

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: P381006

Luminaire Tested: **PRV-PA2A-750-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381006
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-750-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 15560 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

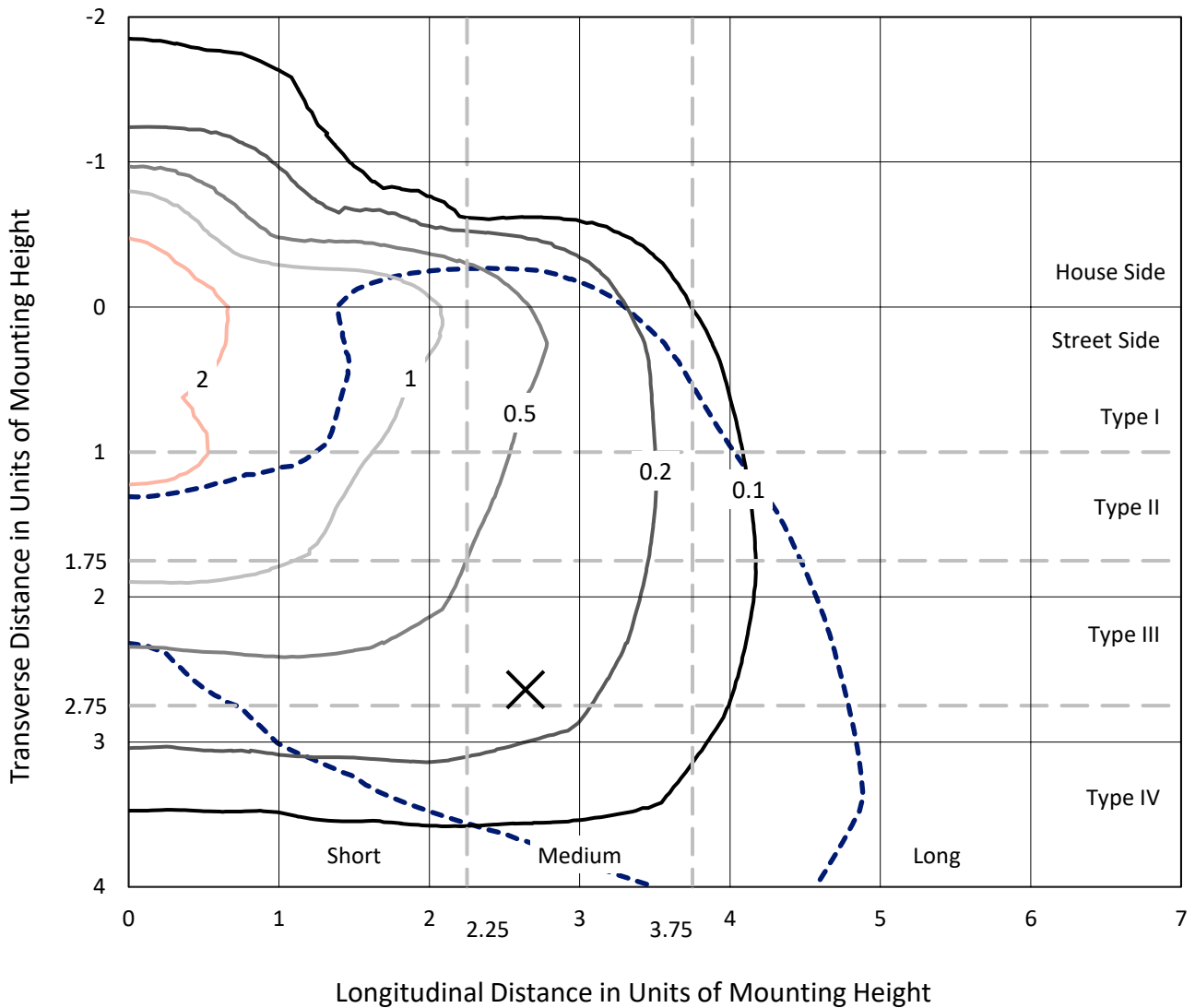
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

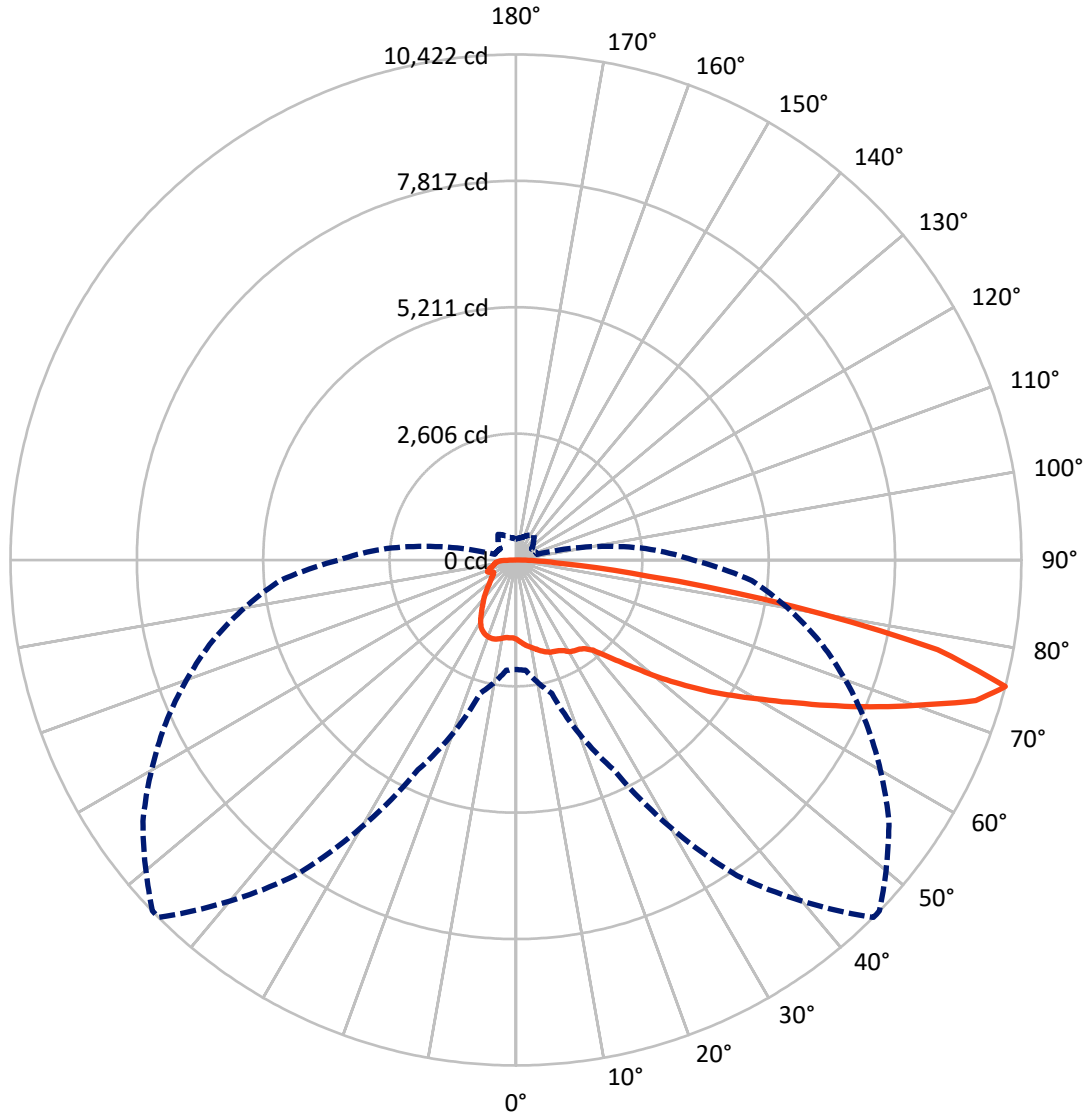
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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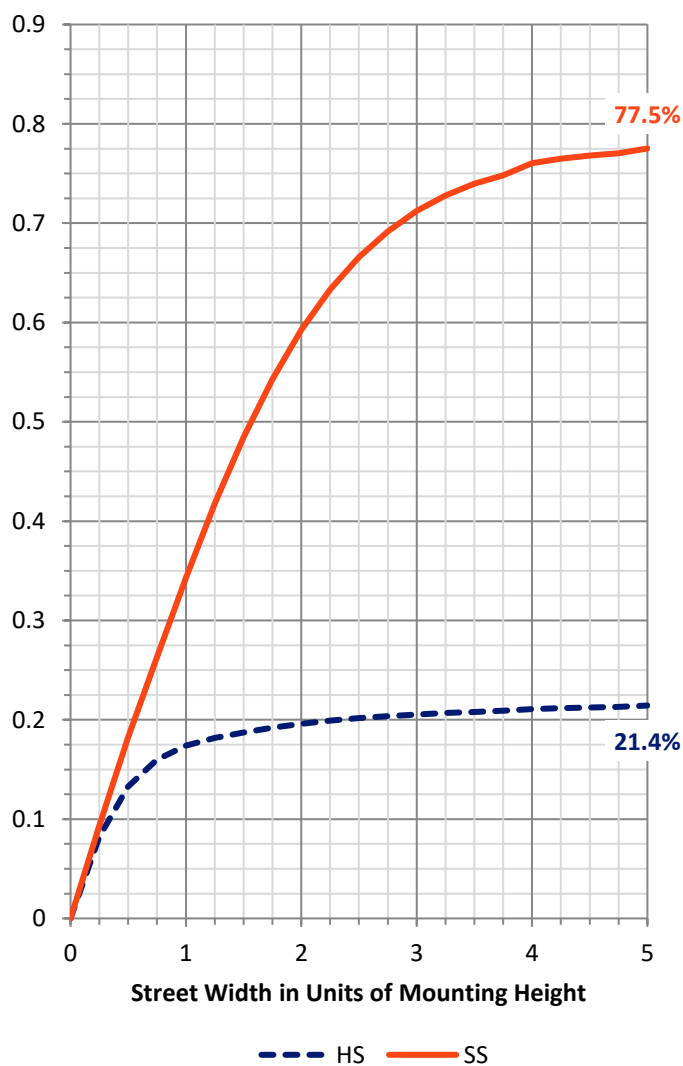
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3438.7	0.0	3438.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12121.3	0.0	12121.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	15560.0	0.0	15560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.0
10°-20°	514.3	3.3
20°-30°	876.8	5.6
30°-40°	1228.5	7.9
40°-50°	1804.9	11.6
50°-60°	2872.5	18.5
60°-70°	4086.2	26.3
70°-80°	3421.3	22.0
80°-90°	593.8	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°	15560.0	100.0
0°-180°	15560.0	100.0

Coefficient of Utilization



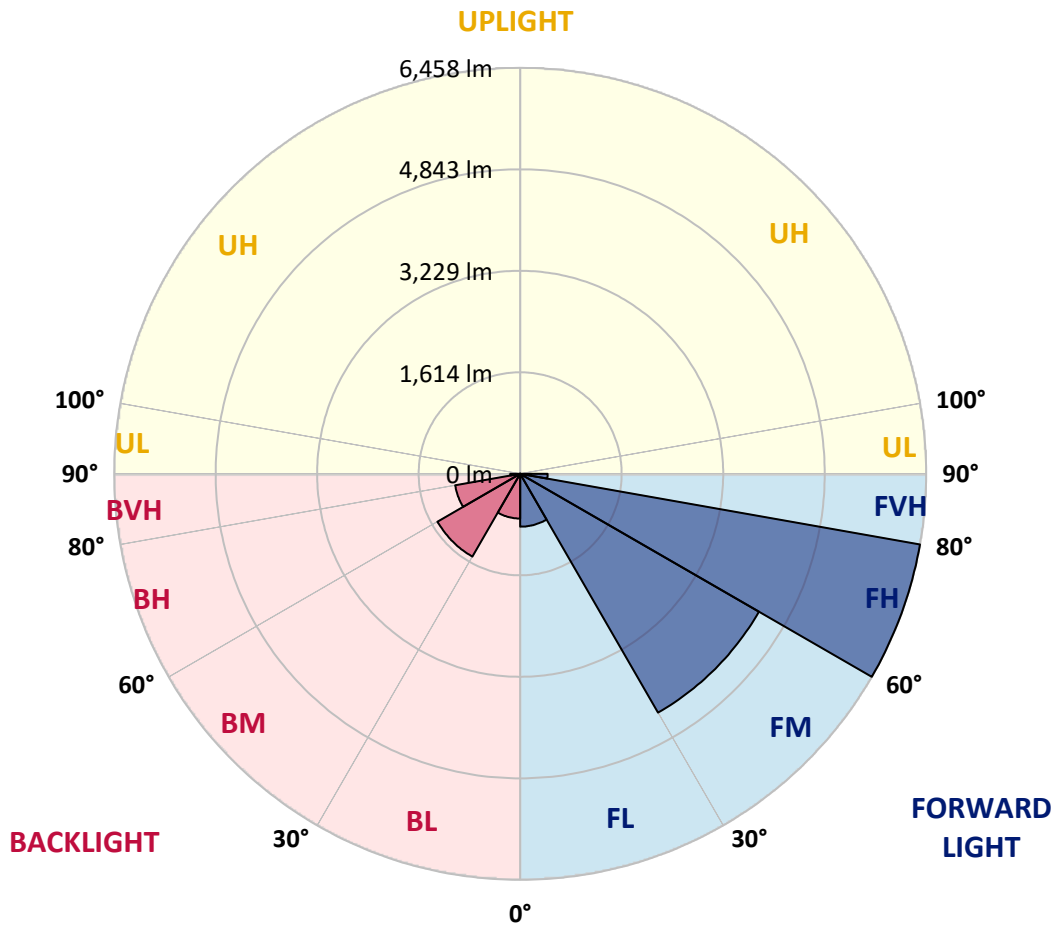
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.1	5.4			
FM (30°-60°)	4385.9	28.2			
FH (60°-80°)	6457.8	41.5			G3/7500
FVH (80°-90°)	436.5	2.8			G3/500
BL (0°-30°)	711.7	4.6	B2/1000		
BM (30°-60°)	1520.1	9.8	B2/2500		
BH (60°-80°)	1049.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	157.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1727.7	1719.4	1715.2	1715.2	1698.6	1688.2	1686.1	1671.6	1659.1	1646.6	1636.2
5°	1827.5	1821.3	1808.8	1798.4	1775.5	1746.4	1742.3	1711.1	1679.9	1650.8	1625.8
7.5°	1919.0	1906.5	1891.9	1871.2	1833.7	1794.2	1788.0	1744.3	1700.7	1657.0	1623.7
10°	1995.9	1983.4	1962.6	1933.5	1885.7	1837.9	1831.7	1785.9	1740.2	1688.2	1640.4
12.5°	2068.7	2058.3	2027.1	1987.6	1931.4	1887.8	1881.5	1842.0	1794.2	1736.0	1673.6
15°	2131.0	2120.6	2087.4	2041.6	1977.2	1943.9	1935.6	1898.2	1850.4	1788.0	1723.5
17.5°	2162.2	2162.2	2126.9	2077.0	2016.7	1991.7	1985.5	1939.8	1896.1	1835.8	1771.4
20°	2172.6	2176.8	2151.8	2091.5	2039.6	2029.2	2022.9	1985.5	1935.6	1877.4	1817.1
22.5°	2178.9	2187.2	2166.4	2097.8	2054.1	2047.9	2043.7	2018.8	1979.3	1923.1	1862.8
25°	2199.6	2199.6	2185.1	2108.2	2072.8	2070.7	2070.7	2056.2	2029.2	1981.3	1921.1
27.5°	2230.8	2228.8	2210.0	2131.0	2114.4	2120.6	2118.6	2116.5	2097.8	2050.0	1985.5
30°	2282.8	2282.8	2262.0	2176.8	2166.4	2193.4	2195.5	2199.6	2170.5	2095.7	2043.7
32.5°	2361.8	2353.5	2332.7	2222.5	2205.9	2230.8	2235.0	2232.9	2208.0	2137.3	2112.3
35°	2605.1	2586.3	2511.5	2324.4	2241.2	2255.8	2257.9	2268.3	2272.4	2216.3	2203.8
37.5°	3031.3	3006.3	2892.0	2565.6	2353.5	2318.2	2316.1	2343.1	2366.0	2316.1	2316.1
40°	3494.9	3474.1	3407.6	2981.4	2561.4	2445.0	2436.7	2461.6	2490.7	2455.4	2465.8
42.5°	3894.1	3910.7	3916.9	3422.1	2873.3	2682.0	2659.1	2623.8	2669.5	2638.3	2679.9
45°	4193.5	4185.1	4299.5	3873.3	3276.6	2979.3	2948.1	2852.5	2910.7	2908.6	3000.1
47.5°	4511.6	4497.0	4544.8	4297.4	3736.1	3343.1	3295.3	3153.9	3241.3	3301.5	3453.3
50°	4813.0	4817.2	4833.8	4632.1	4235.0	3786.0	3725.7	3536.5	3661.2	3788.0	4002.2
52.5°	5206.0	5176.9	5156.1	5023.0	4794.3	4247.5	4208.0	3991.8	4166.4	4316.1	4601.0
55°	5549.0	5530.3	5517.8	5511.6	5262.1	4756.9	4715.3	4490.8	4742.3	4848.4	5268.3
57.5°	5914.9	5904.5	5971.1	6077.1	5977.3	5274.6	5230.9	5014.7	5295.4	5370.2	5991.8
60°	6183.1	6189.4	6372.3	6642.6	6574.0	5835.9	5783.9	5592.7	5833.8	5900.4	6715.4
62.5°	6185.2	6247.6	6671.7	7156.1	7235.1	6482.5	6422.2	6214.3	6386.9	6386.9	7364.0
65°	5594.7	5665.4	6617.6	7282.9	7904.6	7251.8	7193.5	6867.1	6931.6	6844.3	7973.2
67.5°	5006.4	5089.5	5985.6	7293.3	8374.5	8075.1	8006.5	7520.0	7409.8	7189.4	8399.4
70°	4615.5	4673.7	5422.2	7158.2	8657.2	8935.8	8883.8	8139.5	7786.1	7478.4	8310.0
72.5°	3885.8	3865.0	4580.2	6515.8	8815.2	9913.0	9869.3	8813.1	8112.5	7341.2	7087.5
75°	2255.8	2280.7	2842.1	4773.5	7946.2	10422.3	10418.2	9389.0	7969.0	6484.6	4883.7
77.5°	650.7	669.5	933.5	2097.8	5025.1	8890.1	9174.9	8586.5	6736.2	4621.7	2532.3
80°	284.8	299.4	405.4	698.6	2164.3	5806.8	6056.3	5806.8	4062.5	2120.6	993.8
82.5°	168.4	178.8	264.0	432.4	1037.5	2763.1	3099.9	2706.9	1752.6	900.2	411.7
85°	95.6	99.8	151.8	274.4	652.8	966.8	1085.3	1016.7	854.5	511.4	216.2
87.5°	43.7	45.7	74.8	128.9	365.9	326.4	338.9	449.1	494.8	311.9	108.1
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°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1632.1	1625.8	1613.3	1609.2	1603.0	1605.0	1607.1	1607.1	1609.2	1603.0	1603.0
5°	1615.4	1605.0	1592.6	1592.6	1592.6	1609.2	1623.7	1632.1	1636.2	1636.2	1632.1
7.5°	1609.2	1596.7	1582.2	1586.3	1590.5	1611.3	1638.3	1665.3	1673.6	1673.6	1669.5
10°	1621.7	1609.2	1598.8	1605.0	1615.4	1632.1	1652.9	1677.8	1698.6	1700.7	1698.6
12.5°	1650.8	1636.2	1625.8	1638.3	1650.8	1661.2	1671.6	1682.0	1709.0	1713.1	1713.1
15°	1698.6	1684.0	1671.6	1682.0	1686.1	1686.1	1686.1	1686.1	1713.1	1717.3	1717.3
17.5°	1746.4	1733.9	1721.5	1723.5	1711.1	1694.4	1688.2	1686.1	1700.7	1713.1	1715.2
20°	1792.1	1781.8	1769.3	1748.5	1717.3	1686.1	1675.7	1675.7	1684.0	1702.7	1702.7
22.5°	1842.0	1829.6	1808.8	1761.0	1709.0	1665.3	1654.9	1661.2	1671.6	1696.5	1694.4
25°	1898.2	1881.5	1846.2	1756.8	1682.0	1630.0	1632.1	1650.8	1669.5	1696.5	1696.5
27.5°	1960.6	1937.7	1867.0	1723.5	1621.7	1571.8	1590.5	1634.1	1661.2	1690.3	1694.4
30°	2029.2	2008.4	1883.6	1665.3	1524.0	1478.2	1524.0	1594.6	1636.2	1663.2	1669.5
32.5°	2112.3	2095.7	1898.2	1590.5	1397.1	1357.6	1424.2	1511.5	1578.0	1609.2	1615.4
35°	2216.3	2199.6	1916.9	1505.2	1278.6	1237.0	1297.3	1386.7	1474.1	1513.6	1526.0
37.5°	2351.4	2326.5	1933.5	1413.8	1178.8	1131.0	1160.1	1241.2	1320.2	1374.3	1388.8
40°	2524.0	2484.5	1948.1	1309.8	1091.5	1037.5	1047.8	1087.3	1133.1	1180.9	1199.6
42.5°	2767.2	2688.2	1950.2	1199.6	1002.1	952.2	948.1	960.5	960.5	960.5	966.8
45°	3106.1	2956.4	1954.3	1095.7	910.6	858.7	846.2	842.0	810.8	750.5	746.4
47.5°	3534.4	3307.8	1973.0	1008.3	815.0	769.3	752.6	736.0	677.8	615.4	602.9
50°	4083.3	3715.3	2010.5	925.2	733.9	702.7	681.9	642.4	578.0	530.2	517.7
52.5°	4715.3	4199.7	2045.8	837.9	673.6	652.8	627.9	580.1	511.4	482.3	478.2
55°	5440.9	4740.3	2116.5	760.9	621.6	607.1	584.2	538.5	486.5	465.7	463.6
57.5°	6183.1	5345.3	2216.3	692.3	571.7	563.4	563.4	523.9	490.7	482.3	482.3
60°	6898.3	5865.0	2139.4	627.9	526.0	530.2	569.7	559.3	534.3	544.7	551.0
62.5°	7453.4	6170.6	1736.0	575.9	492.7	530.2	632.0	632.0	602.9	598.8	598.8
65°	7690.4	6166.5	1220.4	536.4	480.3	582.1	704.8	671.5	594.6	565.5	559.3
67.5°	7630.1	5896.2	842.0	509.4	476.1	636.2	738.1	644.5	557.2	532.2	513.5
70°	7100.0	5324.5	648.7	484.4	469.9	613.3	727.7	613.3	528.1	505.2	488.6
72.5°	5727.8	4270.4	538.5	459.5	444.9	567.6	692.3	584.2	505.2	480.3	463.6
75°	3652.9	2686.1	455.3	426.2	397.1	509.4	644.5	555.1	480.3	447.0	434.5
77.5°	1756.8	1158.0	397.1	386.7	357.6	471.9	596.7	517.7	447.0	420.0	411.7
80°	711.0	530.2	345.1	347.2	328.5	449.1	563.4	482.3	413.7	384.6	370.1
82.5°	370.1	307.7	291.1	299.4	299.4	428.3	538.5	453.2	384.6	372.2	324.3
85°	199.6	191.3	224.5	241.2	259.9	386.7	501.1	422.0	351.4	301.5	291.1
87.5°	97.7	124.7	126.8	145.5	180.9	309.8	422.0	353.4	293.1	243.2	239.1
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)