

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: P380934

Luminaire Tested: **PRV-PA2A-740-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-740-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15749 lumens
Efficiency: N/A
Efficacy: 140.6 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

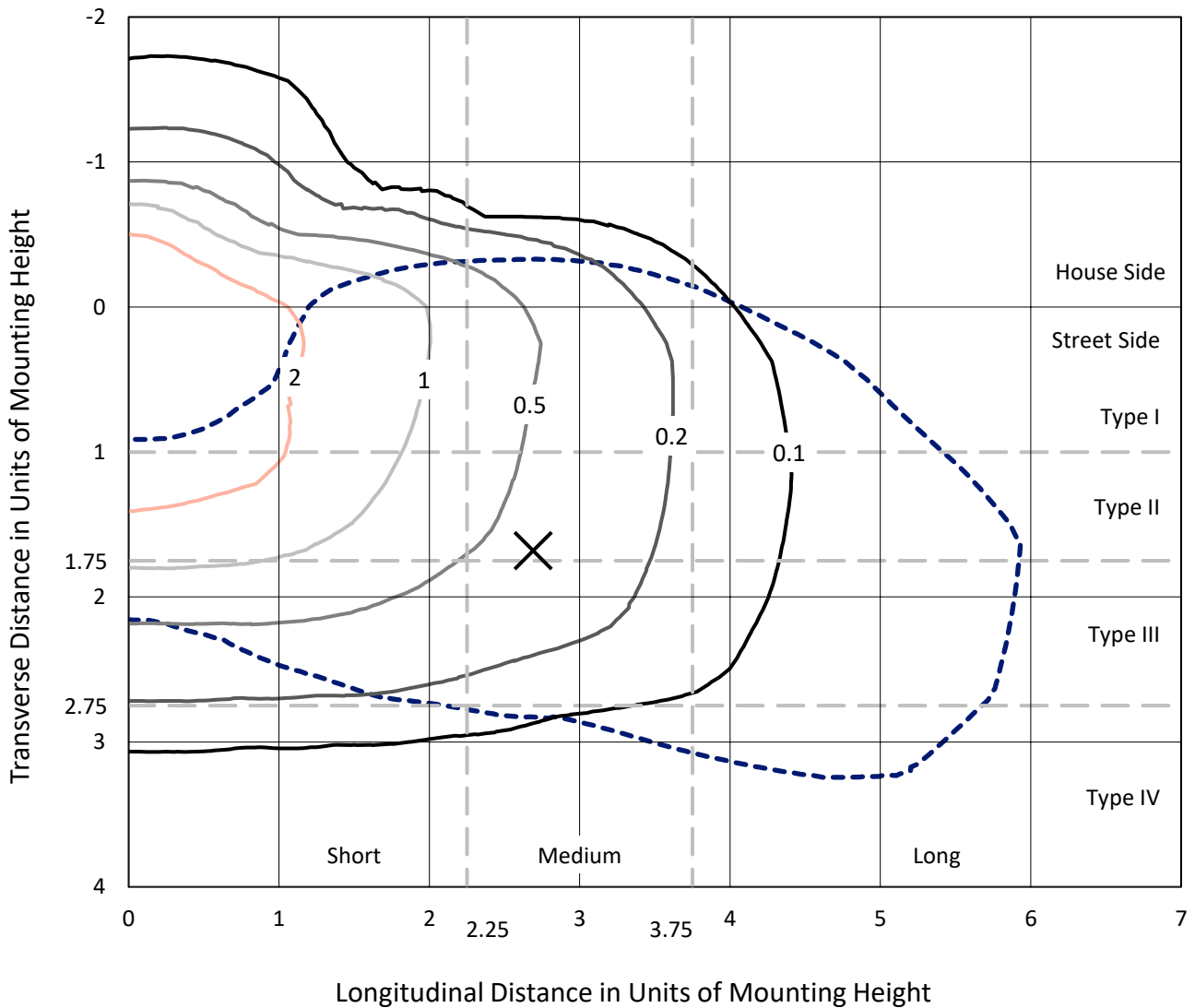
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

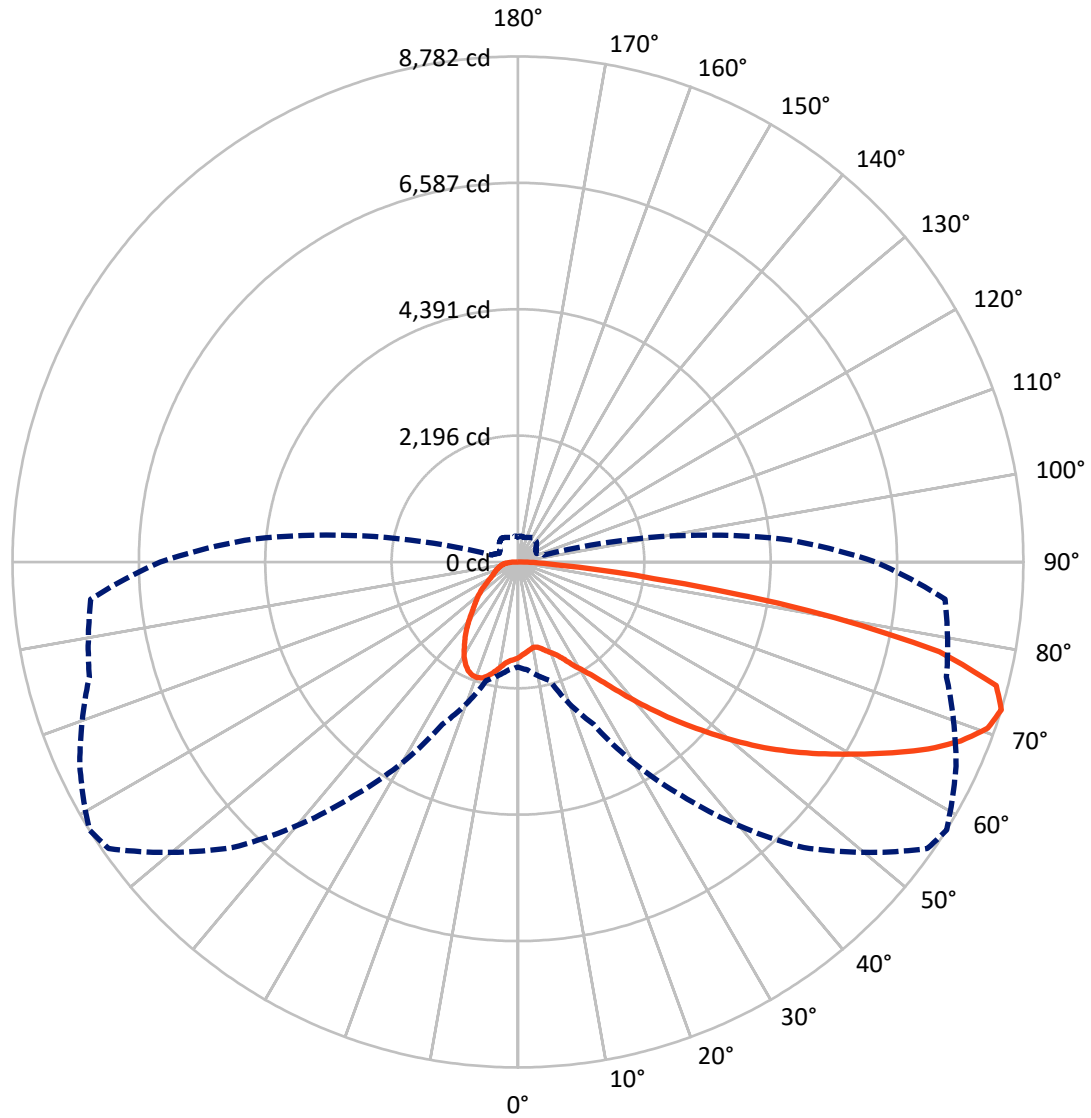
× Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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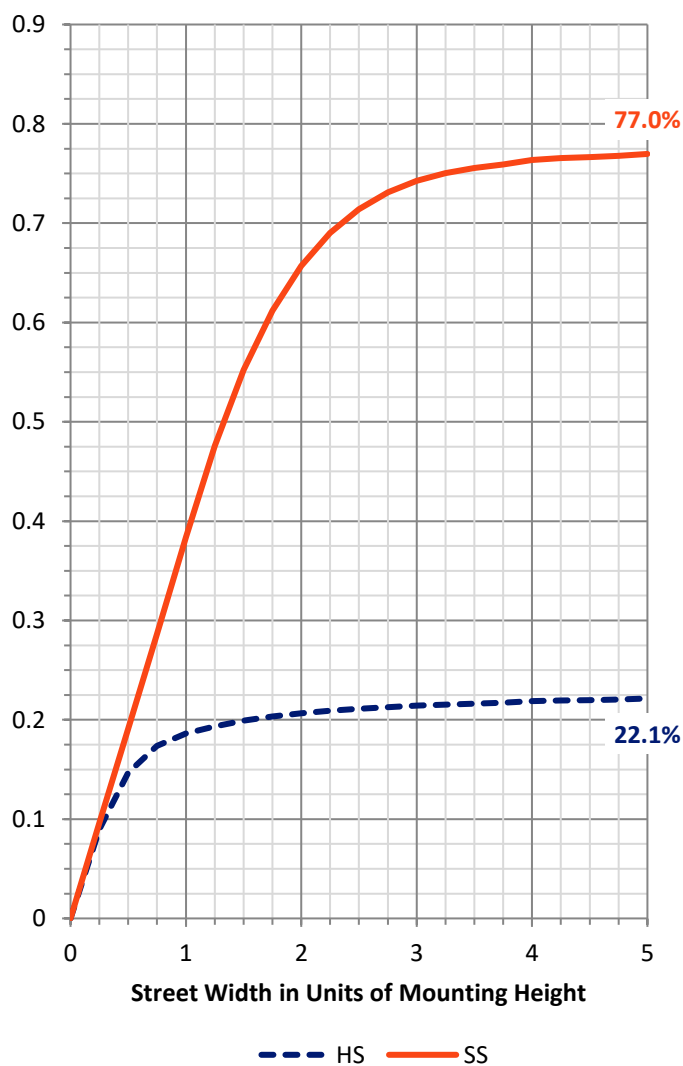
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3571.7	0.0	3571.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12177.3	0.0	12177.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	15749.0	0.0	15749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.0
10°-20°	508.2	3.2
20°-30°	910.4	5.8
30°-40°	1369.4	8.7
40°-50°	2217.6	14.1
50°-60°	3338.2	21.2
60°-70°	3928.7	24.9
70°-80°	2785.8	17.7
80°-90°	530.8	3.4
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°	15749.0	100.0
0°-180°	15749.0	100.0

Coefficient of Utilization

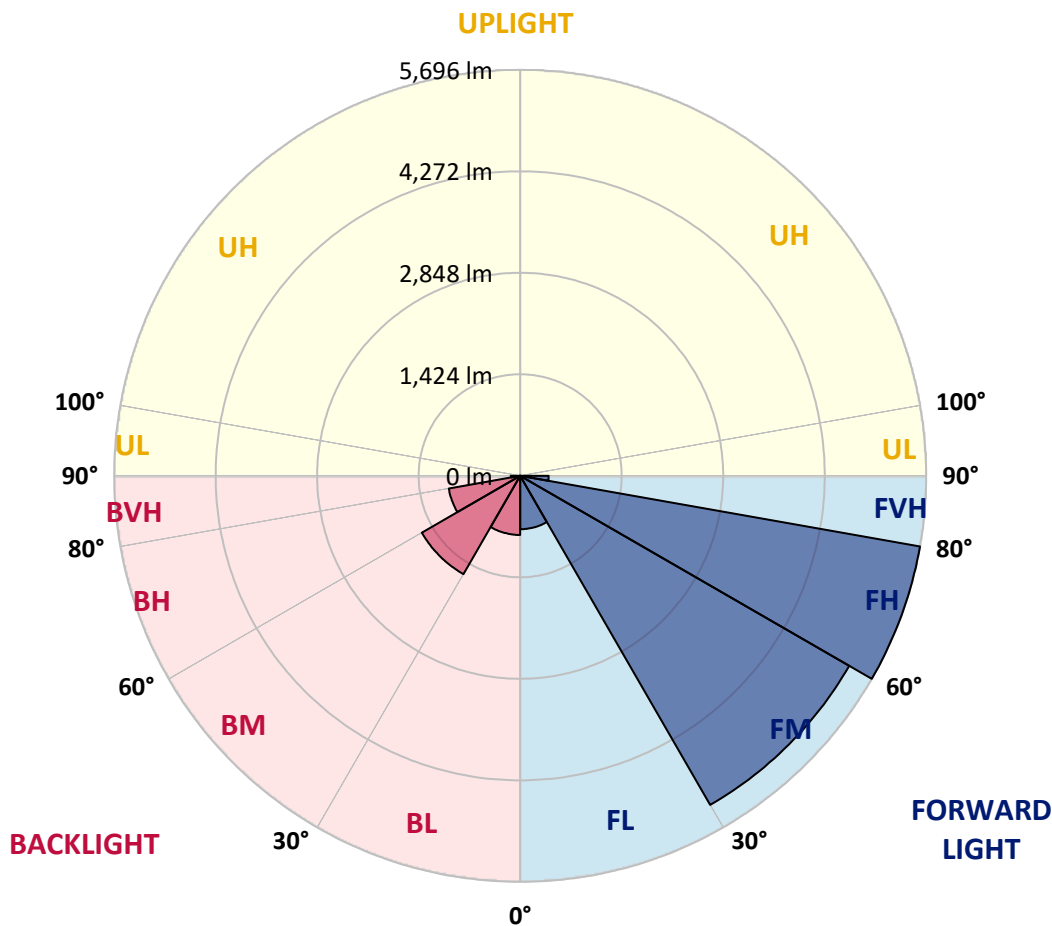


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.9	4.8			
FM (30°-60°)	5331.5	33.9			
FH (60°-80°)	5696.5	36.2			G3/7500
FVH (80°-90°)	400.4	2.5			G3/500
BL (0°-30°)	829.6	5.3	B2/1000		
BM (30°-60°)	1593.7	10.1	B2/2500		
BH (60°-80°)	1018.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	130.4	0.8			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°	55°	58°	65°	75°	85°
0°	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2
2.5°	1598.8	1590.5	1592.6	1592.6	1600.9	1605.0	1607.1	1613.4	1617.5	1627.9	1642.5
5°	1524.0	1517.7	1519.8	1521.9	1536.4	1551.0	1563.5	1571.8	1584.3	1600.9	1621.7
7.5°	1469.9	1465.8	1467.8	1472.0	1484.5	1501.1	1521.9	1534.4	1553.1	1584.3	1619.6
10°	1430.4	1430.4	1432.5	1440.8	1453.3	1474.1	1490.7	1505.3	1542.7	1598.8	1652.9
12.5°	1399.2	1399.2	1405.5	1422.1	1442.9	1463.7	1503.2	1519.8	1569.7	1646.6	1711.1
15°	1397.1	1399.2	1401.3	1415.9	1438.7	1484.5	1542.7	1567.6	1627.9	1719.4	1794.2
17.5°	1430.4	1432.5	1424.2	1428.3	1455.4	1519.8	1596.7	1625.8	1702.8	1802.6	1879.5
20°	1532.3	1532.3	1507.3	1484.5	1503.2	1573.9	1661.2	1690.3	1775.5	1885.7	1962.7
22.5°	1740.2	1750.6	1692.4	1642.5	1613.4	1652.9	1731.9	1763.1	1858.7	1977.2	2054.1
25°	1991.8	2002.2	1923.1	1852.5	1798.4	1792.2	1844.1	1877.4	1956.4	2079.1	2143.5
27.5°	2235.0	2216.3	2143.5	2077.0	2008.4	1952.3	1991.8	2020.9	2112.3	2205.9	2245.4
30°	2426.3	2411.7	2341.0	2293.2	2228.8	2156.0	2133.1	2164.3	2239.2	2326.5	2347.3
32.5°	2638.4	2628.0	2557.3	2494.9	2440.8	2372.2	2322.3	2336.9	2378.5	2440.8	2453.3
35°	2908.6	2931.5	2856.7	2729.8	2669.5	2603.0	2567.7	2571.8	2603.0	2642.5	2621.7
37.5°	3193.5	3220.5	3224.7	3025.1	2944.0	2883.7	2846.3	2860.8	2898.2	2925.3	2860.8
40°	3721.6	3694.5	3586.4	3438.8	3314.1	3255.8	3203.9	3201.8	3228.8	3276.6	3160.2
42.5°	4422.2	4397.3	4179.0	3987.7	3790.2	3723.6	3621.8	3578.1	3590.6	3650.9	3488.7
45°	5093.7	5083.3	4908.7	4686.2	4449.2	4320.3	4087.5	3981.4	3971.0	4018.9	3825.5
47.5°	5690.4	5644.7	5517.9	5345.3	5320.4	4983.6	4555.3	4411.8	4361.9	4388.9	4172.7
50°	6328.7	6172.8	5998.1	5892.1	6073.0	5759.1	5027.2	4877.5	4754.9	4773.6	4549.0
52.5°	6667.6	6405.6	6291.3	6322.5	6565.7	6445.1	5540.7	5357.8	5160.3	5187.3	4923.3
55°	6376.5	6374.5	6424.4	6617.7	6956.6	6817.3	6029.3	5823.5	5607.3	5613.5	5353.6
57.5°	5977.4	6058.4	6316.2	6742.5	7441.0	7208.2	6509.6	6291.3	6093.8	6062.6	5842.2
60°	5613.5	5702.9	6077.2	6721.7	7609.4	7565.8	6967.0	6775.7	6615.6	6524.2	6355.7
62.5°	5060.5	5127.0	5657.2	6588.6	7468.1	7823.6	7430.6	7299.6	7179.1	6989.9	6908.8
65°	4409.7	4432.6	4991.9	6149.9	7291.3	7923.4	7892.2	7834.0	7717.5	7438.9	7455.6
67.5°	3704.9	3750.7	4241.3	5449.3	6904.6	7877.6	8249.8	8297.6	8160.4	7742.5	7804.9
70°	2954.4	3010.5	3382.7	4480.4	6247.6	7680.1	8580.4	8657.3	8393.2	7842.3	7869.3
72.5°	1827.5	1881.6	2131.1	3112.4	4952.4	7016.9	8682.2	8782.0	8399.5	7709.2	7449.3
75°	632.0	638.3	833.7	1492.8	2939.8	5297.5	8349.6	8584.5	8135.4	7224.8	6482.6
77.5°	289.0	299.4	370.1	615.4	1303.6	2858.7	6894.2	7482.6	7332.9	6468.0	4989.8
80°	199.6	203.7	255.7	368.0	752.6	1006.3	4351.5	5118.7	5380.7	5008.5	3197.6
82.5°	149.7	153.9	197.5	249.5	542.6	488.6	1657.0	2378.5	2956.5	2902.4	1336.8
85°	143.5	141.4	153.9	166.3	361.8	291.1	536.4	736.0	1153.9	987.6	336.8
87.5°	62.4	68.6	158.0	93.6	189.2	135.1	232.9	272.4	351.4	305.6	120.6
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°	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2	1661.2
2.5°	1648.7	1652.9	1665.3	1684.1	1694.4	1715.2	1729.8	1738.1	1744.3	1746.4	1746.4
5°	1634.2	1642.5	1669.5	1700.7	1729.8	1773.5	1813.0	1835.8	1852.5	1858.7	1860.8
7.5°	1638.3	1659.1	1698.6	1744.3	1781.8	1837.9	1885.7	1931.5	1968.9	1983.4	1983.4
10°	1677.8	1706.9	1761.0	1821.3	1869.1	1927.3	1977.2	2016.7	2060.4	2085.3	2089.5
12.5°	1738.1	1773.5	1844.1	1910.7	1964.7	2010.5	2056.2	2085.3	2106.1	2124.8	2129.0
15°	1823.4	1867.0	1937.7	2006.3	2054.1	2083.2	2095.7	2095.7	2093.6	2095.7	2099.9
17.5°	1908.6	1950.2	2020.9	2089.5	2112.3	2095.7	2081.2	2077.0	2074.9	2070.8	2072.8
20°	1991.8	2031.3	2091.6	2143.5	2124.8	2066.6	2047.9	2045.8	2039.6	2035.4	2031.3
22.5°	2074.9	2104.0	2153.9	2172.6	2097.8	2014.6	1991.8	1979.3	1971.0	1960.6	1950.2
25°	2170.6	2178.9	2216.3	2187.2	2031.3	1919.0	1885.7	1867.0	1858.7	1848.3	1840.0
27.5°	2260.0	2260.0	2266.2	2164.3	1933.5	1792.2	1742.3	1709.0	1706.9	1704.8	1702.8
30°	2341.0	2330.6	2309.9	2095.7	1806.7	1636.2	1561.4	1528.1	1540.6	1551.0	1553.1
32.5°	2436.7	2415.9	2357.7	2002.2	1654.9	1461.6	1370.1	1355.6	1370.1	1382.6	1374.3
35°	2586.4	2549.0	2407.6	1894.0	1509.4	1301.5	1214.2	1193.4	1189.2	1187.2	1170.5
37.5°	2800.5	2736.1	2447.1	1777.6	1366.0	1160.1	1095.7	1052.0	1012.5	970.9	964.7
40°	3062.5	2952.3	2474.1	1644.6	1214.2	1041.6	973.0	916.9	850.3	777.6	769.3
42.5°	3349.4	3185.2	2486.6	1496.9	1081.1	943.9	858.7	788.0	713.1	657.0	646.6
45°	3659.2	3436.7	2476.2	1355.6	973.0	860.7	765.1	688.2	627.9	588.4	580.1
47.5°	3960.6	3725.7	2447.1	1243.3	889.8	790.1	692.3	621.6	575.9	532.2	521.8
50°	4347.4	4002.2	2411.7	1156.0	798.4	719.4	646.6	571.7	519.8	499.0	494.8
52.5°	4775.6	4278.7	2370.2	1045.8	709.0	663.2	617.5	551.0	534.3	494.8	488.6
55°	5239.3	4607.2	2361.8	906.5	630.0	623.7	588.4	569.7	573.8	494.8	484.4
57.5°	5727.9	4958.6	2380.5	767.2	565.5	588.4	600.9	586.3	580.1	505.2	484.4
60°	6237.2	5297.5	2324.4	638.3	515.6	559.3	615.4	578.0	532.2	501.1	486.5
62.5°	6732.1	5582.3	2081.2	546.8	478.2	551.0	607.1	546.8	494.8	494.8	488.6
65°	7091.7	5709.2	1627.9	480.3	453.2	540.6	592.5	526.0	484.4	499.0	490.7
67.5°	7133.3	5578.2	1093.6	428.3	432.4	521.8	559.3	507.3	474.0	511.5	499.0
70°	6877.6	5237.2	669.5	388.8	405.4	488.6	530.2	488.6	459.5	501.1	482.3
72.5°	6214.4	4601.0	472.0	355.5	376.3	457.4	503.1	472.0	438.7	453.2	434.5
75°	5097.9	3565.6	374.2	324.3	347.2	428.3	480.3	447.0	413.7	407.5	395.0
77.5°	3611.4	2284.9	301.5	299.4	316.0	392.9	449.1	417.9	384.6	372.2	363.8
80°	2077.0	1120.6	259.9	270.3	286.9	357.6	411.7	384.6	353.4	334.7	322.3
82.5°	794.2	390.9	228.7	234.9	253.6	320.2	374.2	351.4	320.2	336.8	282.8
85°	257.8	214.1	187.1	193.4	212.1	266.1	330.6	311.9	276.5	245.3	226.6
87.5°	114.3	116.4	99.8	110.2	133.1	176.7	241.2	228.7	201.7	168.4	162.2
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)