

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: McGRAW-EDISON

Report Number: P200104

Luminaire Tested: **GPC-AF-02-LED-E1-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-RW  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12989.4 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

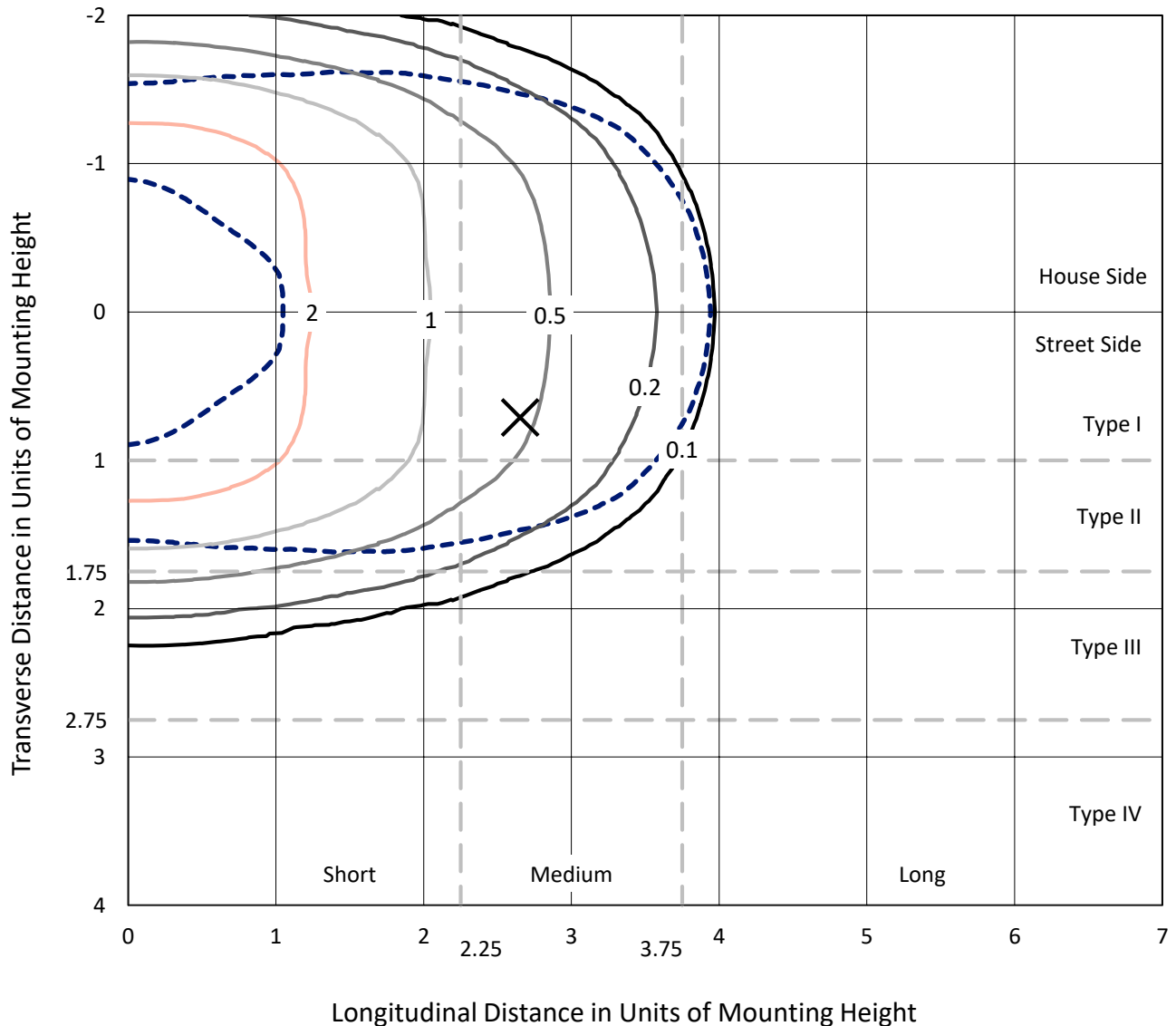
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P200104  
 CATALOG NUMBER: GPC-AF-02-LED-E1-RW

### Iso-Footcandle Lines of Horizontal Illumination

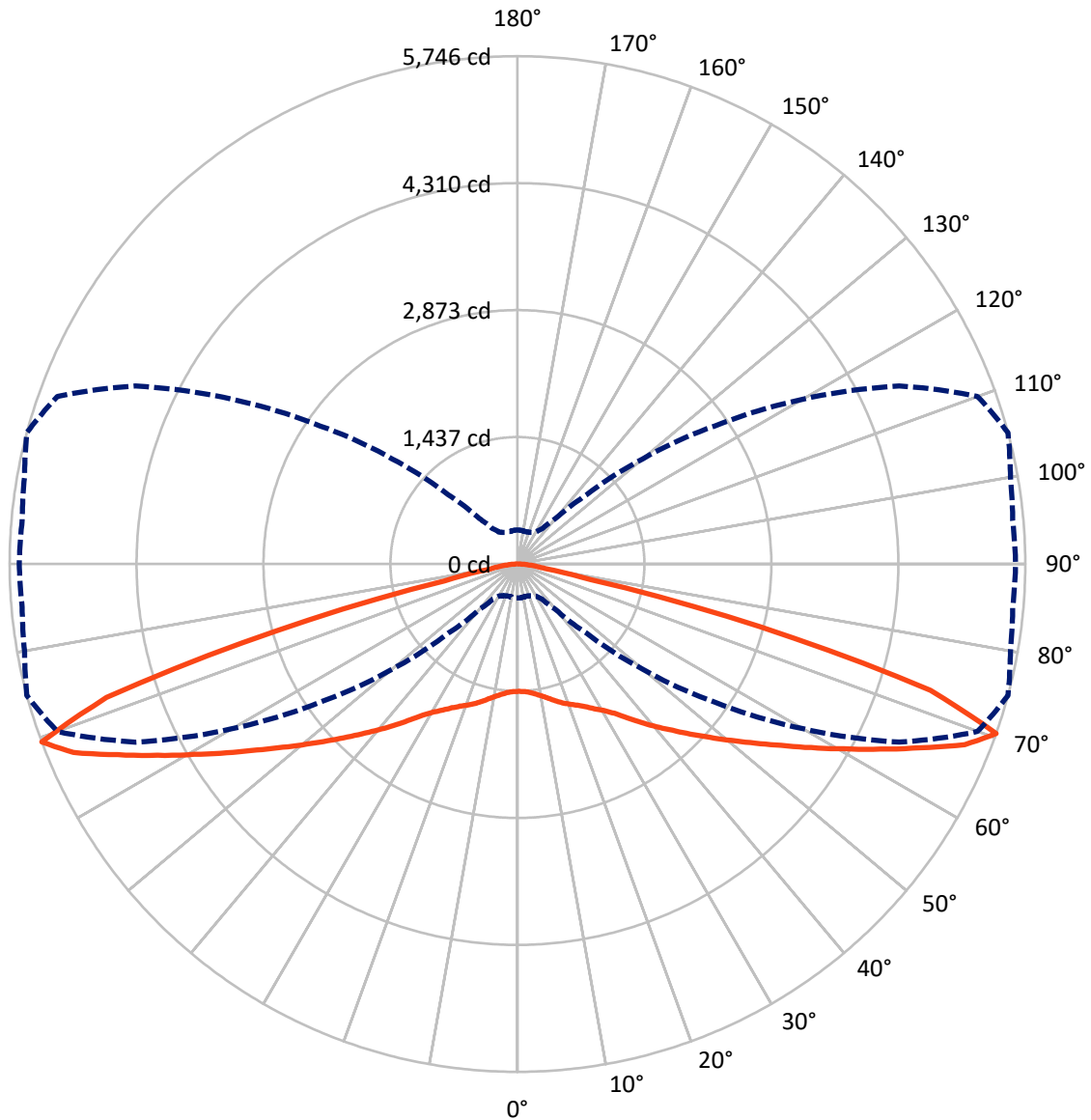
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P200104  
CATALOG NUMBER: GPC-AF-02-LED-E1-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P200104

CATALOG NUMBER: GPC-AF-02-LED-E1-RW

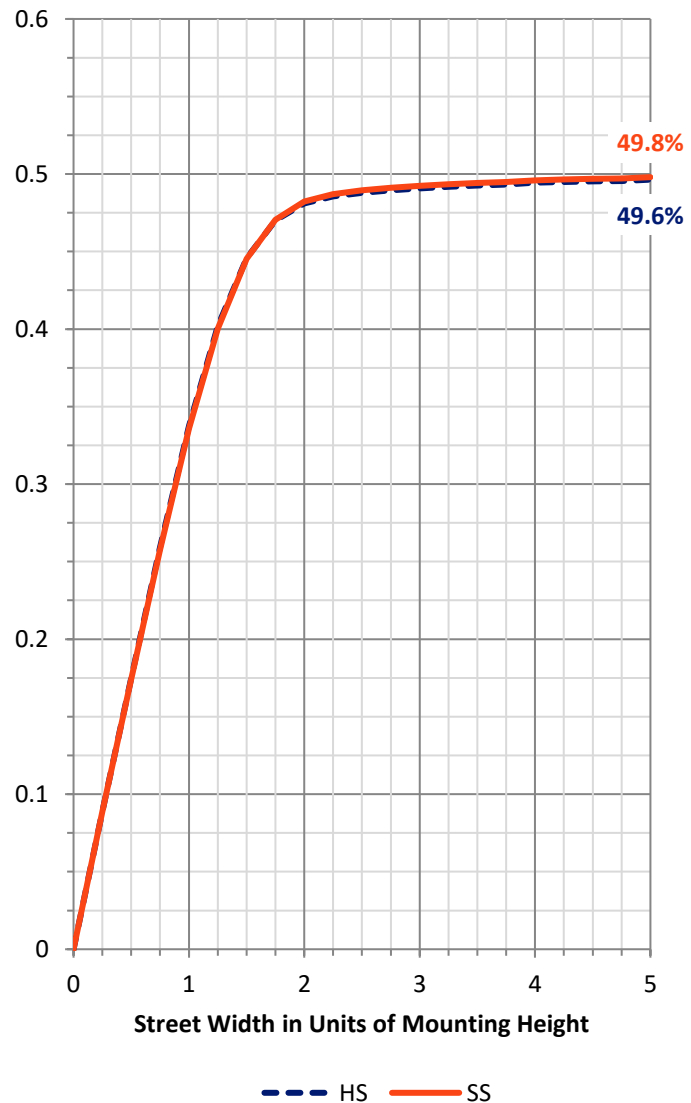
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6494.7	0.0	6494.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6494.7	0.0	6494.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12989.4	0.0	12989.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	1.1
10°-20°	429.4	3.3
20°-30°	808.1	6.2
30°-40°	1431.0	11.0
40°-50°	2393.2	18.4
50°-60°	3334.9	25.7
60°-70°	3092.6	23.8
70°-80°	1232.5	9.5
80°-90°	129.5	1.0
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°	12989.4	100.0
0°-180°	12989.4	100.0



REPORT NUMBER: P200104

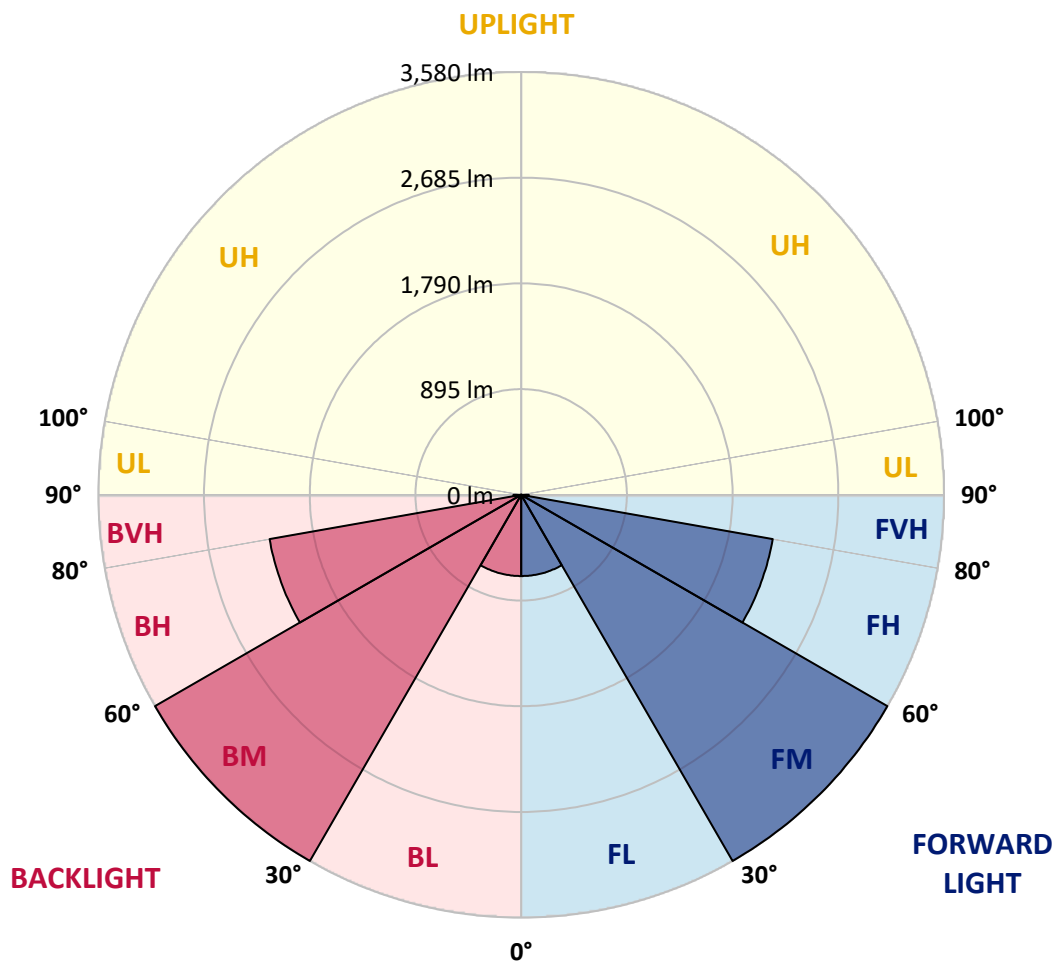
CATALOG NUMBER: GPC-AF-02-LED-E1-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.8	5.3			
FM (30°-60°)	3579.6	27.6			
FH (60°-80°)	2162.5	16.6			G2/5000
FVH (80°-90°)	64.8	0.5			G1/100
BL (0°-30°)	687.8	5.3	B2/1000		
BM (30°-60°)	3579.6	27.6	B3/5000		
BH (60°-80°)	2162.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	64.8	0.5			G1/100
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 Medium





REPORT NUMBER: P200104

CATALOG NUMBER: GPC-AF-02-LED-E1-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1438.4	1437.1	1438.4	1437.8	1439.0	1439.0	1440.2	1442.7	1442.7	1444.5	1443.9
5°	1424.3	1423.6	1425.5	1427.3	1429.2	1432.8	1436.5	1442.1	1446.4	1449.4	1452.5
7.5°	1396.6	1396.6	1399.1	1403.4	1407.7	1415.7	1424.3	1435.3	1446.4	1455.6	1463.5
10°	1373.9	1375.2	1378.2	1385.6	1393.0	1405.2	1416.9	1432.8	1448.2	1463.5	1475.8
12.5°	1360.4	1362.3	1367.8	1378.8	1391.1	1407.7	1425.5	1445.7	1462.9	1481.3	1493.6
15°	1364.7	1365.9	1373.9	1387.4	1403.4	1424.3	1448.2	1472.1	1492.4	1512.0	1528.6
17.5°	1388.7	1390.5	1399.7	1415.0	1431.6	1456.2	1481.9	1509.0	1534.1	1556.2	1576.5
20°	1431.6	1433.5	1445.1	1461.7	1481.3	1506.5	1532.3	1560.5	1588.7	1612.1	1634.8
22.5°	1492.4	1495.5	1506.5	1523.1	1545.2	1572.2	1602.9	1632.9	1660.0	1681.5	1701.8
25°	1572.2	1578.9	1589.4	1607.8	1631.1	1655.6	1688.9	1719.6	1745.4	1765.6	1780.3
27.5°	1685.2	1694.4	1702.4	1720.2	1742.9	1766.2	1799.4	1826.4	1850.9	1870.6	1881.6
30°	1835.0	1844.2	1852.2	1869.3	1890.2	1912.3	1943.6	1967.5	1982.9	1998.2	1997.6
32.5°	2016.6	2026.5	2029.5	2047.9	2069.4	2093.4	2121.6	2135.2	2147.5	2149.3	2138.3
35°	2219.9	2224.8	2237.1	2261.6	2286.2	2305.8	2332.8	2339.6	2339.6	2330.4	2305.8
37.5°	2442.7	2445.8	2463.0	2490.6	2515.7	2536.0	2554.4	2567.9	2561.2	2541.5	2500.4
40°	2687.1	2692.6	2717.2	2741.7	2769.9	2789.0	2808.6	2811.1	2804.3	2775.5	2719.6
42.5°	2920.3	2925.2	2949.8	2988.4	3025.3	3051.7	3070.1	3073.8	3052.3	3025.9	2956.5
45°	3121.1	3134.0	3165.9	3211.3	3264.7	3302.2	3327.4	3337.8	3318.8	3284.4	3204.0
47.5°	3280.1	3293.0	3338.4	3392.4	3458.7	3519.5	3561.3	3583.4	3578.5	3552.6	3464.8
50°	3396.7	3409.0	3458.1	3524.4	3601.8	3677.3	3748.5	3801.3	3819.7	3808.0	3727.6
52.5°	3410.2	3430.5	3488.2	3577.3	3677.9	3781.0	3882.3	3971.9	4032.8	4042.0	3982.3
55°	3221.8	3242.0	3321.8	3453.8	3603.7	3771.8	3933.9	4084.9	4204.6	4266.0	4234.7
57.5°	2777.3	2813.5	2897.6	3052.3	3272.7	3524.4	3782.9	4051.2	4294.9	4457.5	4488.8
60°	2128.4	2171.4	2256.1	2420.6	2666.2	2966.4	3311.4	3708.0	4138.3	4504.3	4722.8
62.5°	1365.3	1405.8	1494.8	1637.8	1838.0	2163.4	2533.5	3004.4	3582.8	4160.4	4681.0
65°	701.6	723.8	770.5	857.0	1012.9	1256.1	1588.1	2057.8	2719.0	3431.7	4184.4
67.5°	444.5	448.8	459.2	471.5	511.4	595.5	750.2	1043.0	1586.9	2330.4	3211.3
70°	384.3	384.3	379.4	377.6	382.5	394.1	418.1	486.2	669.7	1106.2	1852.2
72.5°	351.8	348.1	339.5	332.8	331.5	331.5	336.4	346.9	376.3	450.6	725.1
75°	324.2	313.7	302.1	294.1	291.0	288.0	287.3	289.2	295.3	307.0	346.3
77.5°	290.4	276.9	263.4	255.4	251.7	247.5	243.8	239.5	236.3	240.1	257.3
80°	249.9	234.5	224.0	219.1	215.4	209.3	201.3	194.0	187.2	186.0	196.4
82.5°	201.3	183.5	184.1	186.0	179.2	170.6	162.0	154.1	142.4	136.3	142.4
85°	162.6	153.4	149.1	160.8	151.0	138.1	124.6	110.5	92.1	77.3	84.1
87.5°	63.2	63.2	94.5	145.5	130.7	106.8	91.5	77.9	48.5	37.4	38.1
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: P200104

CATALOG NUMBER: GPC-AF-02-LED-E1-RW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1443.3	1444.5	1443.9	1443.3	1443.3	1442.7	1443.3	1443.3
5°	1454.3	1457.4	1457.4	1458.6	1458.6	1459.2	1459.9	1459.2
7.5°	1470.9	1476.4	1480.1	1484.4	1485.0	1485.6	1486.9	1485.6
10°	1487.5	1498.5	1506.5	1514.5	1518.2	1519.4	1520.6	1520.6
12.5°	1508.3	1523.7	1537.8	1551.9	1558.7	1562.4	1562.4	1564.8
15°	1542.7	1558.1	1574.6	1593.7	1605.3	1611.5	1613.3	1613.3
17.5°	1591.2	1604.7	1618.8	1637.2	1652.0	1660.0	1661.9	1661.3
20°	1647.7	1660.7	1668.6	1680.3	1693.2	1702.4	1704.8	1704.8
22.5°	1712.2	1719.6	1720.8	1724.5	1734.9	1747.2	1752.7	1754.0
25°	1783.4	1785.3	1780.3	1780.3	1787.1	1798.8	1804.3	1804.9
27.5°	1875.5	1866.3	1854.0	1849.7	1854.0	1867.5	1874.3	1876.7
30°	1990.3	1968.2	1939.9	1924.6	1922.1	1939.9	1952.2	1954.0
32.5°	2121.6	2089.7	2052.2	2020.9	2013.0	2024.0	2038.7	2038.1
35°	2277.6	2239.5	2194.1	2154.2	2135.8	2146.9	2167.7	2170.2
37.5°	2457.4	2407.7	2355.5	2305.2	2276.4	2279.4	2301.5	2308.9
40°	2658.2	2593.7	2528.0	2460.5	2419.4	2411.4	2438.4	2442.7
42.5°	2873.1	2790.2	2707.3	2623.9	2571.0	2558.7	2590.0	2588.2
45°	3102.1	2996.4	2899.5	2807.4	2744.8	2726.4	2752.1	2752.1
47.5°	3348.2	3218.1	3102.7	2998.3	2930.1	2903.7	2928.3	2930.1
50°	3609.2	3471.0	3335.3	3219.3	3137.7	3103.9	3135.9	3140.8
52.5°	3868.8	3734.4	3597.5	3464.8	3366.0	3324.9	3361.7	3377.7
55°	4132.2	4000.1	3869.4	3739.9	3622.7	3574.2	3613.5	3633.7
57.5°	4410.2	4288.1	4163.5	4032.8	3919.7	3844.2	3886.0	3913.0
60°	4736.3	4631.9	4502.4	4358.1	4243.9	4167.2	4191.1	4215.1
62.5°	4994.1	5034.7	4924.7	4757.7	4611.1	4512.8	4536.2	4561.3
65°	4869.5	5285.1	5382.7	5213.9	5010.7	4857.8	4848.0	4860.9
67.5°	4070.2	4877.4	5466.2	5627.0	5457.0	5244.6	5205.3	5224.3
70°	2722.7	3728.2	4767.0	5540.5	5746.1	5663.9	5625.2	5636.9
72.5°	1307.6	2171.4	3234.1	4262.3	4888.5	5175.8	5267.9	5312.7
75°	478.2	861.9	1558.7	2348.8	2835.6	3282.5	3574.2	3693.3
77.5°	288.6	348.1	497.9	749.6	849.0	950.3	911.0	930.7
80°	213.6	241.3	273.2	307.0	318.0	318.0	305.8	295.9
82.5°	149.8	167.6	182.9	201.3	206.2	197.0	162.0	128.9
85°	96.4	104.3	111.1	122.8	119.7	114.2	76.7	68.1
87.5°	44.2	50.3	52.8	58.3	55.9	53.4	38.1	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)