

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: INVUE

Report Number: P140653

Luminaire Tested: **EMM-F04-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140653
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-F04-LED-E1-5XQ-8030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8309.4 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

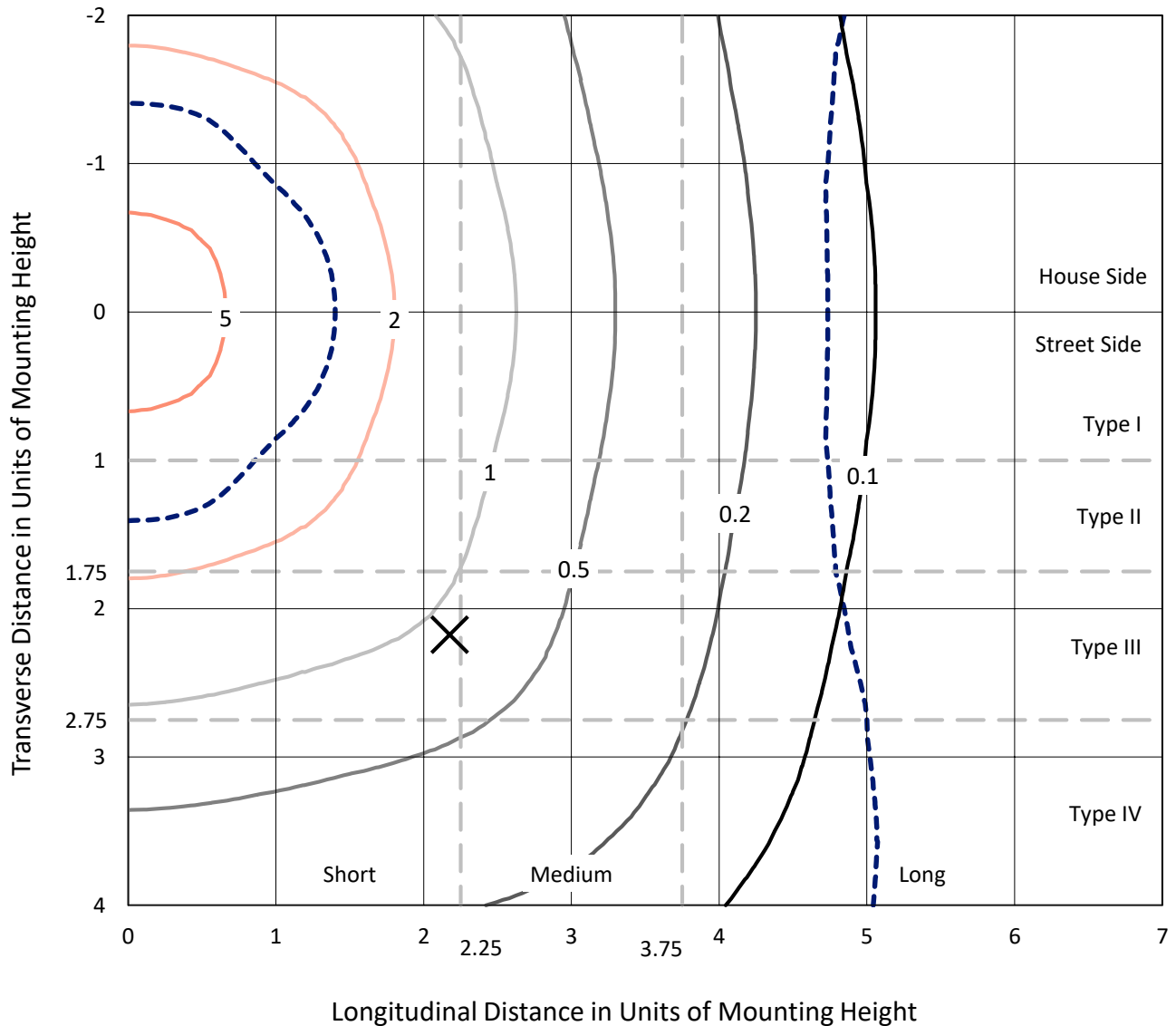
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140653
 CATALOG NUMBER: EMM-F04-LED-E1-5XQ-8030

Iso-Footcandle Lines of Horizontal Illumination

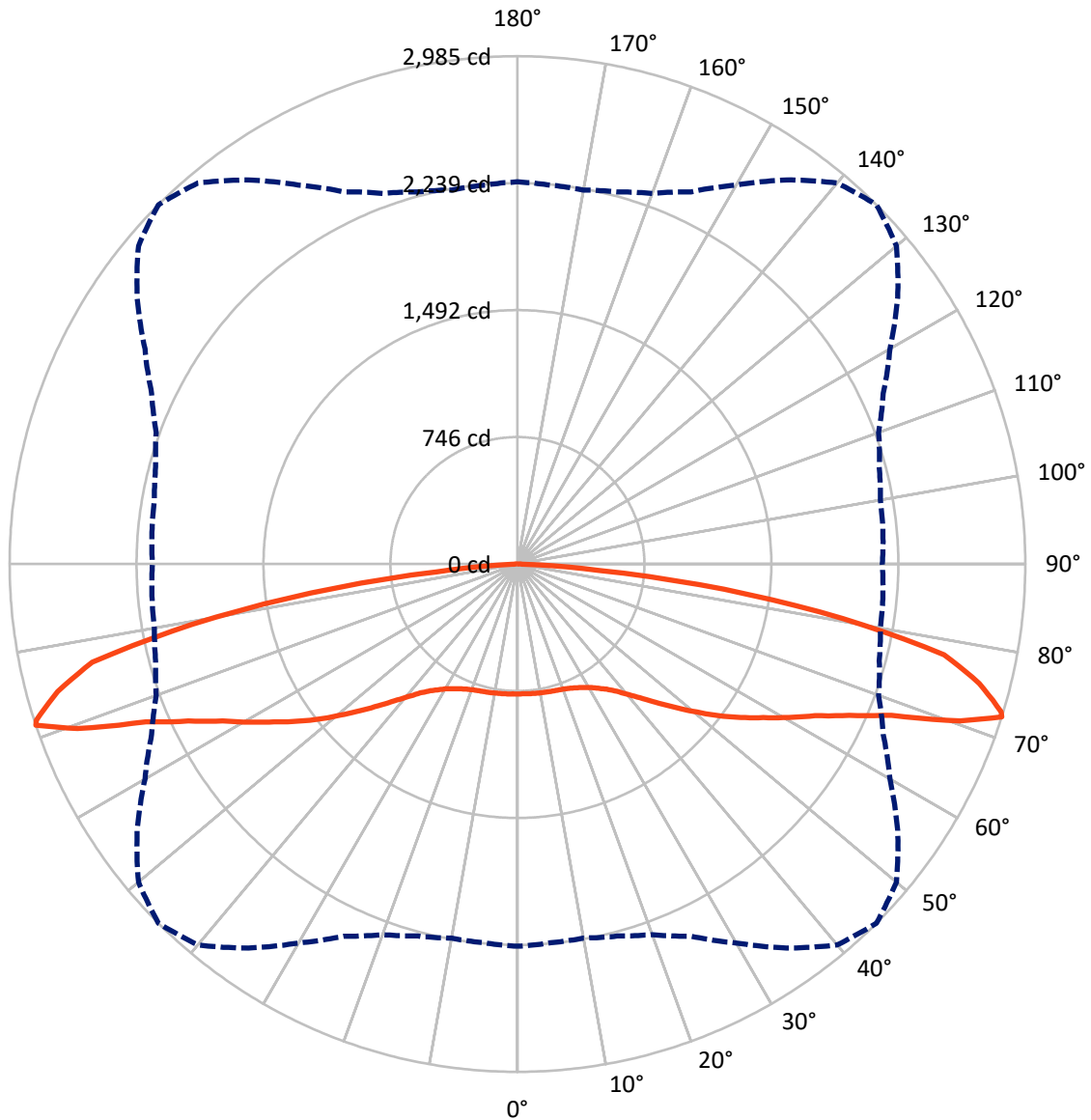
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140653
CATALOG NUMBER: EMM-F04-LED-E1-5XQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P140653

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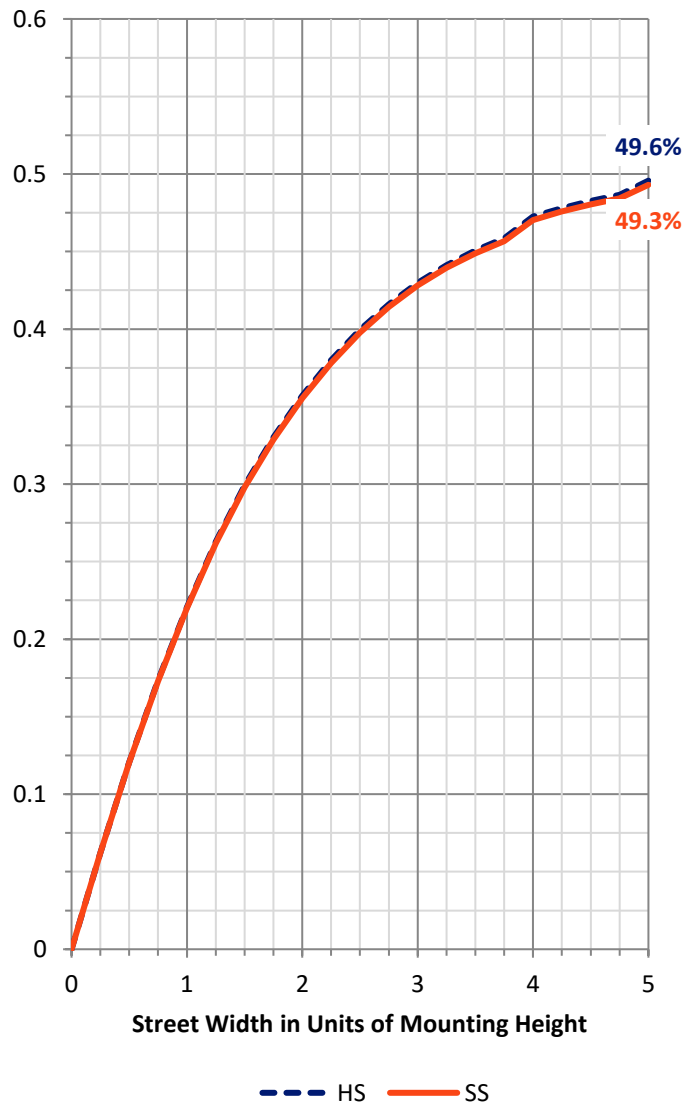
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4154.7	0.0	4154.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4154.7	0.0	4154.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8309.4	0.0	8309.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	0.9
10°-20°	220.4	2.7
20°-30°	373.0	4.5
30°-40°	567.5	6.8
40°-50°	898.4	10.8
50°-60°	1376.8	16.6
60°-70°	2021.3	24.3
70°-80°	2292.9	27.6
80°-90°	485.7	5.8
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°	8309.4	100.0
0°-180°	8309.4	100.0



REPORT NUMBER: P140653

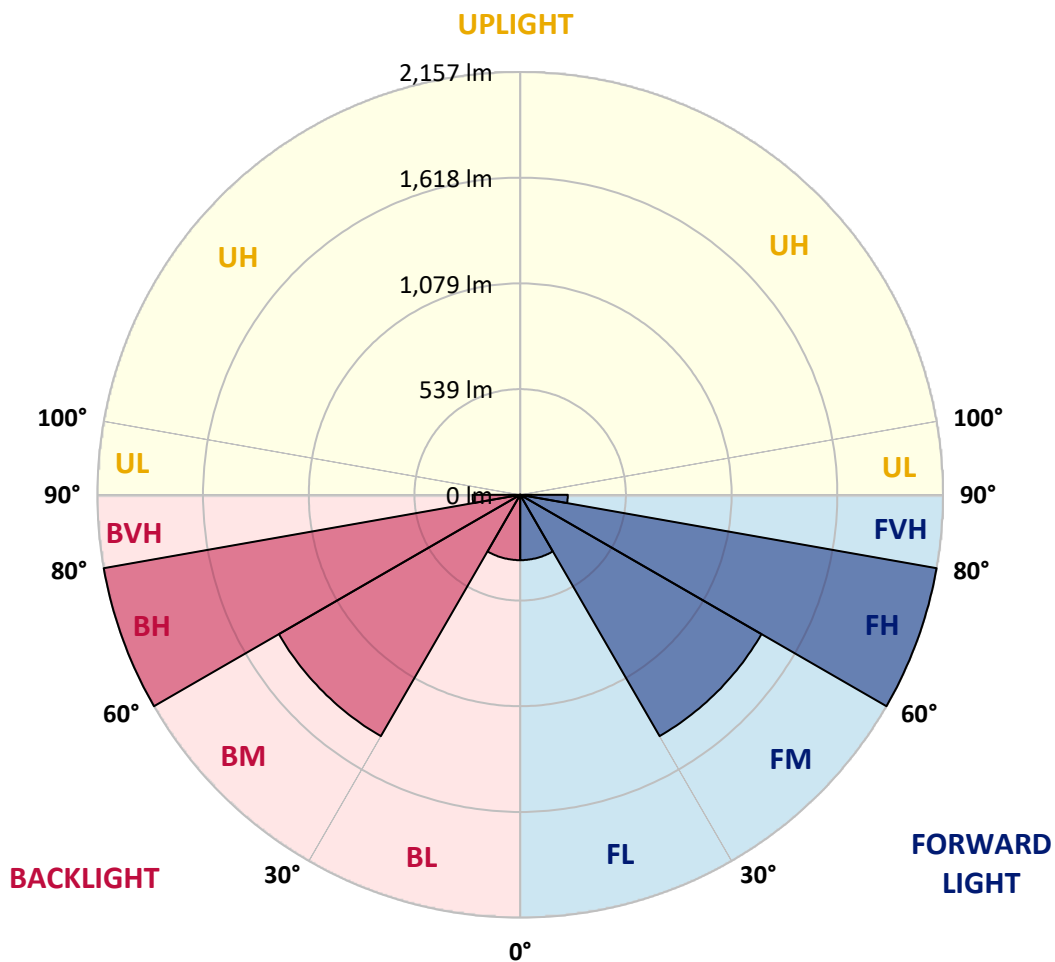
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.3	4.0			
FM	(30°-60°)	1421.4	17.1			
FH	(60°-80°)	2157.1	26.0			G2/5000
FVH	(80°-90°)	242.9	2.9			G3/500
BL	(0°-30°)	333.3	4.0	B1/500		
BM	(30°-60°)	1421.4	17.1	B2/2500		
BH	(60°-80°)	2157.1	26.0	B3/2500		G2/5000
BVH	(80°-90°)	242.9	2.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





REPORT NUMBER: P140653

CATALOG NUMBER: EMM-F04-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	766.4	767.3	766.4	765.5	765.5	764.6	764.6	764.6	765.5	763.6	763.6
5°	768.3	769.2	768.3	766.4	766.4	766.4	765.5	765.5	766.4	765.5	765.5
7.5°	771.1	772.0	771.1	769.2	769.2	768.3	767.3	767.3	769.2	767.3	767.3
10°	773.8	775.7	773.8	772.0	772.0	771.1	770.1	770.1	771.1	769.2	769.2
12.5°	778.5	778.5	777.6	776.6	776.6	775.7	774.8	773.8	772.9	772.0	771.1
15°	782.2	783.1	781.3	780.3	779.4	778.5	777.6	777.6	775.7	774.8	774.8
17.5°	786.8	787.8	785.9	784.1	784.1	782.2	781.3	781.3	779.4	778.5	777.6
20°	791.5	792.4	790.6	789.6	788.7	787.8	785.9	786.8	785.9	784.1	784.1
22.5°	797.1	797.1	796.1	795.2	795.2	794.3	793.3	795.2	793.3	793.3	792.4
25°	802.6	803.6	802.6	802.6	803.6	803.6	804.5	806.4	806.4	805.4	804.5
27.5°	814.7	814.7	814.7	814.7	817.5	817.5	818.4	821.2	822.1	822.1	822.1
30°	830.5	831.4	830.5	830.5	833.3	834.2	837.0	839.8	841.7	841.7	842.6
32.5°	853.7	852.8	853.7	855.6	857.4	859.3	862.1	866.7	869.5	870.5	870.5
35°	883.5	884.4	883.5	884.4	888.1	890.9	893.7	899.3	901.1	903.0	903.9
37.5°	927.1	929.9	928.1	928.1	932.7	934.6	938.3	942.9	946.6	948.5	947.6
40°	990.3	989.4	987.5	988.4	989.4	991.2	994.9	1004.2	1008.9	1008.9	1008.9
42.5°	1062.8	1063.7	1060.9	1060.0	1060.9	1062.8	1068.3	1075.8	1083.2	1081.3	1082.3
45°	1145.4	1138.9	1140.8	1138.9	1139.9	1146.4	1155.7	1159.4	1166.8	1166.8	1168.7
47.5°	1226.3	1223.5	1222.5	1221.6	1224.4	1230.9	1242.0	1254.1	1260.6	1264.3	1267.1
50°	1317.3	1312.6	1311.7	1312.6	1313.6	1315.4	1336.8	1348.9	1364.7	1367.5	1366.5
52.5°	1405.5	1401.8	1400.0	1400.0	1403.7	1410.2	1432.5	1452.0	1469.6	1480.8	1476.2
55°	1501.2	1501.2	1495.7	1493.8	1499.4	1505.9	1536.5	1558.8	1583.9	1592.3	1579.3
57.5°	1599.7	1598.8	1590.4	1587.6	1592.3	1609.0	1635.0	1669.4	1696.3	1703.8	1696.3
60°	1696.3	1696.3	1691.7	1689.8	1694.5	1714.9	1746.5	1784.6	1817.1	1831.0	1818.9
62.5°	1806.9	1806.9	1794.8	1800.4	1806.9	1822.7	1862.6	1911.8	1955.5	1962.9	1951.8
65°	1932.3	1937.9	1928.6	1926.7	1935.1	1964.8	2010.3	2072.6	2123.6	2143.2	2126.4
67.5°	2123.6	2115.3	2104.1	2099.5	2112.5	2140.4	2196.1	2277.9	2353.1	2371.7	2352.2
70°	2322.5	2314.1	2310.4	2325.2	2353.1	2411.6	2497.1	2611.4	2716.3	2760.9	2720.1
72°	2246.3	2235.1	2232.3	2263.9	2317.8	2413.5	2571.4	2755.4	2922.6	2984.8	2907.7
72.5°	2207.3	2198.0	2197.0	2226.8	2285.3	2381.9	2537.0	2726.6	2905.9	2973.7	2891.0
75°	2049.3	2040.0	2049.3	2082.8	2141.3	2245.3	2403.3	2580.7	2742.4	2804.6	2723.8
77.5°	1831.0	1814.3	1822.7	1869.1	1934.1	2047.5	2214.7	2424.6	2580.7	2564.0	2444.1
80°	1461.3	1424.1	1464.1	1478.0	1552.3	1628.5	1790.1	1884.0	1937.9	1940.6	1855.2
82.5°	638.2	653.1	703.2	745.0	798.0	886.2	951.3	1052.5	1170.5	1225.3	1159.4
85°	41.8	52.0	82.7	98.5	136.6	166.3	238.7	347.4	419.0	479.4	404.1
87.5°	7.4	10.2	18.6	22.3	24.2	26.9	26.9	37.2	39.0	31.6	35.3
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: P140653

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	763.6	763.6	764.6	763.6	763.6	763.6	762.7	762.7
5°	764.6	764.6	765.5	765.5	764.6	764.6	764.6	764.6
7.5°	767.3	766.4	767.3	767.3	766.4	766.4	765.5	766.4
10°	768.3	768.3	769.2	769.2	768.3	768.3	768.3	768.3
12.5°	771.1	771.1	771.1	772.0	771.1	771.1	772.0	771.1
15°	773.8	772.9	772.9	772.9	772.9	773.8	773.8	774.8
17.5°	776.6	776.6	775.7	776.6	776.6	777.6	777.6	777.6
20°	782.2	781.3	779.4	781.3	781.3	781.3	781.3	782.2
22.5°	790.6	788.7	786.8	786.8	785.9	786.8	785.9	785.9
25°	802.6	799.9	797.1	796.1	795.2	794.3	793.3	794.3
27.5°	820.3	816.6	812.9	811.0	810.1	808.2	807.3	807.3
30°	839.8	837.0	831.4	829.6	826.8	824.0	824.0	823.1
32.5°	869.5	865.8	859.3	856.5	851.9	849.1	848.2	848.2
35°	900.2	895.5	892.8	889.0	883.5	880.7	879.7	879.7
37.5°	946.6	941.1	937.3	932.7	931.8	928.1	928.1	928.1
40°	1007.0	1002.4	997.7	994.0	991.2	988.4	984.7	984.7
42.5°	1081.3	1073.9	1071.1	1066.5	1062.8	1060.0	1058.1	1058.1
45°	1163.1	1156.6	1152.9	1146.4	1145.4	1143.6	1139.9	1139.9
47.5°	1255.1	1245.8	1238.3	1236.5	1231.8	1227.2	1225.3	1226.3
50°	1355.4	1339.6	1329.4	1329.4	1323.8	1317.3	1318.2	1317.3
52.5°	1458.5	1440.8	1427.8	1418.6	1412.1	1411.1	1412.1	1411.1
55°	1562.5	1544.0	1528.2	1518.0	1511.5	1504.9	1504.0	1504.0
57.5°	1670.3	1647.1	1622.0	1612.7	1606.2	1602.5	1602.5	1603.4
60°	1792.0	1753.9	1722.3	1710.3	1705.6	1707.5	1706.5	1707.5
62.5°	1915.6	1871.9	1834.7	1820.8	1814.3	1813.4	1820.8	1823.6
65°	2071.6	2017.7	1975.9	1949.9	1949.9	1947.1	1955.5	1951.8
67.5°	2275.1	2198.9	2147.8	2106.0	2106.9	2109.7	2121.8	2120.9
70°	2621.6	2486.9	2392.1	2320.6	2292.7	2274.1	2270.4	2270.4
72°	2728.4	2527.8	2371.7	2259.3	2201.7	2166.4	2156.2	2145.0
72.5°	2700.5	2494.3	2336.4	2219.3	2159.9	2124.6	2108.8	2094.9
75°	2525.0	2294.6	2122.7	2000.1	1934.1	1891.4	1883.0	1876.5
77.5°	2227.7	2023.3	1845.9	1718.6	1652.7	1597.8	1575.6	1573.7
80°	1717.7	1533.7	1397.2	1297.8	1238.3	1197.5	1199.3	1186.3
82.5°	1013.5	858.4	741.3	608.5	521.2	471.0	439.4	435.7
85°	298.2	202.5	129.1	92.9	66.9	50.2	37.2	33.4
87.5°	26.9	21.4	17.7	14.9	13.9	12.1	7.4	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)