

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: P286960

Luminaire Tested: **PRV-C40-D-UNV-T3-BZ**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T3-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17144 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

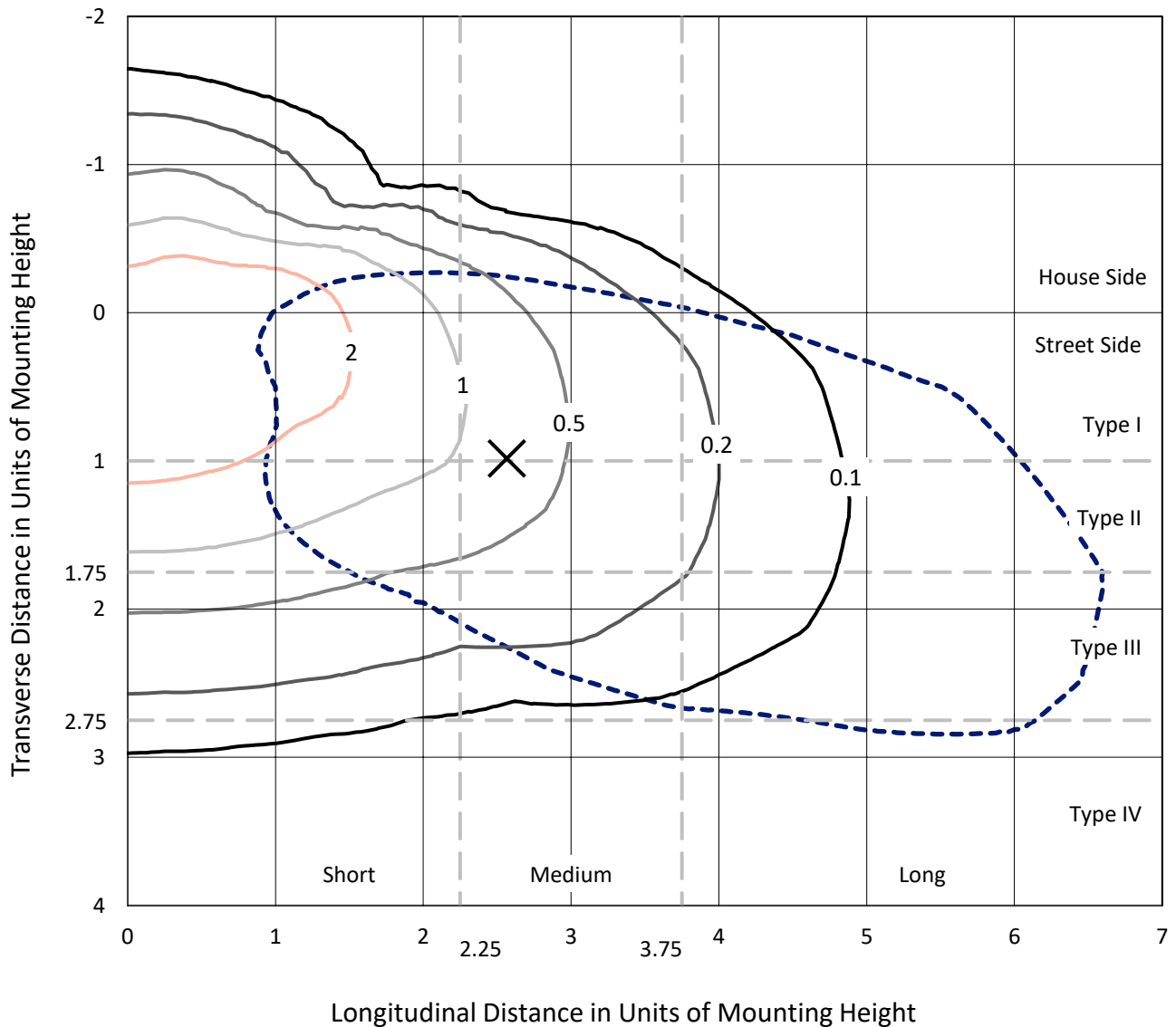
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

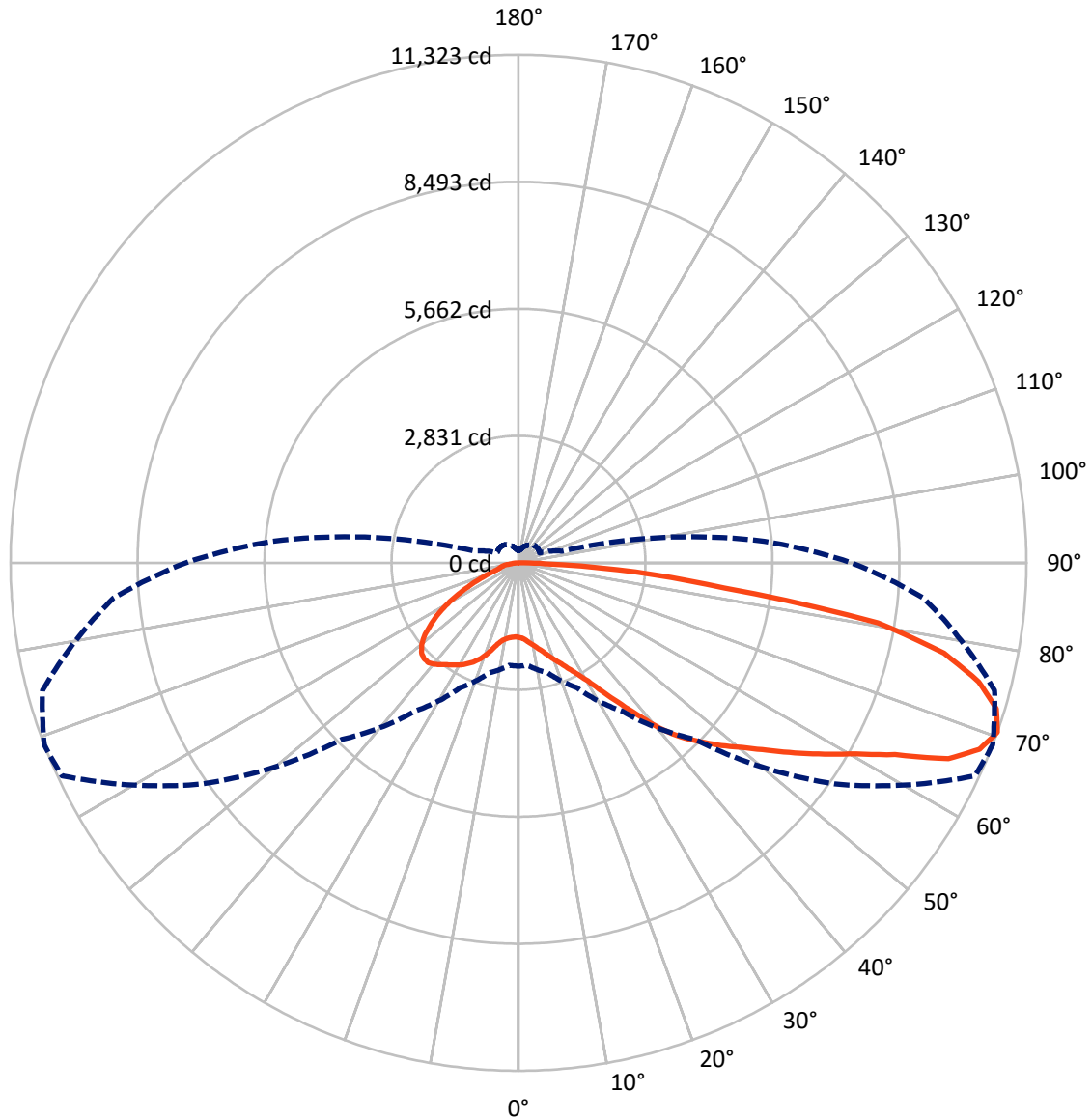
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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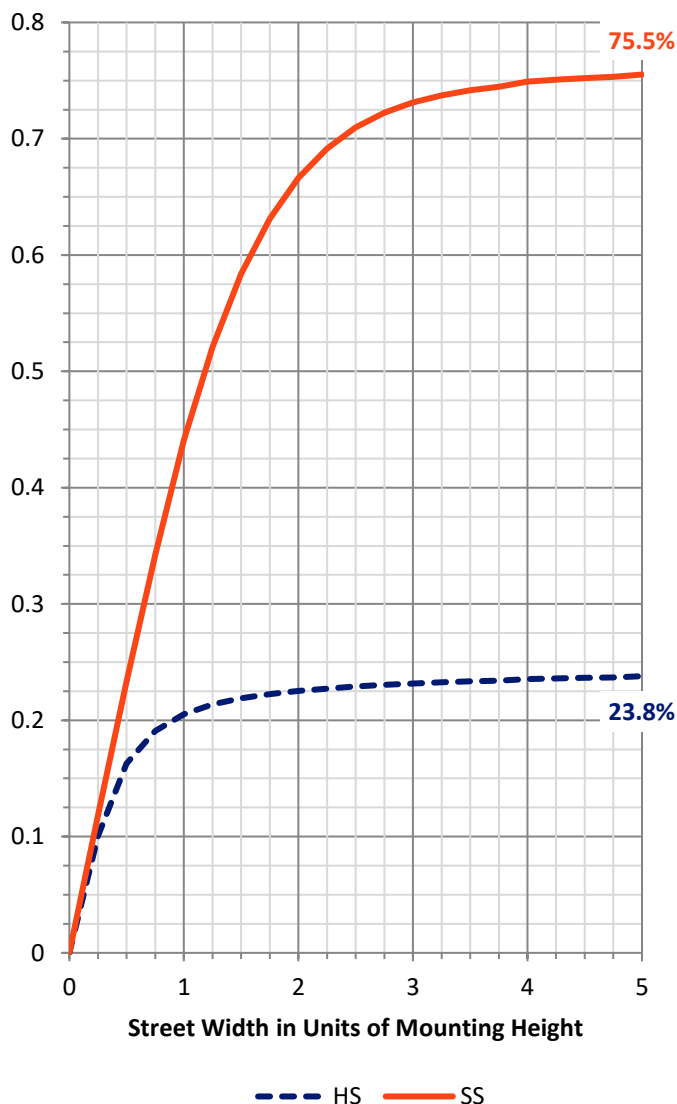
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4158.2	0.0	4158.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12985.8	0.0	12985.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	17144.0	0.0	17144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.0
10°-20°	542.2	3.2
20°-30°	1019.6	5.9
30°-40°	1745.5	10.2
40°-50°	2666.0	15.6
50°-60°	3447.7	20.1
60°-70°	3921.7	22.9
70°-80°	2988.2	17.4
80°-90°	648.2	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°	17144.0	100.0
0°-180°	17144.0	100.0

Coefficient of Utilization

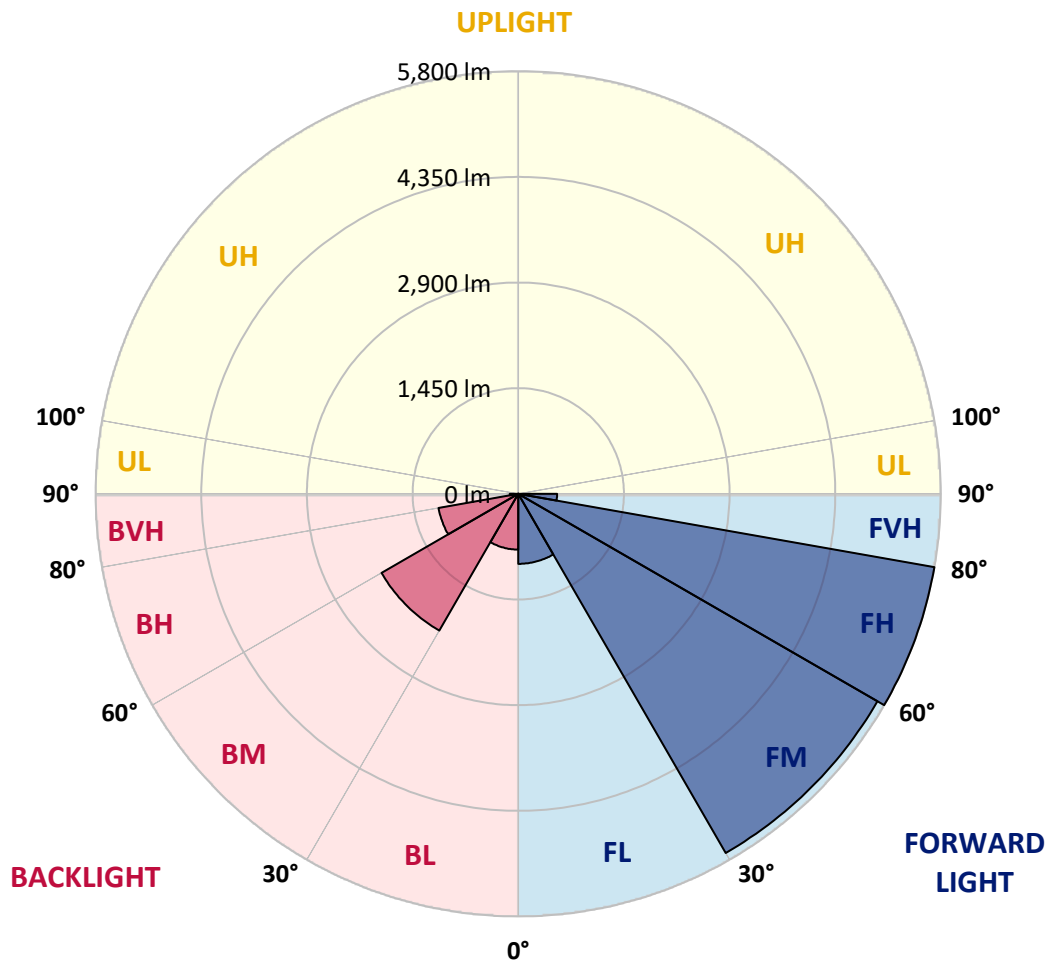


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.1	5.6			
FM (30°-60°)	5692.3	33.2			
FH (60°-80°)	5799.6	33.8			G3/7500
FVH (80°-90°)	532.8	3.1			G4/750
BL (0°-30°)	765.6	4.5	B2/1000		
BM (30°-60°)	2166.9	12.6	B2/2500		
BH (60°-80°)	1110.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	115.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
2.5°	1766.7	1754.9	1755.8	1725.6	1726.5	1714.7	1708.0	1698.0	1681.2	1687.1	1659.4
5°	1852.2	1836.2	1841.3	1805.2	1803.6	1787.6	1770.9	1740.7	1733.2	1729.8	1705.5
7.5°	1908.3	1905.0	1902.5	1884.0	1882.3	1863.9	1848.0	1815.3	1802.7	1787.6	1756.6
10°	1962.8	1965.3	1967.8	1936.0	1956.1	1934.3	1916.7	1889.9	1873.1	1868.1	1820.3
12.5°	1990.4	1993.0	2006.4	1997.2	2008.9	2020.6	2003.0	1975.4	1958.6	1958.6	1903.3
15°	2014.8	2021.5	2044.1	2051.6	2072.6	2082.6	2096.0	2078.4	2053.3	2049.1	2003.0
17.5°	2055.8	2052.5	2072.6	2106.1	2130.4	2149.7	2187.4	2182.4	2180.7	2169.8	2136.3
20°	2111.1	2105.3	2125.4	2139.6	2177.3	2235.2	2286.3	2312.3	2310.6	2304.7	2275.4
22.5°	2171.5	2165.6	2166.4	2177.3	2228.5	2315.6	2394.4	2443.9	2444.7	2448.0	2474.9
25°	2274.6	2250.3	2242.7	2251.9	2313.1	2419.5	2521.0	2602.3	2618.2	2637.5	2722.9
27.5°	2524.3	2536.0	2433.8	2367.6	2418.7	2549.5	2668.5	2788.3	2813.4	2871.3	3042.2
30°	2912.3	2893.1	2841.1	2697.0	2580.5	2697.0	2864.6	3012.9	3060.7	3208.2	3362.4
32.5°	3205.7	3206.5	3181.4	3059.0	2898.1	2869.6	3059.0	3304.6	3399.3	3673.3	3811.6
35°	3503.2	3490.6	3512.4	3396.8	3254.3	3152.9	3271.0	3595.4	3812.4	4218.1	4292.7
37.5°	3782.3	3786.5	3791.5	3680.0	3612.1	3576.9	3563.5	3971.7	4283.4	4724.3	4771.2
40°	3989.3	4011.9	4027.8	3966.7	3942.3	3944.0	3886.2	4418.4	4850.0	5284.1	5230.5
42.5°	4154.4	4180.4	4296.0	4213.9	4249.1	4319.5	4309.4	4772.1	5309.3	5713.2	5651.2
45°	4292.7	4293.5	4374.0	4406.6	4532.4	4665.6	4676.5	5149.2	5689.8	6100.4	5981.4
47.5°	4388.2	4371.4	4434.3	4567.6	4798.9	4955.6	5059.5	5575.8	6082.8	6447.4	6319.2
50°	4417.5	4441.0	4545.8	4715.1	5023.5	5270.7	5489.5	6116.3	6465.8	6786.8	6593.2
52.5°	4472.0	4482.1	4628.7	4850.0	5251.4	5580.8	5798.7	6674.5	6936.8	7134.6	6928.4
55°	4518.1	4546.6	4686.6	4921.2	5395.6	5832.2	6126.4	7183.2	7479.1	7517.6	7279.6
57.5°	4353.0	4380.7	4629.6	4941.3	5515.4	6035.0	6485.9	7677.7	8045.6	7980.2	7586.3
60°	4047.9	4079.8	4378.2	4886.0	5534.7	6261.3	6956.9	8334.7	8644.0	8565.2	7931.6
62.5°	3771.4	3773.1	4095.7	4648.9	5443.4	6416.4	7529.3	9184.6	9417.6	9279.3	8314.6
65°	3406.8	3403.5	3695.1	4267.5	5185.2	6368.6	7976.0	10222.1	10530.5	10138.3	8680.9
67.5°	2914.0	2904.0	3199.0	3729.5	4705.8	6123.0	8354.9	10927.8	11087.0	10765.2	8973.4
70°	2303.9	2293.0	2542.7	3069.1	4037.9	5562.4	8593.7	11229.5	11323.4	10987.3	9065.6
72.5°	1615.8	1609.1	1758.3	2174.8	3089.2	4679.9	8542.6	11078.6	11138.1	10755.1	8794.9
75°	956.3	953.7	1092.9	1330.9	1826.2	3487.3	7965.2	10525.5	10596.7	10248.9	8130.3
77.5°	368.8	341.9	533.9	647.8	1038.4	1633.4	6092.9	9532.4	9697.5	9370.6	7163.1
80°	120.7	124.9	374.6	457.6	602.6	731.6	3260.1	7736.4	8127.7	7918.2	5425.8
82.5°	88.0	90.5	233.0	309.3	398.9	496.1	1233.7	4205.5	4617.8	4546.6	2663.4
85°	57.8	57.8	79.6	109.8	149.2	198.6	346.1	2134.6	2616.5	2538.6	1154.0
87.5°	31.0	31.8	46.1	66.2	89.7	104.8	110.6	436.6	595.9	518.8	230.5
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°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
2.5°	1651.0	1667.8	1655.2	1645.2	1628.4	1619.2	1621.7	1613.3	1605.8	1625.0	1615.8
5°	1697.1	1708.0	1675.3	1656.1	1629.2	1606.6	1604.9	1586.5	1577.3	1584.8	1588.2
7.5°	1736.5	1744.9	1701.3	1666.9	1640.1	1613.3	1594.9	1563.0	1550.5	1563.9	1568.9
10°	1804.4	1794.3	1741.5	1703.0	1663.6	1630.9	1599.9	1569.7	1547.1	1547.9	1549.6
12.5°	1881.5	1853.8	1806.9	1752.4	1709.7	1677.0	1634.3	1583.1	1547.1	1546.3	1552.1
15°	1988.8	1955.3	1914.2	1849.7	1801.9	1754.9	1686.2	1597.4	1540.4	1520.3	1511.9
17.5°	2122.9	2078.4	2064.2	1989.6	1910.8	1821.2	1711.4	1603.3	1502.7	1465.0	1466.6
20°	2283.8	2269.5	2251.1	2128.7	2015.6	1864.7	1723.1	1576.4	1441.5	1375.3	1368.6
22.5°	2510.1	2503.4	2416.2	2248.6	2075.1	1893.2	1713.0	1519.4	1356.9	1274.7	1258.0
25°	2771.5	2717.1	2555.3	2350.0	2122.0	1900.8	1672.8	1436.5	1257.1	1154.9	1149.9
27.5°	3031.4	2935.0	2697.0	2413.7	2126.2	1871.4	1588.2	1323.3	1158.2	1062.7	1050.1
30°	3333.9	3204.0	2840.3	2459.8	2117.0	1797.7	1470.0	1228.6	1092.9	998.2	983.9
32.5°	3716.1	3495.6	2981.9	2480.7	2055.0	1698.8	1344.3	1187.6	1045.1	936.1	919.4
35°	4173.7	3880.3	3173.8	2479.9	1973.7	1545.4	1280.6	1164.1	1011.6	877.5	852.3
37.5°	4612.0	4311.1	3390.9	2469.8	1843.8	1385.4	1236.2	1126.4	988.9	865.7	851.5
40°	5015.9	4664.8	3654.0	2451.4	1691.3	1288.1	1186.7	1067.7	962.1	876.6	860.7
42.5°	5392.2	4998.3	3889.5	2405.3	1523.6	1219.4	1119.7	1028.3	933.6	825.5	801.2
45°	5732.5	5279.9	4052.1	2296.4	1340.1	1143.1	1044.3	975.5	881.7	771.0	751.8
47.5°	6016.6	5536.4	4167.0	2149.7	1191.8	1062.7	957.1	900.9	818.0	716.6	691.4
50°	6265.5	5790.3	4244.9	1899.9	1061.9	980.6	870.8	809.6	735.0	662.9	645.3
52.5°	6508.6	6047.6	4335.4	1566.4	939.5	885.0	771.9	704.0	647.8	614.3	602.6
55°	6829.5	6375.3	4335.4	1148.2	827.2	808.8	686.4	596.7	557.3	533.9	539.7
57.5°	7119.5	6576.4	4152.7	854.8	756.0	730.0	593.4	505.4	463.5	469.3	486.9
60°	7440.5	6768.4	3643.2	707.3	695.6	621.9	506.2	444.2	422.4	401.4	398.9
62.5°	7660.9	6796.0	2988.6	624.4	635.3	548.9	473.5	409.0	384.7	354.5	347.8
65°	7907.3	6647.7	2248.6	585.8	581.6	521.3	466.8	404.0	370.4	321.0	312.6
67.5°	7816.8	6209.4	1596.6	542.2	543.9	524.6	477.7	403.1	362.9	309.3	303.4
70°	7423.7	5499.5	1000.7	522.1	536.4	531.3	497.0	424.1	360.4	280.8	272.4
72.5°	6869.8	4586.0	559.8	484.4	532.2	535.5	520.5	443.3	330.2	229.6	224.6
75°	5961.3	3499.8	400.6	448.4	512.1	534.7	510.4	426.6	302.5	216.2	209.5
77.5°	4660.6	2051.6	352.8	413.2	474.4	477.7	506.2	443.3	314.3	219.6	212.0
80°	2520.1	849.0	296.7	363.7	389.7	451.7	491.1	414.0	290.8	176.8	165.9
82.5°	1022.5	239.7	172.6	231.3	316.0	372.9	437.5	366.2	266.5	147.5	139.1
85°	261.5	82.1	80.5	118.2	189.4	279.1	355.3	313.4	217.1	65.4	4.2
87.5°	32.7	26.8	31.8	65.4	123.2	200.3	260.6	226.3	154.2	0.8	0.0
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)