

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: P179967

Luminaire Tested: **ICM-E02-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179967
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: ICM-E02-LED-E1-5MQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478.1 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

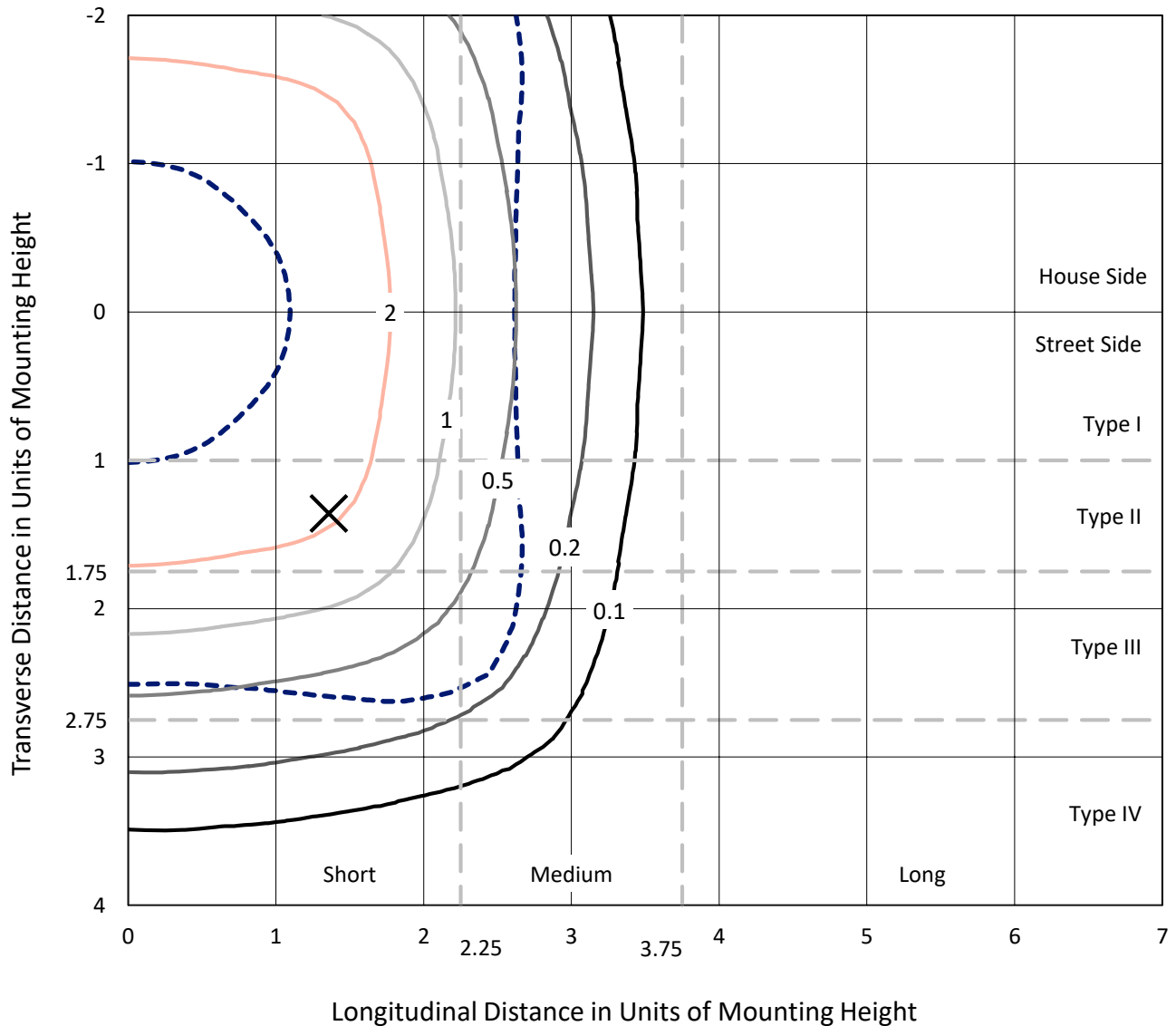
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

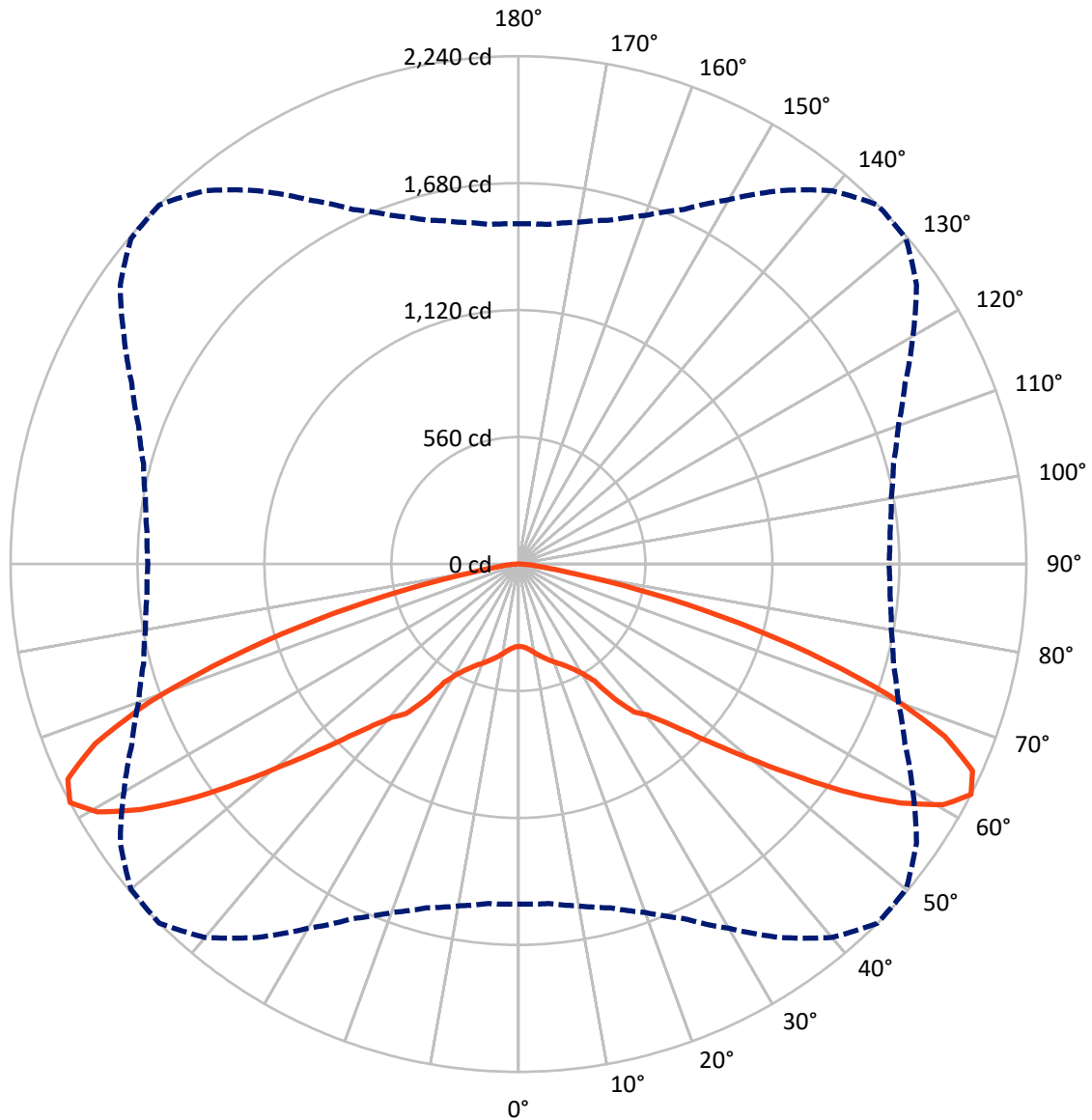
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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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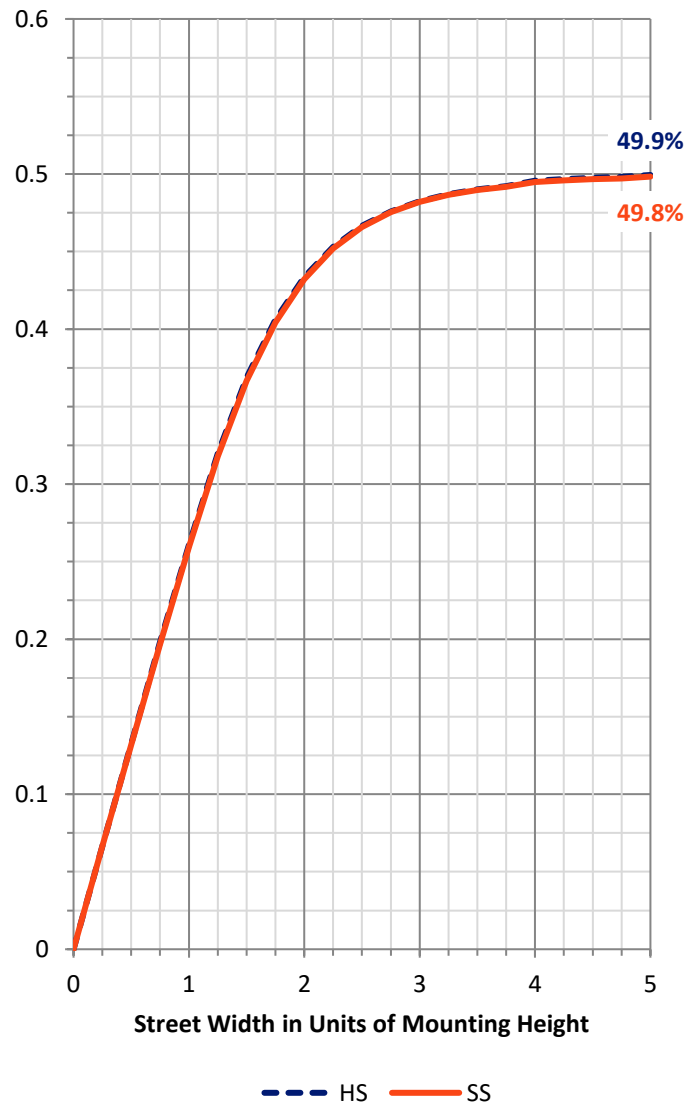
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2739.0	0.0	2739.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2739.0	0.0	2739.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5478.1	0.0	5478.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	0.7
10°-20°	123.2	2.2
20°-30°	238.2	4.3
30°-40°	461.2	8.4
40°-50°	832.7	15.2
50°-60°	1447.9	26.4
60°-70°	1643.7	30.0
70°-80°	637.3	11.6
80°-90°	57.5	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°	5478.1	100.0
0°-180°	5478.1	100.0



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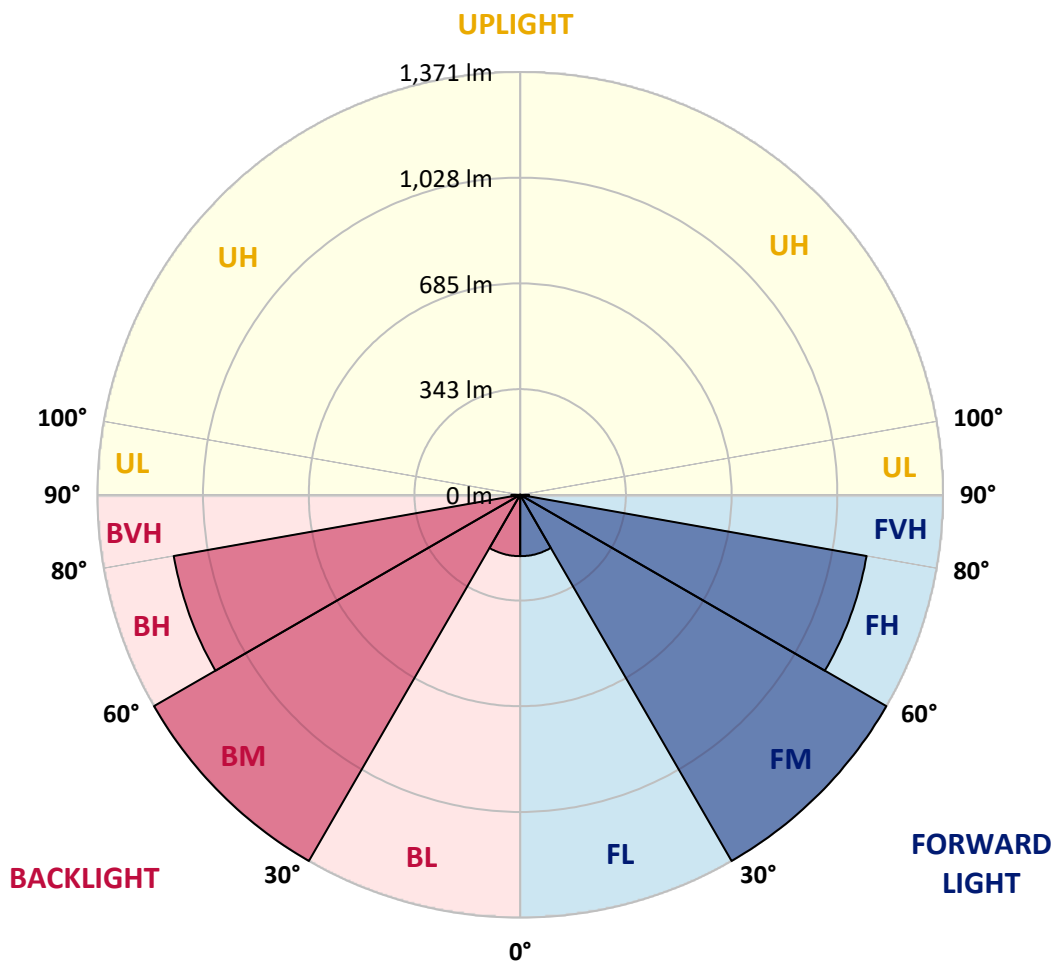
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.9	3.6			
FM	(30°-60°)	1370.9	25.0			
FH	(60°-80°)	1140.5	20.8			G1/1800
FVH	(80°-90°)	28.7	0.5			G1/100
BL	(0°-30°)	198.9	3.6	B1/500		
BM	(30°-60°)	1370.9	25.0	B2/2500		
BH	(60°-80°)	1140.5	20.8	B3/2500		G1/1800
BVH	(80°-90°)	28.7	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°	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6
2.5°	366.0	367.1	366.8	366.2	366.2	366.1	366.0	365.1	364.8	365.4	366.0
5°	374.4	374.4	374.4	374.4	373.9	373.9	373.3	372.7	373.0	372.5	372.1
7.5°	387.4	386.6	386.6	386.2	386.3	385.8	384.9	383.8	384.0	383.7	383.4
10°	402.8	403.0	402.1	403.0	401.7	401.3	400.2	399.6	399.3	398.5	398.5
12.5°	421.1	420.3	420.3	419.7	419.2	418.6	416.9	416.6	415.4	414.9	414.0
15°	438.3	438.1	437.0	435.9	435.5	435.0	433.0	431.9	431.6	430.1	429.0
17.5°	455.6	455.1	453.7	453.1	452.0	451.2	449.5	447.8	446.9	446.3	444.9
20°	474.0	473.5	472.1	471.0	469.6	468.5	465.9	464.5	463.6	462.7	461.6
22.5°	497.0	495.9	493.7	491.7	488.6	487.4	484.0	482.0	480.7	479.4	478.9
25°	522.0	522.2	519.1	516.6	512.9	509.8	505.5	503.3	501.9	500.7	500.5
27.5°	553.1	553.4	550.5	546.9	541.2	537.9	532.1	529.3	528.5	527.3	527.1
30°	602.4	599.8	595.0	589.0	584.0	576.6	568.4	565.6	562.8	561.9	561.9
32.5°	693.0	691.6	687.6	672.8	666.1	650.8	636.4	628.1	618.8	614.3	611.4
35°	756.5	755.9	752.7	747.7	743.4	740.3	731.8	730.4	728.7	728.7	731.0
37.5°	803.2	799.8	799.3	800.0	799.0	799.4	806.3	815.6	823.6	827.5	827.0
40°	872.3	867.5	870.3	868.3	865.8	865.2	867.5	871.2	874.8	874.8	874.1
42.5°	962.6	964.8	966.1	957.8	952.5	951.0	956.4	955.3	958.9	957.6	953.9
45°	1096.9	1095.4	1093.5	1083.5	1075.1	1068.3	1069.7	1067.7	1068.0	1065.7	1062.9
47.5°	1232.2	1237.0	1228.8	1224.0	1214.3	1209.6	1213.6	1210.2	1216.7	1204.8	1199.1
50°	1363.6	1367.1	1364.3	1357.4	1357.4	1364.3	1369.1	1375.3	1384.4	1370.8	1350.3
52.5°	1471.3	1474.1	1478.3	1484.0	1497.9	1512.4	1532.8	1554.5	1571.8	1569.3	1546.1
55°	1536.9	1540.4	1547.5	1567.1	1592.0	1630.0	1676.1	1726.7	1766.3	1785.7	1768.7
57.5°	1559.1	1561.6	1580.8	1604.4	1643.2	1699.5	1776.9	1864.4	1940.6	1988.9	1981.3
60°	1554.0	1554.1	1573.5	1605.8	1660.2	1734.9	1844.3	1965.4	2082.2	2154.6	2143.9
62.5°	1500.5	1503.3	1531.4	1570.1	1635.8	1725.3	1855.6	2010.5	2150.2	2240.2	2231.5
65°	1383.2	1385.1	1415.5	1461.6	1535.1	1640.9	1783.4	1955.0	2115.0	2201.7	2185.2
67.5°	1193.7	1195.7	1220.3	1272.5	1350.1	1460.8	1614.5	1803.5	1960.1	2028.7	1979.4
70°	949.6	955.3	971.2	1026.4	1085.2	1193.7	1335.4	1524.3	1672.1	1736.9	1682.6
72.5°	647.1	661.6	680.8	729.9	786.2	876.3	989.0	1148.1	1266.8	1341.9	1293.4
75°	364.5	384.9	390.9	428.0	474.4	545.5	627.9	742.1	861.8	922.7	864.4
77.5°	157.5	174.1	181.6	198.8	235.1	264.7	315.0	392.0	484.6	527.4	457.4
80°	77.6	81.6	84.7	90.0	100.3	110.0	133.7	167.3	205.4	215.0	171.1
82.5°	60.1	62.9	68.3	72.6	75.0	77.6	79.8	84.4	88.1	90.0	84.9
85°	42.2	45.9	51.8	56.7	59.4	61.5	63.4	64.8	61.5	56.1	58.9
87.5°	11.1	14.4	20.1	21.8	24.7	26.0	25.5	26.4	23.8	17.3	19.3
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°	363.6	363.6	363.6	363.6	363.6	363.6	363.6	363.6
2.5°	365.6	365.3	365.6	365.6	365.6	365.4	365.4	365.3
5°	372.1	372.1	372.5	371.9	371.8	372.1	371.9	371.5
7.5°	383.3	382.9	382.9	382.7	382.9	382.6	382.7	382.3
10°	398.0	397.4	397.6	396.8	396.8	396.5	396.5	396.5
12.5°	413.8	412.8	413.2	412.3	411.0	411.3	411.5	411.3
15°	429.0	428.3	427.4	426.8	426.0	426.2	426.2	426.0
17.5°	444.7	443.0	442.6	441.9	441.5	441.5	441.5	441.8
20°	460.8	459.7	459.4	458.5	458.2	459.1	459.4	458.8
22.5°	478.1	477.5	478.0	477.5	478.3	478.9	479.3	478.6
25°	499.9	499.4	500.1	502.1	503.3	503.8	505.3	504.7
27.5°	527.9	527.4	529.3	532.2	533.9	536.7	538.0	538.7
30°	564.1	566.7	567.8	573.6	574.7	579.2	579.2	581.1
32.5°	616.8	621.6	630.1	638.9	651.2	659.9	659.9	664.4
35°	732.4	734.3	740.8	742.3	744.8	747.7	744.8	747.1
37.5°	821.0	812.3	806.0	797.2	791.8	791.8	792.4	791.8
40°	866.3	862.9	860.1	852.7	851.6	851.4	851.4	852.5
42.5°	947.4	939.2	934.5	928.4	926.3	925.8	925.6	926.1
45°	1052.7	1039.4	1027.2	1021.0	1015.6	1010.5	1012.3	1012.2
47.5°	1175.3	1154.6	1134.9	1124.1	1114.7	1110.5	1107.6	1106.8
50°	1324.7	1295.7	1270.2	1250.1	1236.5	1236.3	1237.6	1228.6
52.5°	1507.5	1462.0	1430.2	1403.0	1390.3	1388.9	1384.4	1379.3
55°	1710.3	1656.2	1603.8	1574.6	1558.0	1548.8	1543.5	1535.0
57.5°	1919.4	1846.5	1771.2	1724.5	1695.1	1674.6	1663.8	1659.1
60°	2080.4	1981.0	1881.7	1806.6	1757.6	1727.3	1708.7	1700.9
62.5°	2143.9	2009.1	1881.7	1783.1	1712.3	1670.3	1645.2	1634.1
65°	2068.3	1908.6	1763.5	1654.8	1575.8	1529.0	1501.6	1489.7
67.5°	1856.9	1715.9	1558.1	1450.1	1368.8	1322.6	1292.8	1284.1
70°	1556.8	1412.7	1262.0	1165.4	1092.8	1055.3	1024.4	1020.7
72.5°	1170.0	1045.6	916.5	836.7	778.2	716.0	700.1	708.0
75°	750.0	633.5	518.5	446.6	393.3	334.0	311.0	316.7
77.5°	355.2	275.0	198.5	153.5	128.9	110.1	105.3	102.5
80°	131.7	106.8	94.3	89.5	86.1	83.0	80.7	78.1
82.5°	85.2	83.3	80.7	79.8	77.3	73.3	66.0	62.9
85°	63.7	63.7	60.3	60.7	58.6	53.6	46.7	43.1
87.5°	18.7	16.7	15.3	14.1	14.0	12.5	9.0	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)