.6	454.4	893.6	1198.5
85°	109.8	109.8	147.7	170.4	223.4	314.3	261.3	293.5	306.7	424.1	323.8
87.5°	47.3	47.3	79.5	87.1	117.4	145.8	195.0	147.7	151.5	229.1	132.5
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°	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6
2.5°	1810.0	1811.9	1815.7	1827.0	1834.6	1846.0	1851.6	1859.2	1859.2	1855.4	1857.3
5°	1806.2	1811.9	1825.1	1846.0	1859.2	1880.0	1895.2	1906.5	1910.3	1906.5	1908.4
7.5°	1804.3	1813.8	1836.5	1866.8	1885.7	1912.2	1933.0	1946.3	1955.8	1952.0	1953.9
10°	1798.6	1813.8	1842.2	1880.0	1908.4	1934.9	1953.9	1959.6	1965.2	1961.4	1959.6
12.5°	1806.2	1823.2	1853.5	1899.0	1931.2	1952.0	1957.7	1948.2	1934.9	1927.4	1925.5
15°	1821.3	1838.4	1868.7	1916.0	1944.4	1952.0	1938.7	1908.4	1878.1	1861.1	1859.2
17.5°	1842.2	1853.5	1878.1	1919.8	1942.5	1933.0	1906.5	1870.6	1847.8	1834.6	1836.5
20°	1855.4	1855.4	1874.4	1906.5	1925.5	1917.9	1885.7	1846.0	1810.0	1792.9	1787.3
22.5°	1874.4	1864.9	1866.8	1895.2	1921.7	1910.3	1842.2	1772.1	1721.0	1702.1	1700.2
25°	1925.5	1899.0	1881.9	1899.0	1961.4	1868.7	1732.4	1650.9	1603.6	1586.6	1588.5
27.5°	1988.0	1952.0	1916.0	1944.4	1993.6	1774.0	1592.3	1499.5	1471.1	1457.8	1463.5
30°	2050.4	2003.1	1955.8	2058.0	1970.9	1626.3	1412.4	1321.5	1296.9	1287.4	1295.0
32.5°	2165.9	2088.3	2031.5	2209.5	1900.9	1457.8	1217.4	1134.1	1111.4	1100.0	1096.2
35°	2359.0	2260.6	2203.8	2342.0	1802.4	1270.4	1039.4	980.7	956.1	931.5	927.7
37.5°	2637.4	2518.1	2467.0	2417.7	1664.2	1084.9	903.1	863.3	827.4	789.5	787.6
40°	2970.6	2815.3	2777.5	2451.8	1473.0	910.7	808.4	770.6	725.1	689.2	691.1
42.5°	3354.9	3156.1	3074.7	2442.3	1236.3	817.9	740.3	698.6	658.9	626.7	624.8
45°	3765.8	3540.4	3353.0	2376.1	1001.5	753.5	698.6	649.4	609.6	573.7	569.9
47.5°	4220.1	3968.3	3610.5	2247.3	827.4	708.1	674.0	604.0	568.0	545.3	545.3
50°	4678.3	4377.3	3847.2	2052.3	725.1	674.0	638.0	579.3	550.9	532.0	532.0
52.5°	5070.2	4803.3	4042.2	1819.5	660.8	645.6	613.4	568.0	537.7	520.7	518.8
55°	5450.8	5199.0	4216.4	1588.5	607.7	607.7	607.7	558.5	524.4	509.3	507.4
57.5°	5829.4	5615.5	4398.1	1437.0	560.4	575.6	596.4	547.2	513.1	499.8	497.9
60°	6257.3	6115.3	4608.3	1331.0	518.8	541.5	581.2	533.9	494.1	482.8	480.9
62.5°	6711.7	6711.7	4799.5	1181.4	480.9	513.1	558.5	516.9	477.1	467.6	465.7
65°	7067.6	7221.0	4922.6	958.0	443.0	484.7	532.0	494.1	454.4	452.5	448.7
67.5°	7109.3	7349.7	4844.9	723.2	409.0	454.4	505.5	469.5	431.7	431.7	426.0
70°	6810.2	7054.4	4602.6	541.5	384.3	424.1	471.4	439.2	403.3	407.1	397.6
72.5°	6310.3	6370.9	4000.5	427.9	355.9	391.9	429.8	405.2	373.0	373.0	359.7
75°	5651.5	5314.5	2906.2	357.8	321.9	354.0	388.1	367.3	338.9	329.4	321.9
77.5°	4498.5	3850.9	1688.8	308.6	293.5	318.1	340.8	325.6	301.0	280.2	280.2
80°	2741.5	2256.8	746.0	267.0	259.4	278.3	293.5	276.4	255.6	234.8	229.1
82.5°	1043.2	870.9	361.6	229.1	227.2	238.6	249.9	232.9	217.7	208.3	179.9
85°	285.9	263.2	248.0	191.2	187.4	185.5	198.8	191.2	170.4	140.1	125.0
87.5°	107.9	123.1	134.4	117.4	125.0	115.5	132.5	121.2	107.9	70.1	62.5
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)