

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: P180043

Luminaire Tested: **ICS-F03-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180043
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7185.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3
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

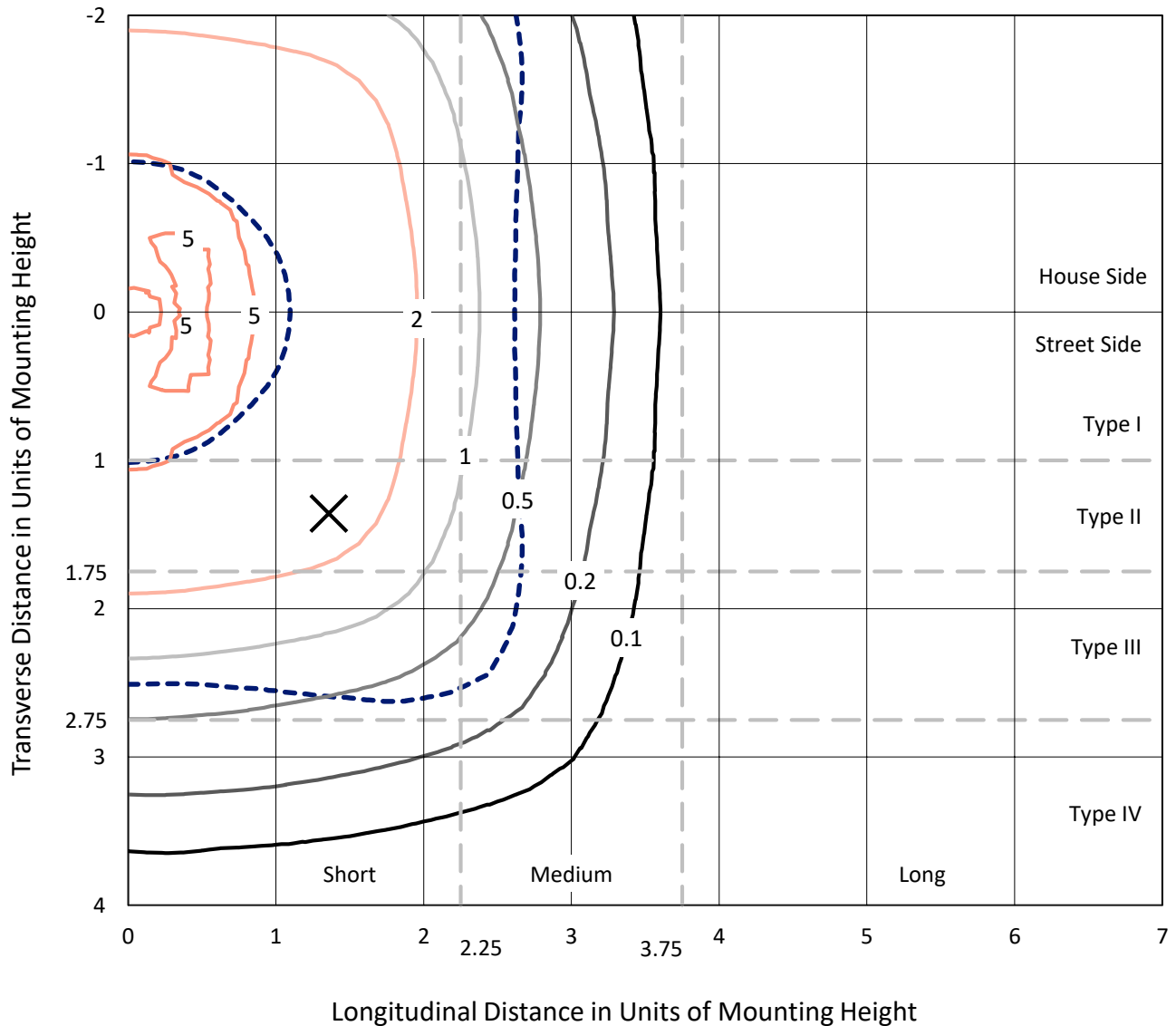


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Iso-Footcandle Lines of Horizontal Illumination

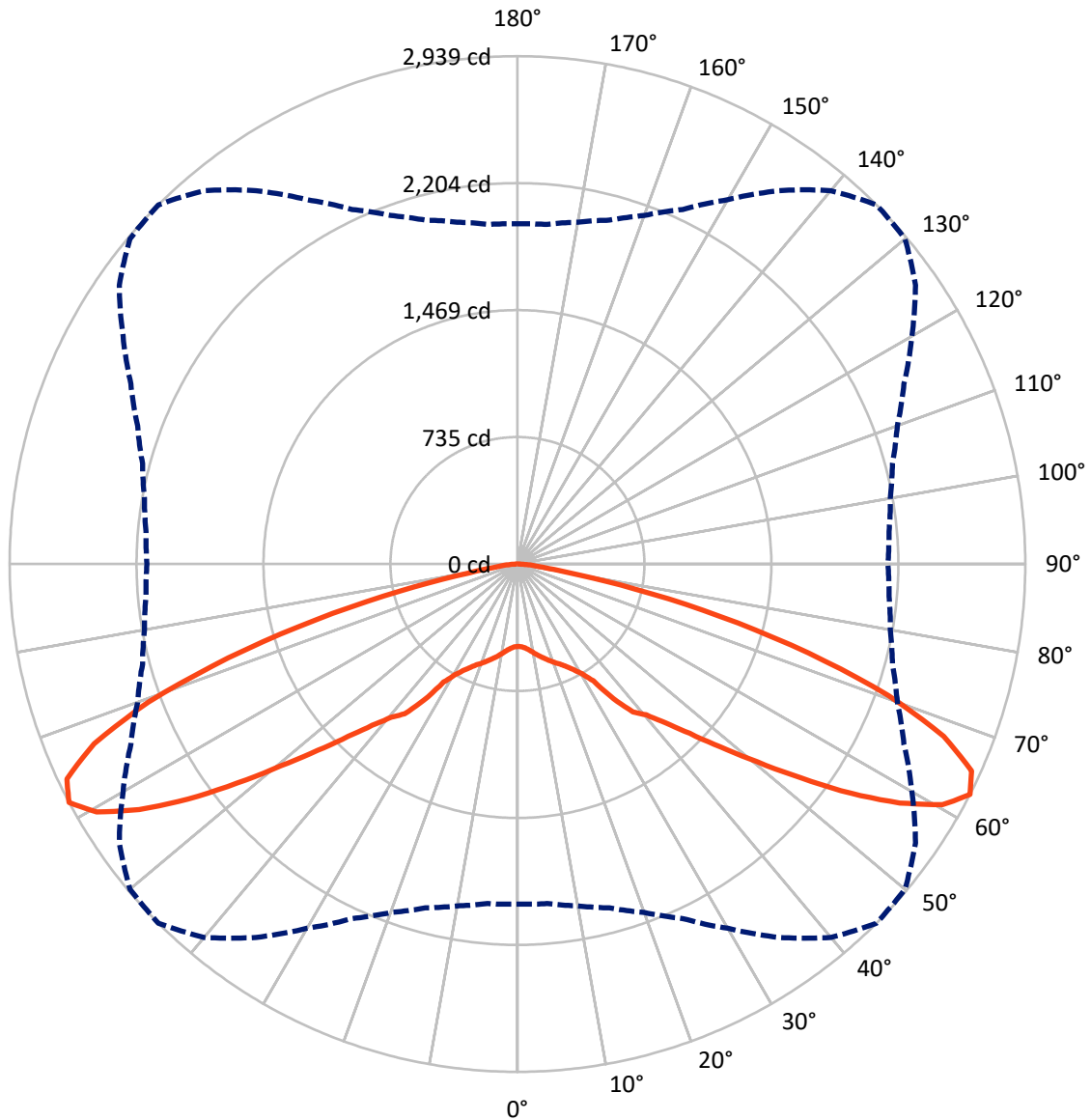
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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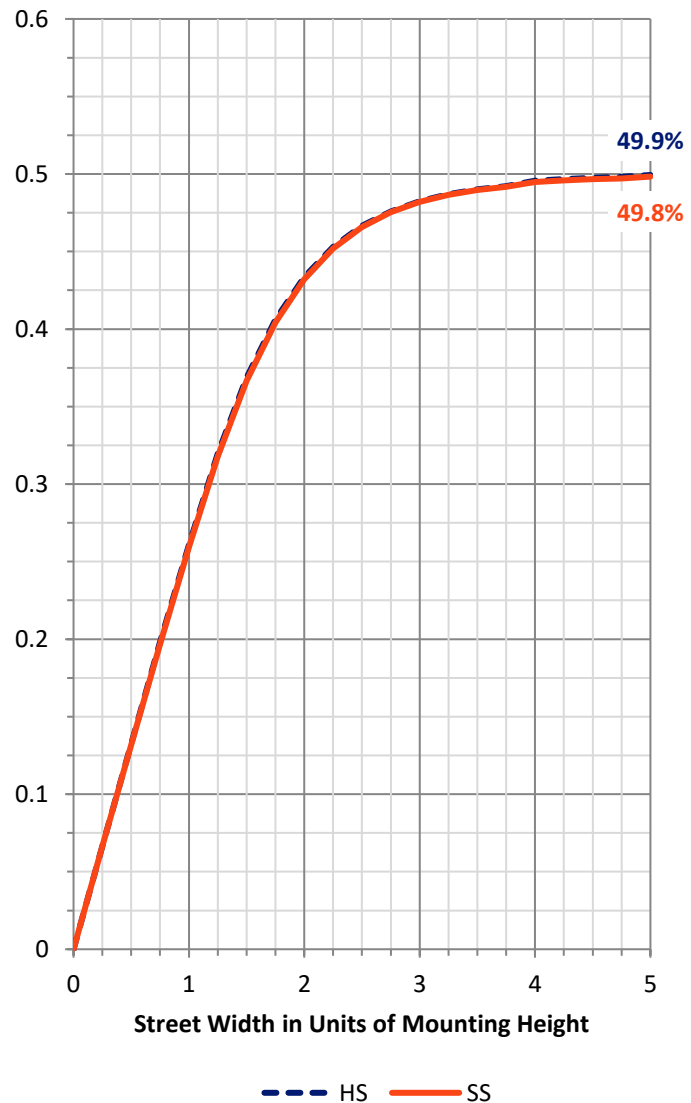
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3593.0	0.0	3593.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3593.0	0.0	3593.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7185.9	0.0	7185.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.7
10°-20°	161.6	2.2
20°-30°	312.4	4.3
30°-40°	604.9	8.4
40°-50°	1092.3	15.2
50°-60°	1899.3	26.4
60°-70°	2156.2	30.0
70°-80°	835.9	11.6
80°-90°	75.4	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°	7185.9	100.0
0°-180°	7185.9	100.0



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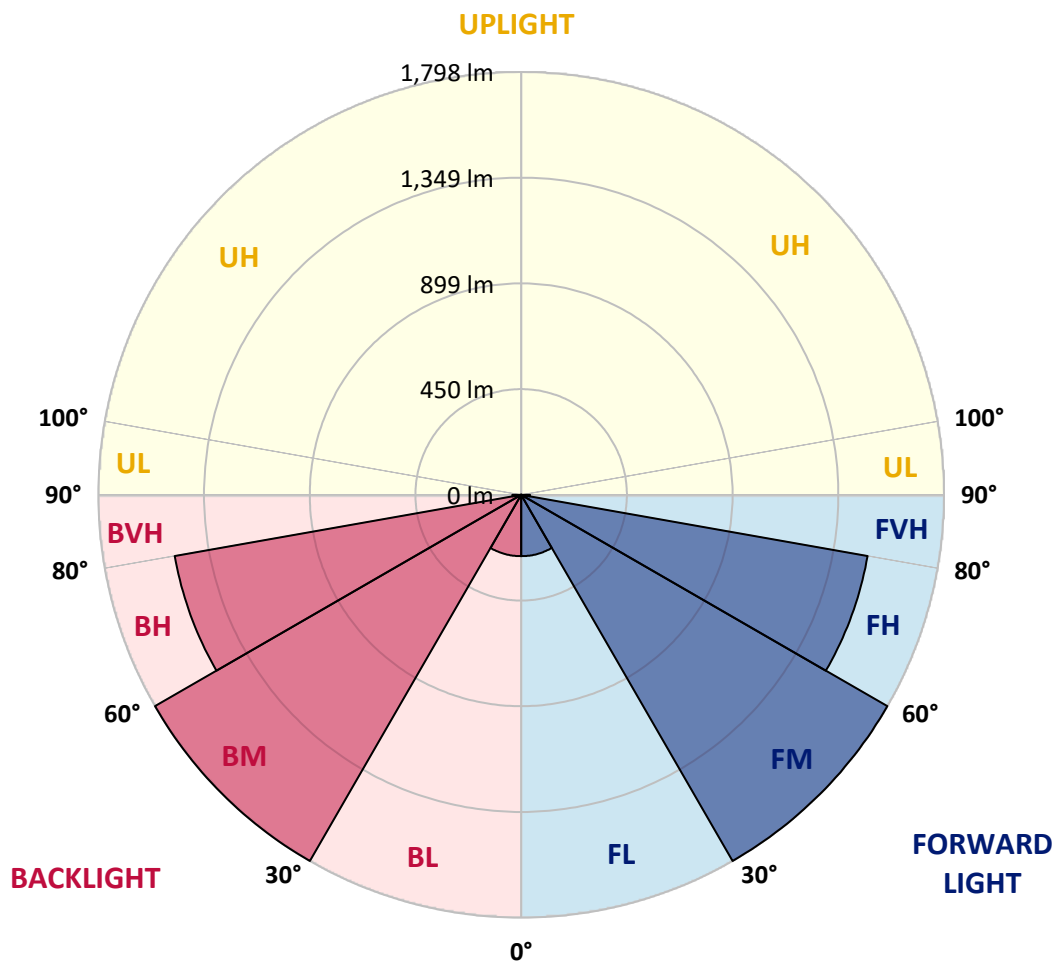
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.9	3.6			
FM	(30°-60°)	1798.3	25.0			
FH	(60°-80°)	1496.1	20.8			G1/1800
FVH	(80°-90°)	37.7	0.5			G1/100
BL	(0°-30°)	260.9	3.6	B1/500		
BM	(30°-60°)	1798.3	25.0	B2/2500		
BH	(60°-80°)	1496.1	20.8	B3/2500		G1/1800
BVH	(80°-90°)	37.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	480.0	481.5	481.1	480.4	480.4	480.4	480.0	478.9	478.5	479.2	480.0
5°	491.2	491.2	491.2	491.2	490.4	490.4	489.6	488.9	489.2	488.5	488.2
7.5°	508.2	507.1	507.2	506.8	506.8	506.0	504.8	503.4	503.8	503.4	503.0
10°	528.3	528.6	527.6	528.7	526.8	526.4	524.9	524.2	523.8	522.7	522.7
12.5°	552.4	551.3	551.4	550.6	549.8	549.1	546.8	546.5	545.0	544.2	543.2
15°	575.1	574.8	573.2	571.8	571.4	570.6	568.0	566.6	566.2	564.3	562.8
17.5°	597.8	597.0	595.2	594.4	593.0	591.8	589.6	587.4	586.2	585.5	583.6
20°	622.0	621.2	619.3	617.8	616.0	614.4	611.2	609.3	608.2	607.0	605.6
22.5°	652.0	650.5	647.6	645.0	640.8	639.3	634.9	632.3	630.4	629.0	628.2
25°	684.7	685.0	681.0	677.7	672.8	668.7	663.2	660.2	658.3	656.8	656.4
27.5°	725.6	726.0	722.2	717.4	710.0	705.5	698.0	694.4	693.2	691.8	691.4
30°	790.2	786.8	780.6	772.8	766.0	756.4	745.6	741.9	738.2	737.0	737.0
32.5°	909.0	907.2	902.0	882.7	873.8	853.8	834.8	824.0	811.8	805.8	802.1
35°	992.3	991.6	987.4	980.8	975.2	971.2	960.0	958.2	955.8	955.9	958.8
37.5°	1053.6	1049.2	1048.4	1049.5	1048.0	1048.8	1057.7	1069.9	1080.4	1085.6	1084.8
40°	1144.2	1138.0	1141.6	1139.0	1135.7	1135.0	1138.0	1142.8	1147.6	1147.6	1146.5
42.5°	1262.8	1265.8	1267.2	1256.4	1249.4	1247.5	1254.6	1253.1	1258.0	1256.1	1251.2
45°	1438.8	1437.0	1434.4	1421.4	1410.2	1401.4	1403.2	1400.6	1400.9	1398.0	1394.3
47.5°	1616.4	1622.8	1611.9	1605.6	1593.0	1586.7	1591.9	1587.4	1596.0	1580.4	1572.9
50°	1788.8	1793.3	1789.6	1780.6	1780.6	1789.6	1795.8	1804.0	1816.0	1798.1	1771.4
52.5°	1930.0	1933.7	1939.3	1946.7	1964.9	1983.8	2010.6	2039.2	2061.9	2058.6	2028.0
55°	2016.2	2020.6	2029.9	2055.6	2088.2	2138.0	2198.6	2265.0	2317.1	2342.4	2320.0
57.5°	2045.2	2048.5	2073.8	2104.6	2155.5	2229.4	2330.9	2445.6	2545.6	2609.1	2599.0
60°	2038.4	2038.4	2064.0	2106.4	2177.8	2275.8	2419.2	2578.2	2731.3	2826.4	2812.4
62.5°	1968.2	1972.0	2008.8	2059.6	2145.8	2263.2	2434.2	2637.3	2820.5	2938.6	2927.1
65°	1814.4	1817.0	1856.8	1917.4	2013.6	2152.5	2339.4	2564.5	2774.4	2888.1	2866.6
67.5°	1565.8	1568.5	1600.8	1669.2	1771.0	1916.2	2118.0	2365.8	2571.2	2661.1	2596.5
70°	1245.6	1253.1	1273.9	1346.4	1423.6	1565.9	1751.6	1999.4	2193.4	2278.4	2207.1
72.5°	848.9	867.8	893.1	957.4	1031.3	1149.4	1297.3	1506.0	1661.8	1760.2	1696.6
75°	478.2	504.9	512.6	561.4	622.2	715.5	823.6	973.4	1130.5	1210.4	1133.8
77.5°	206.6	228.5	238.2	260.8	308.4	347.4	413.1	514.2	635.7	691.8	600.0
80°	101.8	107.0	111.0	118.2	131.5	144.2	175.4	219.6	269.4	282.0	224.4
82.5°	78.8	82.5	89.6	95.1	98.4	101.8	104.8	110.7	115.6	118.2	111.4
85°	55.4	60.2	68.0	74.3	78.0	80.6	83.2	85.1	80.6	73.6	77.2
87.5°	14.5	19.0	26.4	28.6	32.3	34.2	33.4	34.6	31.2	22.6	25.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	479.6	479.2	479.6	479.6	479.6	479.2	479.2	479.2
5°	488.2	488.2	488.6	487.8	487.8	488.2	487.8	487.4
7.5°	502.6	502.3	502.3	501.9	502.3	501.9	501.9	501.5
10°	522.0	521.2	521.6	520.5	520.5	520.1	520.1	520.1
12.5°	542.8	541.7	542.0	540.9	539.0	539.4	539.8	539.4
15°	562.8	561.8	560.6	559.8	558.7	559.2	559.2	558.7
17.5°	583.2	581.0	580.7	579.6	579.2	579.2	579.2	579.6
20°	604.4	603.0	602.6	601.5	601.1	602.2	602.6	601.8
22.5°	627.2	626.3	627.1	626.4	627.4	628.2	628.6	627.8
25°	655.7	655.0	656.1	658.6	660.2	661.0	662.8	662.0
27.5°	692.5	691.8	694.3	698.0	700.2	704.0	705.8	706.6
30°	740.0	743.4	744.8	752.3	753.8	759.8	759.7	762.3
32.5°	809.2	815.5	826.6	838.1	854.1	865.6	865.6	871.6
35°	960.7	963.3	971.8	973.8	977.1	980.8	977.1	980.0
37.5°	1077.0	1065.4	1057.4	1045.8	1038.8	1038.8	1039.4	1038.7
40°	1136.4	1132.0	1128.2	1118.6	1117.1	1116.8	1116.8	1118.2
42.5°	1242.7	1231.9	1226.0	1217.8	1215.2	1214.4	1214.1	1214.8
45°	1380.9	1363.4	1347.4	1339.3	1332.2	1325.6	1327.8	1327.8
47.5°	1541.8	1514.6	1488.6	1474.5	1462.2	1456.7	1453.0	1451.8
50°	1737.6	1699.6	1666.2	1639.8	1622.0	1621.6	1623.4	1611.6
52.5°	1977.6	1917.7	1876.1	1840.4	1823.7	1821.8	1816.0	1809.2
55°	2243.5	2172.6	2103.8	2065.6	2043.6	2031.8	2024.7	2013.6
57.5°	2517.7	2422.2	2323.4	2262.1	2223.4	2196.7	2182.6	2176.3
60°	2729.0	2598.7	2468.3	2369.8	2305.6	2265.8	2241.3	2231.3
62.5°	2812.3	2635.4	2468.2	2339.0	2246.1	2191.2	2158.1	2143.6
65°	2713.1	2503.6	2313.4	2170.7	2067.0	2005.8	1969.8	1954.1
67.5°	2436.0	2251.0	2044.0	1902.2	1795.5	1735.0	1695.9	1684.4
70°	2042.2	1853.1	1655.4	1528.8	1433.6	1384.2	1343.8	1338.9
72.5°	1534.7	1371.6	1202.2	1097.4	1020.9	939.2	918.4	928.8
75°	983.8	831.0	680.2	585.8	516.0	438.0	407.9	415.3
77.5°	465.8	360.8	260.4	201.4	169.0	144.5	138.2	134.5
80°	172.8	140.0	123.7	117.4	113.0	108.8	105.9	102.5
82.5°	111.8	109.2	105.9	104.8	101.4	96.2	86.6	82.5
85°	83.6	83.6	79.2	79.5	76.9	70.2	61.3	56.5
87.5°	24.5	22.0	20.0	18.6	18.2	16.4	11.9	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)