

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SHAPER

Report Number: 16786

Luminaire Tested: **697-HID-100W-120HPF-MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 16786
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 697-HID-100W-120HPF-MW
Description: WALL MOUNT HID LUMINAIRE WITH TEXTURED SPECULAR REFLECTORS AND CLEAR FLAT GLASS LENS
Light Source: ONE VENTURE 100 WATT MH LAMP

MH100W/U. LUMEN RATING = 8100 LMS.

Ballast/Driver: -

Summary

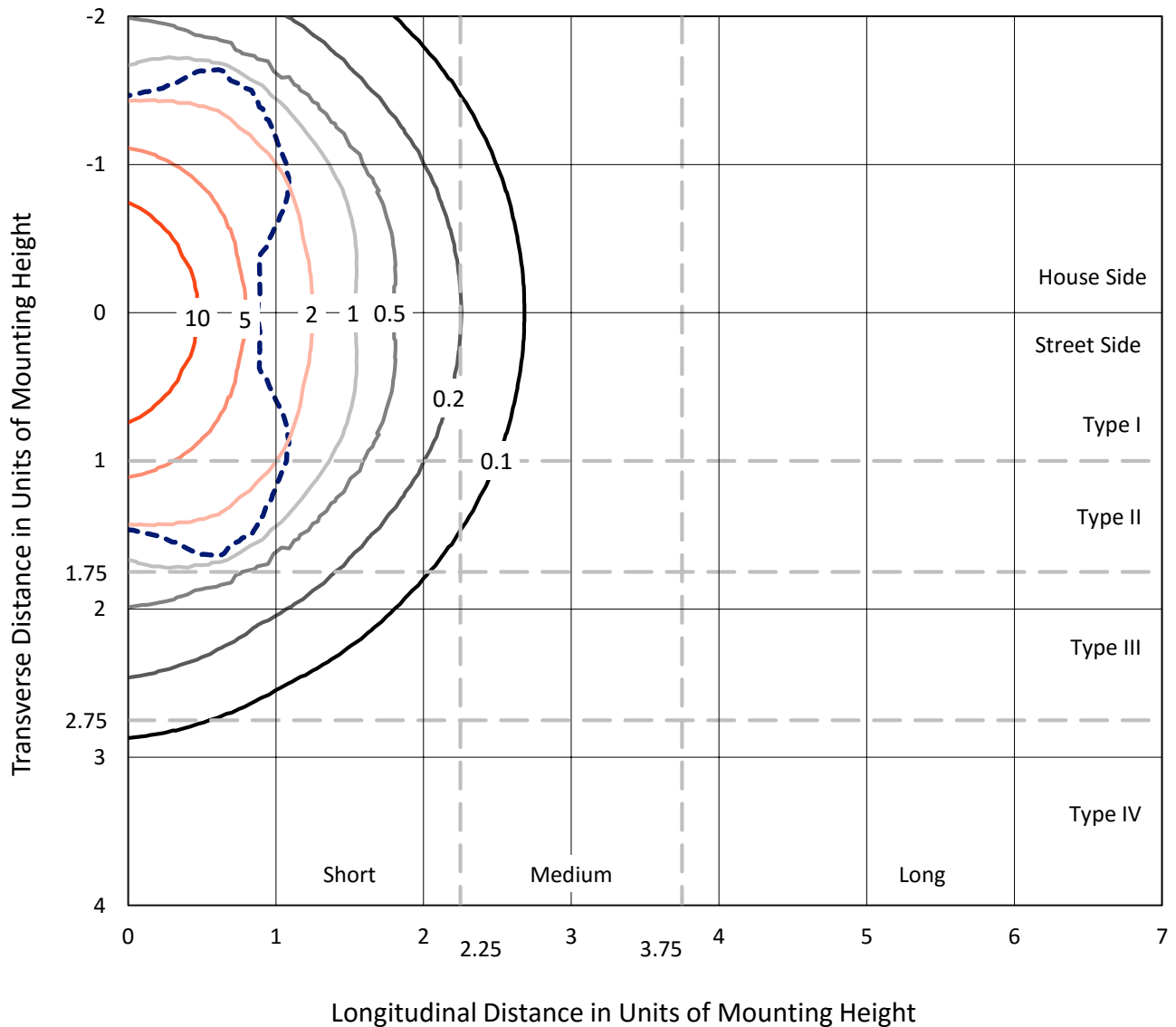
Lumens per Lamp: 8100 (1 lamp)
Luminaire Lumens: 5736 lumens
Efficiency: 70.8%
Efficacy: 52.1 lumens/watt
Luminous Opening: Rectangular (W 0.63' x L: 0.65' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 110
Input Voltage (V): NR
Input Current (A_{in}): 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

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Iso-Footcandle Lines of Horizontal Illumination

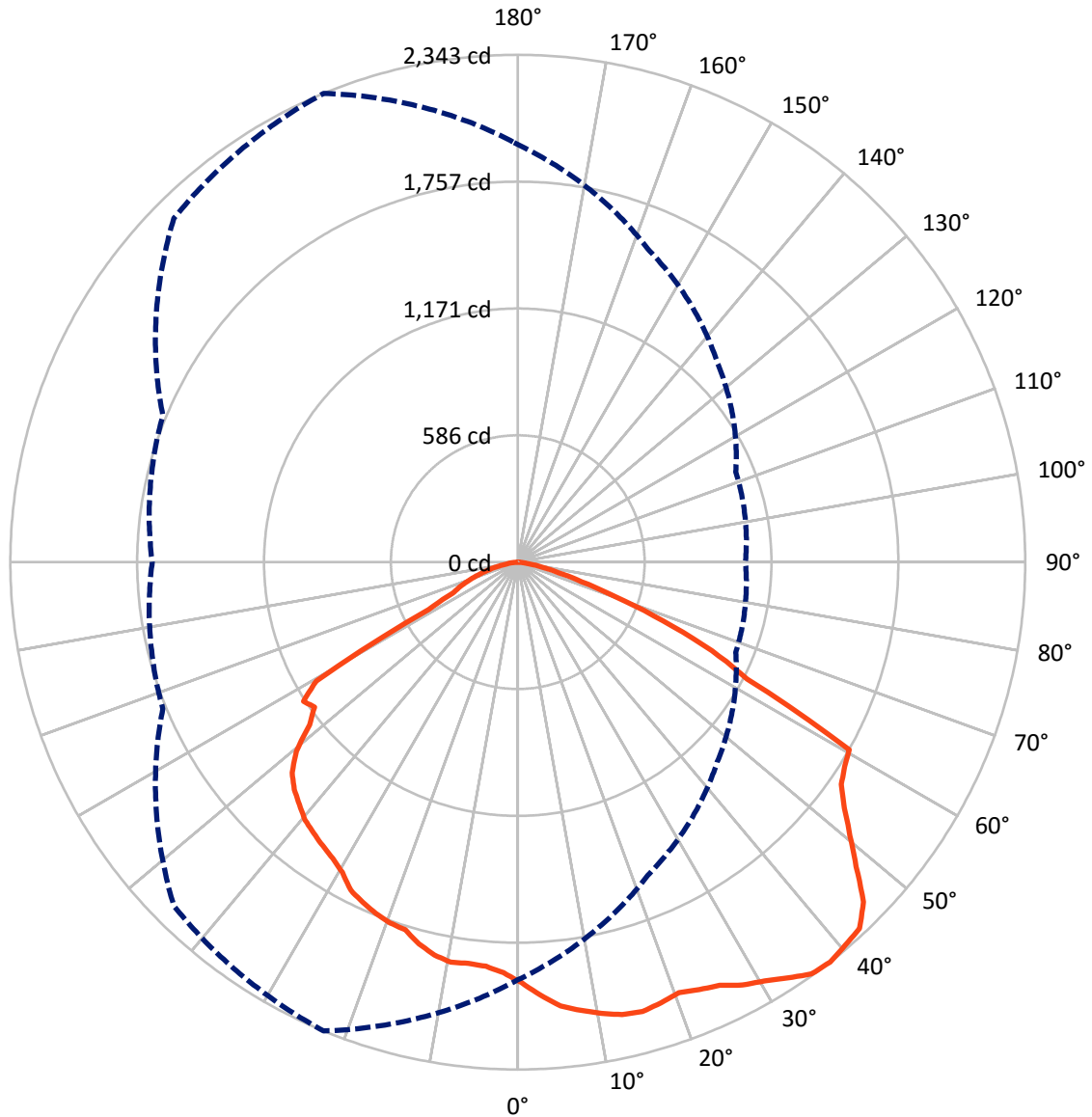
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 202.5-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

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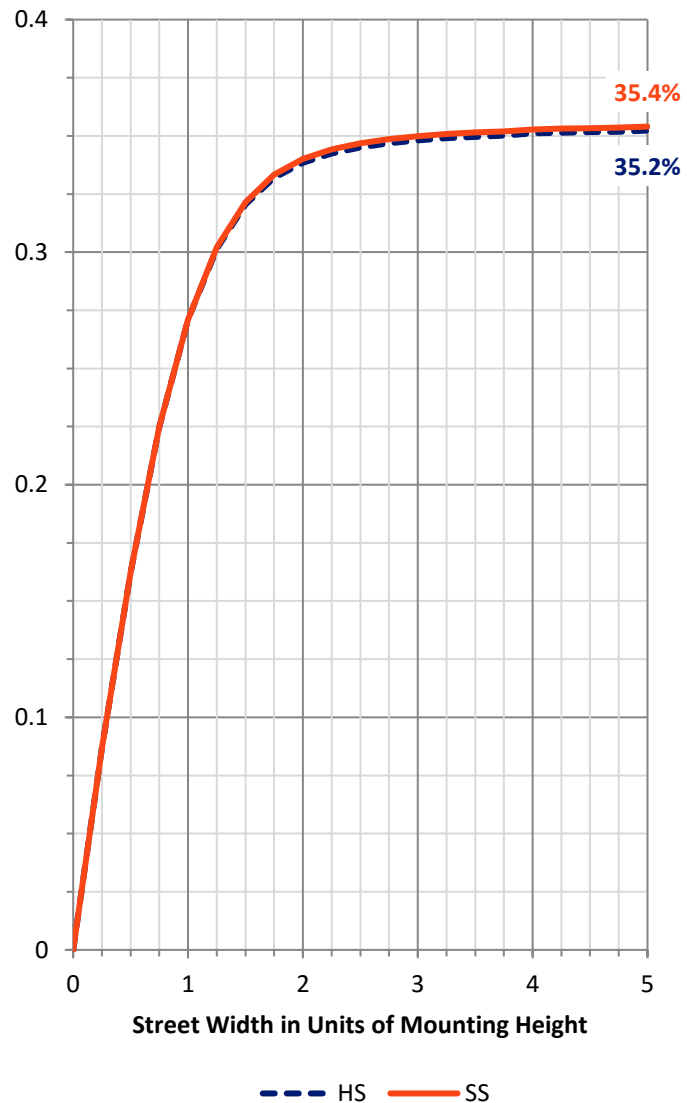
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.0	0.0	2868.0
	% Lamp	35.4	0.0	35.4
Street Side	Lumens	2868.0	0.0	2868.0
	% Lamp	35.4	0.0	35.4
Total	Lumens	5736.0	0.0	5736.0
	% Lamp	70.8	0.0	70.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	188.0	3.3	2.3
10°-20°	556.6	9.7	6.9
20°-30°	866.6	15.1	10.7
30°-40°	1093.6	19.1	13.5
40°-50°	1195.2	20.8	14.8
50°-60°	1073.9	18.7	13.3
60°-70°	561.4	9.8	6.9
70°-80°	171.7	3.0	2.1
80°-90°	28.9	0.5	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	5736.0	100.0	70.8
0°-180°	5736.0	100.0	70.8

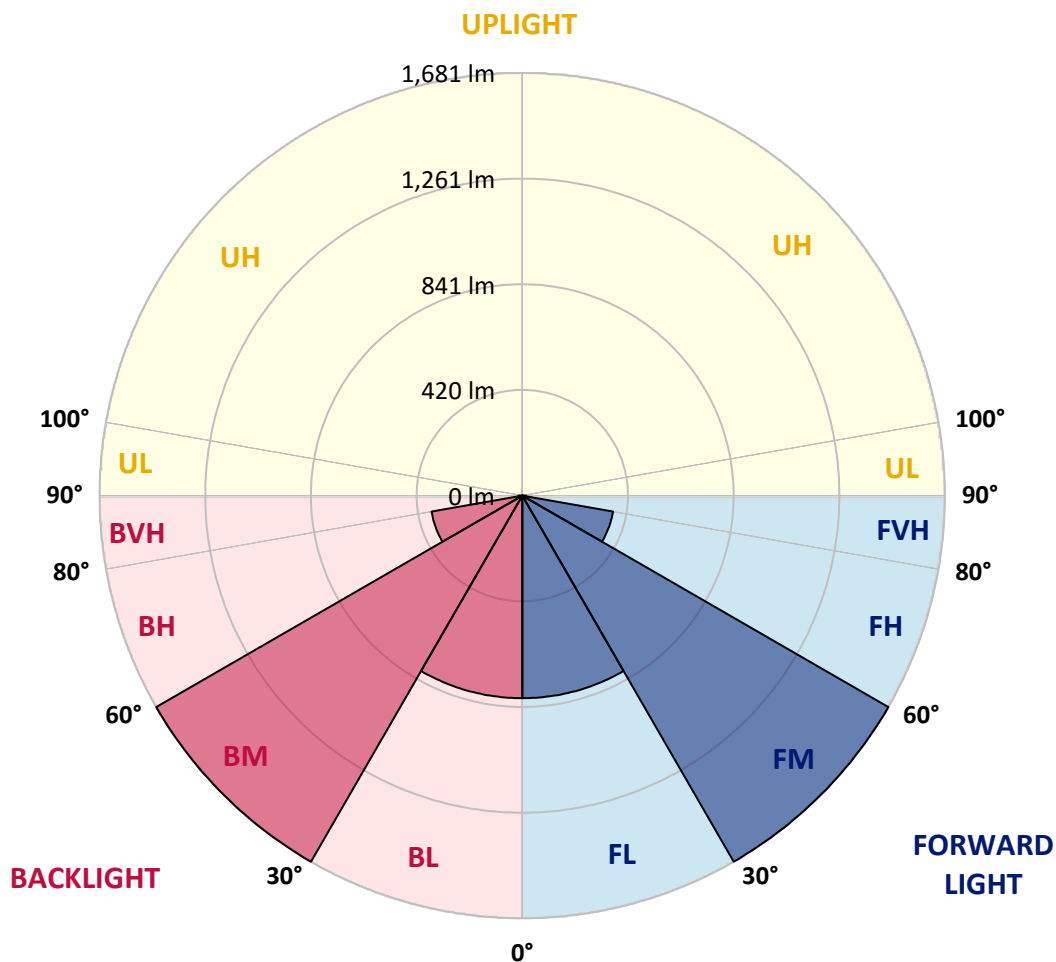


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.6	9.9			
FM	(30°-60°)	1681.4	20.8			
FH	(60°-80°)	366.5	4.5			G0/660
FVH	(80°-90°)	14.5	0.2			G1/100
BL	(0°-30°)	805.6	9.9	B2/1000		
BM	(30°-60°)	1681.4	20.8	B2/2500		
BH	(60°-80°)	366.5	4.5	B1/500		G1/500
BVH	(80°-90°)	14.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		2364.0	29.2			

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1
2.5°	1956.5	1896.7	1899.7	1891.5	1889.0	1891.5	1899.7	1896.7	1956.5	2002.1	2012.1
5°	1974.1	1871.6	1852.1	1839.6	1845.2	1839.6	1852.1	1871.6	1974.1	2058.9	2078.4
7.5°	1979.7	1866.4	1821.7	1795.3	1799.1	1795.3	1821.7	1866.4	1979.7	2089.6	2148.3
10°	1989.9	1872.8	1802.7	1741.0	1735.9	1741.0	1802.7	1872.8	1989.9	2118.3	2188.4
12.5°	1971.3	1854.2	1775.8	1681.6	1664.8	1681.6	1775.8	1854.2	1971.3	2143.9	2224.0
15°	1945.7	1820.4	1744.1	1620.2	1591.0	1620.2	1744.1	1820.4	1945.7	2153.4	2275.2
17.5°	1921.5	1775.3	1696.5	1554.2	1516.6	1554.2	1696.5	1775.3	1921.5	2139.0	2315.1
20°	1919.9	1766.6	1623.5	1497.9	1454.1	1497.9	1623.5	1766.6	1919.9	2122.7	2320.3
22.5°	1925.6	1749.0	1559.8	1445.9	1401.6	1445.9	1559.8	1749.0	1925.6	2143.4	2315.1
25°	1916.9	1725.9	1499.1	1397.8	1355.3	1397.8	1499.1	1725.9	1916.9	2165.2	2292.6
27.5°	1905.4	1699.1	1444.6	1344.0	1291.1	1344.0	1444.6	1699.1	1905.4	2211.0	2249.1
30°	1922.1	1645.3	1406.0	1294.1	1217.3	1294.1	1406.0	1645.3	1922.1	2243.5	2224.5
32.5°	1949.6	1612.3	1368.6	1224.8	1152.8	1224.8	1368.6	1612.3	1949.6	2289.0	2224.5
35°	1955.9	1589.0	1337.9	1152.3	1096.8	1152.3	1337.9	1589.0	1955.9	2335.1	2238.9
37.5°	1928.6	1566.0	1302.8	1089.1	1051.0	1089.1	1302.8	1566.0	1928.6	2342.8	2245.3
40°	1875.7	1543.4	1268.0	1046.6	1010.5	1046.6	1268.0	1543.4	1875.7	2327.2	2239.6
42.5°	1817.4	1506.6	1244.7	1006.7	964.7	1006.7	1244.7	1506.6	1817.4	2313.4	2213.3
45°	1758.4	1471.5	1214.8	964.2	921.7	964.2	1214.8	1471.5	1758.4	2237.8	2153.4
47.5°	1696.0	1424.1	1192.2	924.8	880.5	924.8	1192.2	1424.1	1696.0	2102.2	2031.5
50°	1577.2	1344.8	1153.6	879.7	833.6	879.7	1153.6	1344.8	1577.2	1987.8	1916.6
52.5°	1184.2	1219.9	1110.3	847.2	784.8	847.2	1110.3	1219.9	1184.2	1887.7	1809.6
55°	1088.2	1152.3	1038.7	799.1	690.6	799.1	1038.7	1152.3	1088.2	1812.2	1691.6
57.5°	801.4	1179.2	930.4	752.3	555.4	752.3	930.4	1179.2	801.4	1779.2	1556.0
60°	683.5	1079.1	763.5	652.9	431.0	652.9	763.5	1079.1	683.5	1758.9	1386.5
62.5°	584.5	466.1	408.0	415.4	373.7	415.4	408.0	466.1	584.5	1188.4	843.6
65°	473.0	333.8	301.8	310.5	323.0	310.5	301.8	333.8	473.0	985.4	651.2
67.5°	387.4	287.9	263.6	272.3	273.1	272.3	263.6	287.9	387.4	723.1	750.0
70°	304.3	242.4	229.3	228.0	225.0	228.0	229.3	242.4	304.3	478.1	351.2
72.5°	230.9	192.5	188.1	183.8	177.4	183.8	188.1	192.5	230.9	308.2	226.3
75°	173.1	149.2	143.6	140.0	134.9	140.0	143.6	149.2	173.1	195.5	154.8
77.5°	121.2	108.8	98.8	96.2	93.7	96.2	98.8	108.8	121.2	121.8	104.4
80°	80.0	74.2	63.7	61.2	58.6	61.2	63.7	74.2	80.0	73.7	69.4
82.5°	47.2	45.5	36.8	32.5	29.9	32.5	36.8	45.5	47.2	40.7	41.7
85°	25.3	25.1	18.7	13.8	11.8	13.8	18.7	25.1	25.3	18.7	22.5
87.5°	10.6	10.5	7.4	4.9	3.1	4.9	7.4	10.5	10.6	4.9	7.4
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1
2.5°	2003.9	1990.3	2003.9	2012.1	2002.1	1956.5
5°	2076.6	2050.2	2076.6	2078.4	2058.9	1974.1
7.5°	2143.9	2102.7	2143.9	2148.3	2089.6	1979.7
10°	2212.8	2156.5	2212.8	2188.4	2118.3	1989.9
12.5°	2284.7	2202.8	2284.7	2224.0	2143.9	1971.3
15°	2329.5	2242.2	2329.5	2275.2	2153.4	1945.7
17.5°	2337.2	2243.5	2337.2	2315.1	2139.0	1921.5
20°	2317.2	2232.2	2317.2	2320.3	2122.7	1919.9
22.5°	2290.3	2216.6	2290.3	2315.1	2143.4	1925.6
25°	2259.6	2187.2	2259.6	2292.6	2165.2	1916.9
27.5°	2206.6	2151.6	2206.6	2249.1	2211.0	1905.4
30°	2141.6	2084.5	2141.6	2224.5	2243.5	1922.1
32.5°	2048.9	1977.8	2048.9	2224.5	2289.0	1949.6
35°	1928.4	1833.9	1928.4	2238.9	2335.1	1955.9
37.5°	1773.5	1687.8	1773.5	2245.3	2342.8	1928.6
40°	1676.0	1585.9	1676.0	2239.6	2327.2	1875.7
42.5°	1576.7	1481.0	1576.7	2213.3	2313.4	1817.4
45°	1499.1	1396.0	1499.1	2153.4	2237.8	1758.4
47.5°	1427.2	1297.2	1427.2	2031.5	2102.2	1696.0
50°	1344.8	1211.7	1344.8	1916.6	1987.8	1577.2
52.5°	1250.4	1157.2	1250.4	1809.6	1887.7	1184.2
55°	1177.9	1059.9	1177.9	1691.6	1812.2	1088.2
57.5°	1163.6	926.8	1163.6	1556.0	1779.2	801.4
60°	1039.7	799.9	1039.7	1386.5	1758.9	683.5
62.5°	891.8	665.0	891.8	843.6	1188.4	584.5
65°	755.6	527.3	755.6	651.2	985.4	473.0
67.5°	527.3	344.3	527.3	750.0	723.1	387.4
70°	249.8	240.6	249.8	351.2	478.1	304.3
72.5°	183.8	188.1	183.8	226.3	308.2	230.9
75°	138.0	144.3	138.0	154.8	195.5	173.1
77.5°	100.1	106.2	100.1	104.4	121.8	121.2
80°	69.9	76.3	69.9	69.4	73.7	80.0
82.5°	45.0	51.9	45.0	41.7	40.7	47.2
85°	25.6	32.5	25.6	22.5	18.7	25.3
87.5°	11.3	16.9	11.3	7.4	4.9	10.6
90°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)