

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: P286956

Luminaire Tested: **PRV-C40-D-UNV-T3-BZ-7030**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286956
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16832 lumens
Efficiency: N/A
Efficacy: 128.5 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

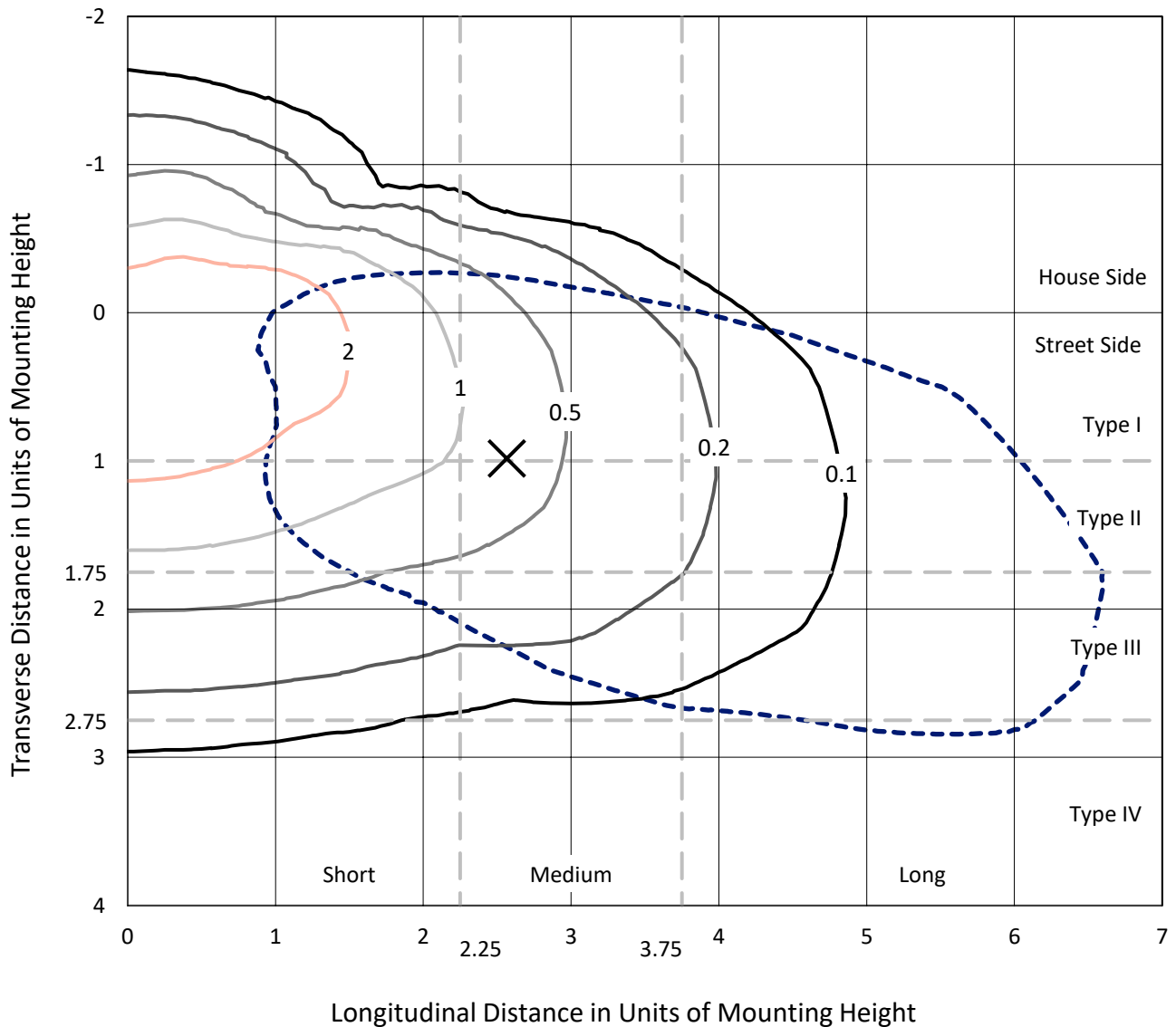
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P286956
 CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

Iso-Footcandle Lines of Horizontal Illumination

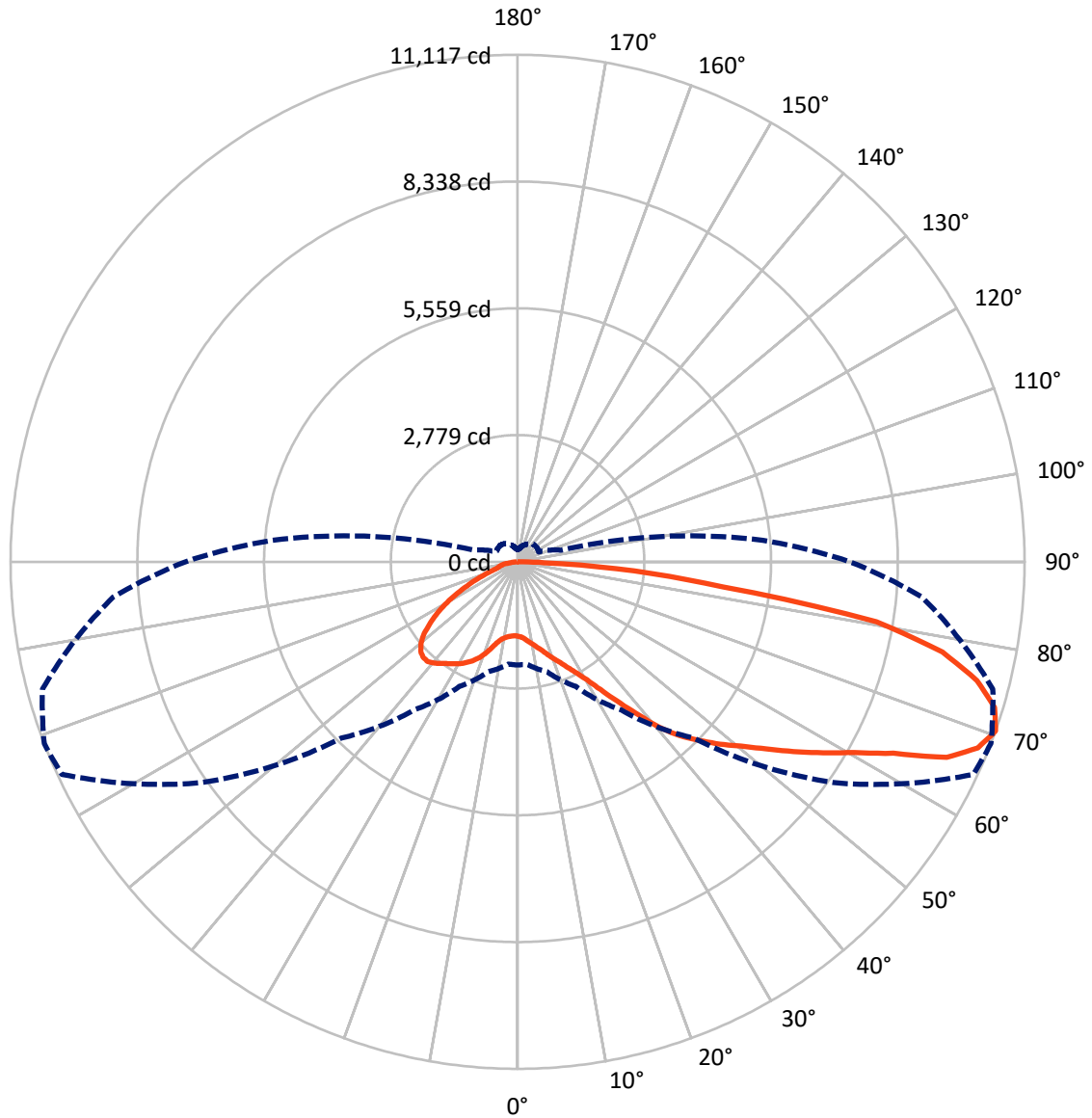
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P286956
CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P286956
 CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

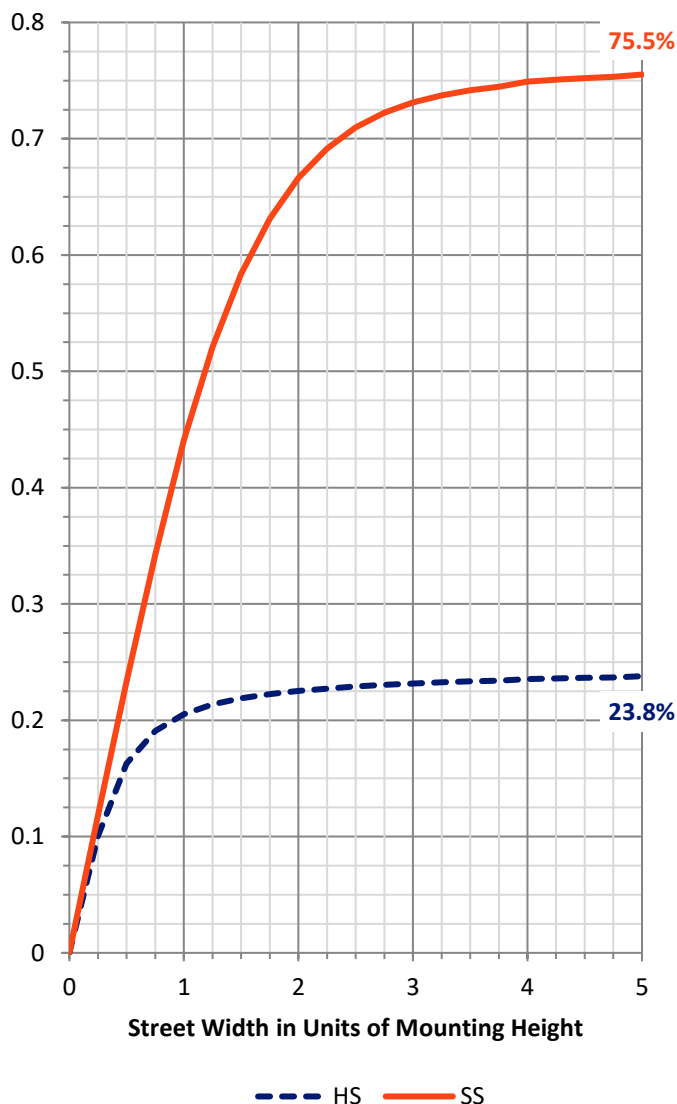
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.6	0.0	4082.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12749.4	0.0	12749.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	16832.0	0.0	16832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	1.0
10°-20°	532.3	3.2
20°-30°	1001.0	5.9
30°-40°	1713.8	10.2
40°-50°	2617.5	15.6
50°-60°	3384.9	20.1
60°-70°	3850.3	22.9
70°-80°	2933.8	17.4
80°-90°	636.5	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°	16832.0	100.0
0°-180°	16832.0	100.0

Coefficient of Utilization

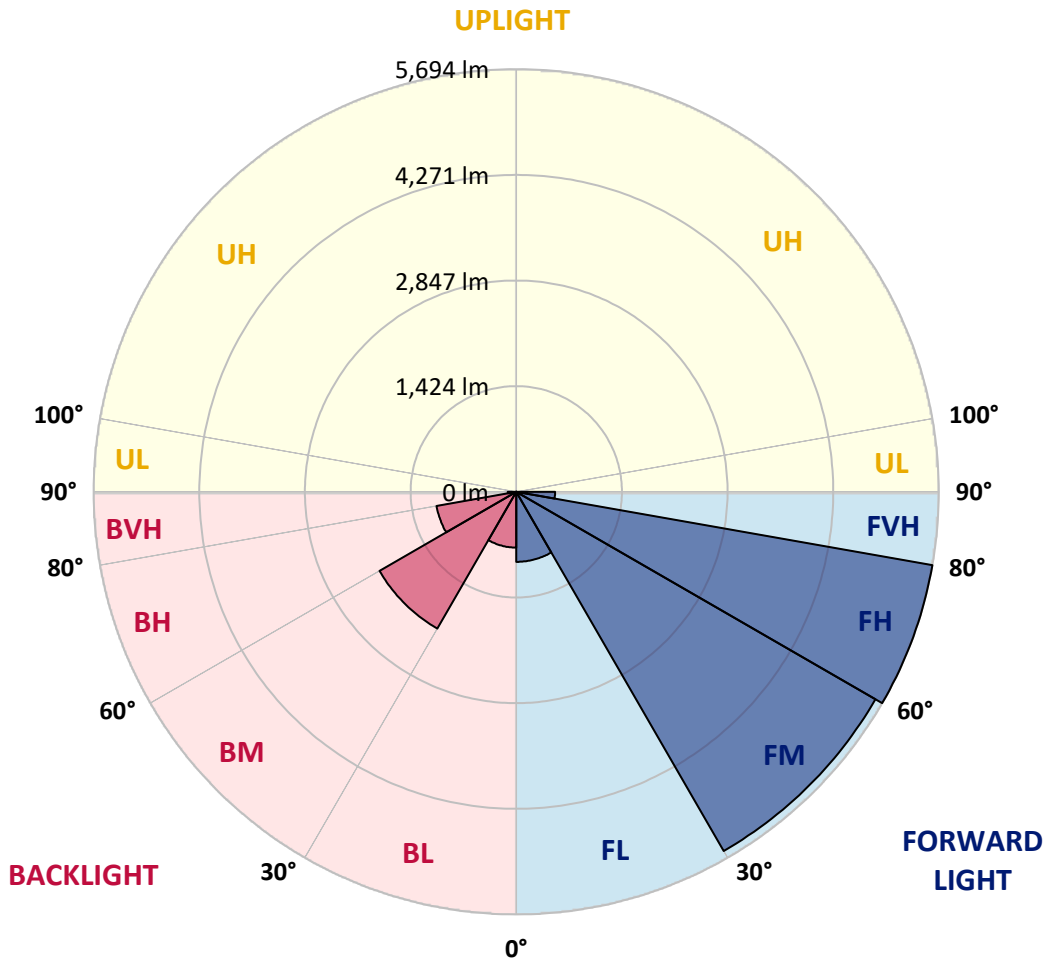


REPORT NUMBER: P286956
 CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.6	5.6			
FM (30°-60°)	5588.7	33.2			
FH (60°-80°)	5694.0	33.8			G3/7500
FVH (80°-90°)	523.1	3.1			G4/750
BL (0°-30°)	751.6	4.5	B2/1000		
BM (30°-60°)	2127.5	12.6	B2/2500		
BH (60°-80°)	1090.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	113.3	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





REPORT NUMBER: P286956

CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1734.5	1723.0	1723.8	1694.2	1695.0	1683.5	1676.9	1667.1	1650.6	1656.4	1629.2
5°	1818.5	1802.8	1807.8	1772.4	1770.7	1755.1	1738.6	1709.0	1701.6	1698.3	1674.5
7.5°	1873.6	1870.3	1867.8	1849.7	1848.1	1830.0	1814.3	1782.3	1769.9	1755.1	1724.7
10°	1927.1	1929.5	1932.0	1900.7	1920.5	1899.1	1881.8	1855.5	1839.0	1834.1	1787.2
12.5°	1954.2	1956.7	1969.9	1960.8	1972.3	1983.8	1966.6	1939.4	1923.0	1923.0	1868.7
15°	1978.1	1984.7	2006.9	2014.3	2034.9	2044.7	2057.9	2040.6	2015.9	2011.8	1966.6
17.5°	2018.4	2015.1	2034.9	2067.8	2091.6	2110.6	2147.6	2142.7	2141.0	2130.3	2097.4
20°	2072.7	2067.0	2086.7	2100.7	2137.7	2194.5	2244.7	2270.2	2268.5	2262.8	2234.0
22.5°	2132.0	2126.2	2127.0	2137.7	2187.9	2273.5	2350.8	2399.4	2400.2	2403.5	2429.8
25°	2233.2	2209.3	2201.9	2210.9	2271.0	2375.5	2475.1	2554.9	2570.5	2589.5	2673.4
27.5°	2478.4	2489.9	2389.5	2324.5	2374.7	2503.1	2619.9	2737.6	2762.2	2819.0	2986.9
30°	2859.3	2840.4	2789.4	2647.9	2533.5	2647.9	2812.4	2958.1	3005.0	3149.8	3301.2
32.5°	3147.3	3148.2	3123.5	3003.3	2845.4	2817.4	3003.3	3244.4	3337.4	3606.5	3742.2
35°	3439.4	3427.1	3448.5	3334.9	3195.1	3095.5	3211.5	3529.9	3743.1	4141.3	4214.5
37.5°	3713.4	3717.6	3722.5	3613.1	3546.4	3511.8	3498.7	3899.4	4205.5	4638.3	4684.4
40°	3916.7	3938.9	3954.5	3894.5	3870.6	3872.2	3815.5	4338.0	4761.7	5188.0	5135.3
42.5°	4078.8	4104.3	4217.8	4137.2	4171.8	4240.9	4231.0	4685.2	5212.6	5609.2	5548.4
45°	4214.5	4215.4	4294.4	4326.5	4449.9	4580.7	4591.4	5055.5	5586.2	5989.4	5872.6
47.5°	4308.3	4291.9	4353.6	4484.4	4711.5	4865.4	4967.4	5474.3	5972.1	6330.0	6204.2
50°	4337.1	4360.2	4463.0	4629.3	4932.1	5174.8	5389.5	6005.0	6348.1	6663.3	6473.2
52.5°	4390.6	4400.5	4544.5	4761.7	5155.9	5479.2	5693.2	6553.0	6810.6	7004.8	6802.4
55°	4435.9	4463.9	4601.3	4831.7	5297.4	5726.1	6014.9	7052.5	7343.0	7380.8	7147.1
57.5°	4273.8	4300.9	4545.3	4851.4	5415.1	5925.2	6367.9	7538.0	7899.2	7835.0	7448.3
60°	3974.3	4005.5	4298.5	4797.1	5434.0	6147.4	6830.3	8183.1	8486.7	8409.3	7787.3
62.5°	3702.7	3704.4	4021.2	4564.2	5344.3	6299.6	7392.3	9017.4	9246.2	9110.4	8163.3
65°	3344.8	3341.5	3627.9	4189.9	5090.9	6252.7	7830.9	10036.1	10338.9	9953.8	8522.9
67.5°	2861.0	2851.1	3140.7	3661.6	4620.2	6011.6	8202.8	10728.9	10885.2	10569.3	8810.1
70°	2262.0	2251.3	2496.5	3013.2	3964.4	5461.1	8437.3	11025.1	11117.3	10787.3	8900.6
72.5°	1586.4	1579.8	1726.3	2135.2	3033.0	4594.7	8387.1	10877.0	10935.4	10559.4	8634.8
75°	938.9	936.4	1073.0	1306.7	1793.0	3423.8	7820.2	10333.9	10403.9	10062.4	7982.3
77.5°	362.0	335.7	524.1	636.0	1019.5	1603.7	5982.0	9358.9	9521.0	9200.1	7032.7
80°	118.5	122.6	367.8	449.3	591.6	718.3	3200.8	7595.6	7979.8	7774.1	5327.0
82.5°	86.4	88.9	228.7	303.6	391.7	487.1	1211.2	4129.0	4533.8	4463.9	2615.0
85°	56.8	56.8	78.2	107.8	146.5	195.0	339.8	2095.8	2568.9	2492.4	1133.0
87.5°	30.4	31.3	45.3	65.0	88.0	102.9	108.6	428.7	585.0	509.3	226.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P286956

CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1621.0	1637.4	1625.1	1615.2	1598.8	1589.7	1592.2	1584.0	1576.5	1595.5	1586.4
5°	1666.2	1676.9	1644.8	1625.9	1599.6	1577.4	1575.7	1557.6	1548.6	1556.0	1559.3
7.5°	1704.9	1713.1	1670.3	1636.6	1610.3	1584.0	1565.8	1534.6	1522.2	1535.4	1540.3
10°	1771.6	1761.7	1709.8	1672.0	1633.3	1601.2	1570.8	1541.2	1518.9	1519.8	1521.4
12.5°	1847.3	1820.1	1774.0	1720.5	1678.6	1646.5	1604.5	1554.3	1518.9	1518.1	1523.9
15°	1952.6	1919.7	1879.3	1816.0	1769.1	1723.0	1655.5	1568.3	1512.4	1492.6	1484.4
17.5°	2084.2	2040.6	2026.6	1953.4	1876.1	1788.0	1680.2	1574.1	1475.3	1438.3	1440.0
20°	2242.2	2228.2	2210.1	2090.0	1978.9	1830.8	1691.7	1547.7	1415.3	1350.3	1343.7
22.5°	2464.4	2457.8	2372.2	2207.7	2037.3	1858.8	1681.9	1491.8	1332.2	1251.5	1235.1
25°	2721.1	2667.6	2508.8	2307.2	2083.4	1866.2	1642.4	1410.3	1234.2	1133.9	1128.9
27.5°	2976.2	2881.6	2647.9	2369.8	2087.5	1837.4	1559.3	1299.3	1137.2	1043.4	1031.0
30°	3273.2	3145.7	2788.6	2415.0	2078.5	1765.0	1443.2	1206.3	1073.0	980.0	966.0
32.5°	3648.4	3432.0	2927.6	2435.6	2017.6	1667.9	1319.8	1166.0	1026.1	919.1	902.6
35°	4097.7	3809.7	3116.1	2434.8	1937.8	1517.3	1257.3	1142.9	993.2	861.5	836.8
37.5°	4528.0	4232.6	3329.2	2424.9	1810.2	1360.1	1213.7	1105.9	970.9	850.0	836.0
40°	4924.6	4579.9	3587.5	2406.8	1660.5	1264.7	1165.1	1048.3	944.6	860.7	845.0
42.5°	5294.1	4907.4	3818.8	2361.5	1495.9	1197.2	1099.3	1009.6	916.6	810.5	786.6
45°	5628.2	5183.8	3978.4	2254.6	1315.7	1122.3	1025.2	957.8	865.6	757.0	738.1
47.5°	5907.1	5435.6	4091.1	2110.6	1170.1	1043.4	939.7	884.5	803.1	703.5	678.8
50°	6151.5	5684.9	4167.6	1865.4	1042.5	962.7	854.9	794.9	721.6	650.9	633.6
52.5°	6390.1	5937.6	4256.5	1537.9	922.4	868.9	757.8	691.2	636.0	603.1	591.6
55°	6705.3	6259.3	4256.5	1127.3	812.1	794.0	673.9	585.9	547.2	524.1	529.9
57.5°	6990.0	6456.8	4077.1	839.3	742.2	716.7	582.6	496.2	455.0	460.8	478.1
60°	7305.1	6645.2	3576.9	694.5	683.0	610.5	497.0	436.1	414.7	394.1	391.7
62.5°	7521.5	6672.3	2934.2	613.0	623.7	539.0	464.9	401.5	377.7	348.1	341.5
65°	7763.4	6526.7	2207.7	575.2	571.0	511.8	458.3	396.6	363.7	315.1	306.9
67.5°	7674.6	6096.4	1567.5	532.4	534.0	515.1	469.0	395.8	356.3	303.6	297.9
70°	7288.6	5399.4	982.5	512.6	526.6	521.7	487.9	416.4	353.8	275.6	267.4
72.5°	6744.8	4502.5	549.7	475.6	522.5	525.8	511.0	435.3	324.2	225.5	220.5
75°	5852.8	3436.1	393.3	440.2	502.8	525.0	501.1	418.8	297.0	212.3	205.7
77.5°	4575.8	2014.3	346.4	405.7	465.7	469.0	497.0	435.3	308.6	215.6	208.2
80°	2474.3	833.5	291.3	357.1	382.6	443.5	482.2	406.5	285.5	173.6	162.9
82.5°	1003.9	235.3	169.5	227.1	310.2	366.2	429.5	359.6	261.7	144.8	136.6
85°	256.7	80.6	79.0	116.0	186.0	274.0	348.9	307.7	213.1	64.2	4.1
87.5°	32.1	26.3	31.3	64.2	121.0	196.7	255.9	222.2	151.4	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)