

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: P180028

Luminaire Tested: **ICS-E02-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180028
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-E02-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5803.1 lumens
Efficiency: N/A
Efficacy: 111.4 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

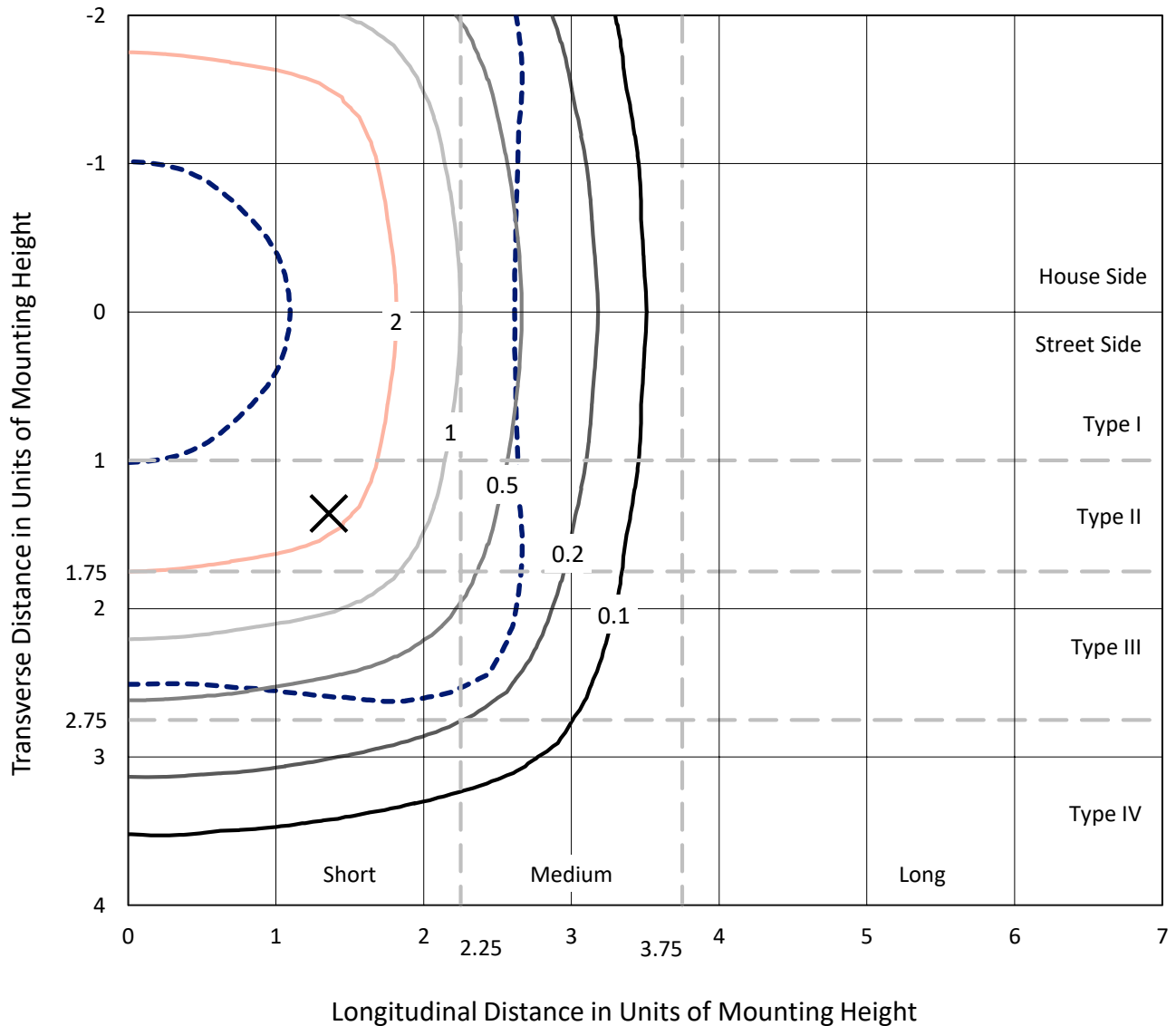
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

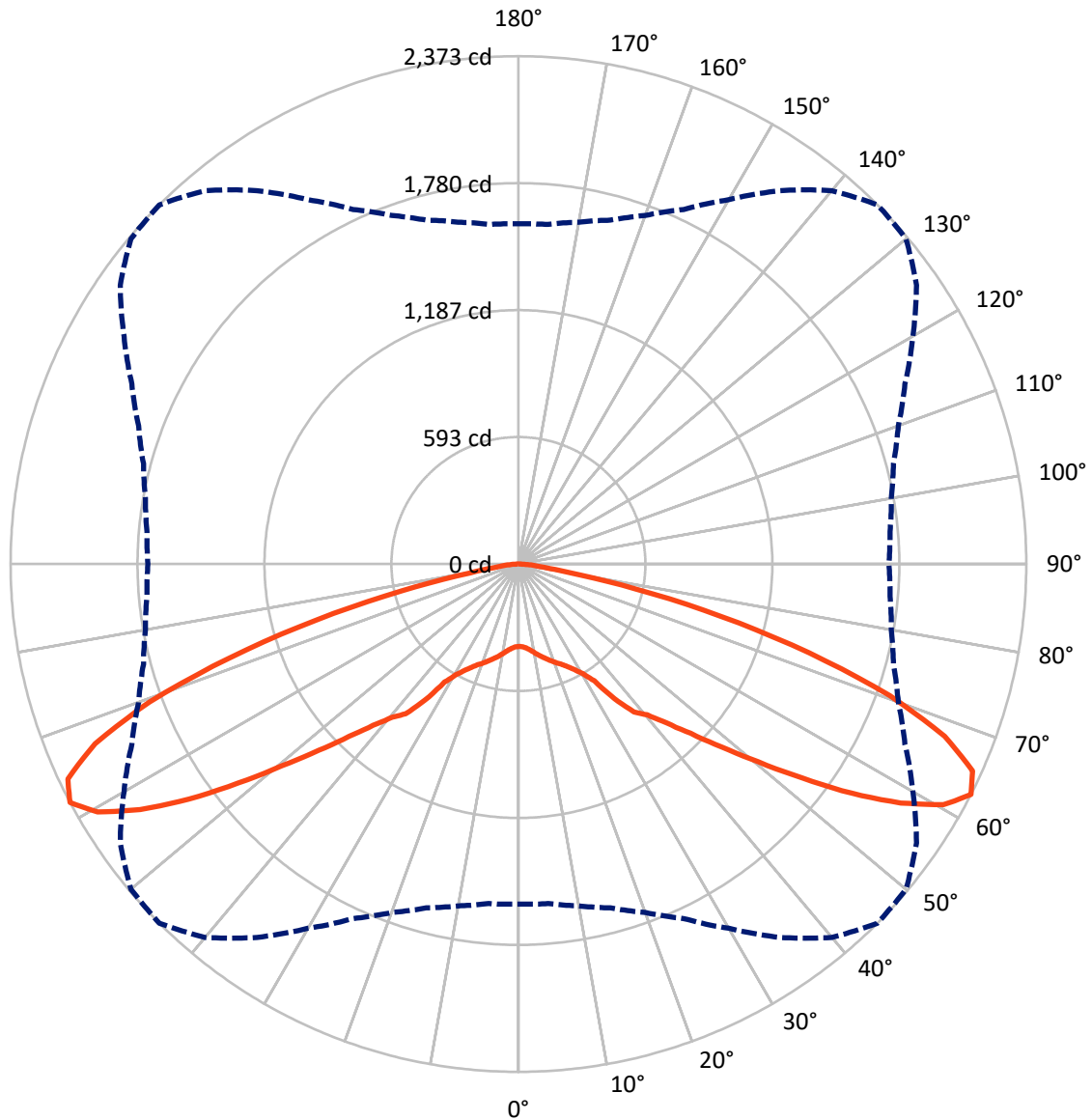
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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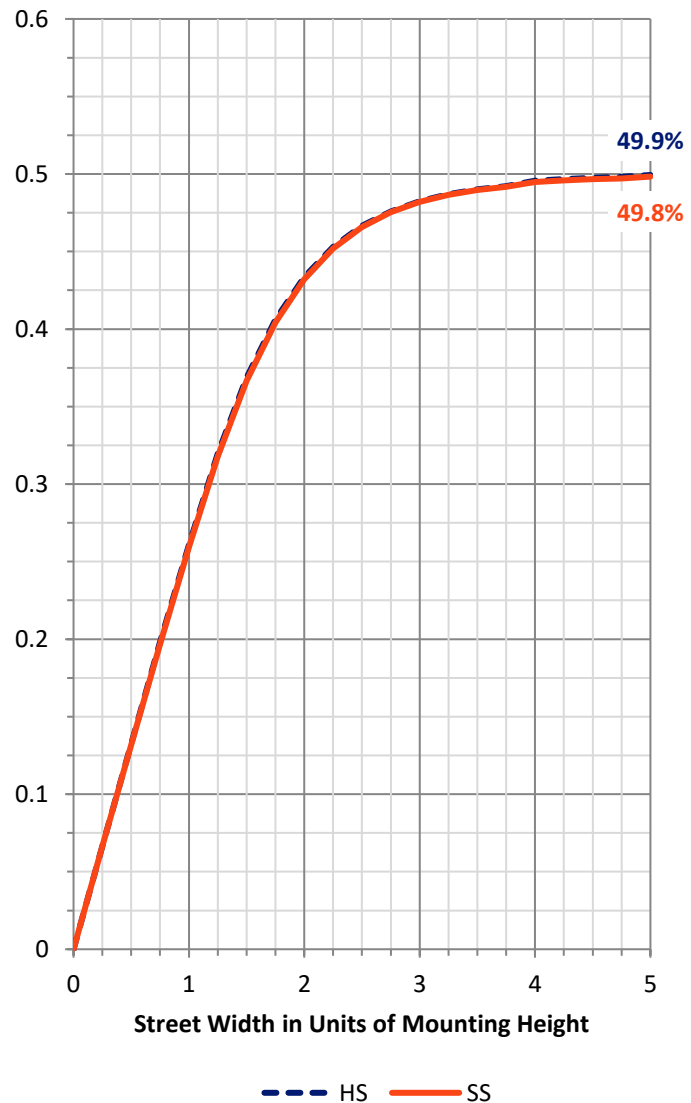
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2901.5	0.0	2901.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2901.5	0.0	2901.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5803.1	0.0	5803.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.7
10°-20°	130.5	2.2
20°-30°	252.3	4.3
30°-40°	488.5	8.4
40°-50°	882.1	15.2
50°-60°	1533.8	26.4
60°-70°	1741.3	30.0
70°-80°	675.1	11.6
80°-90°	60.9	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°	5803.1	100.0
0°-180°	5803.1	100.0



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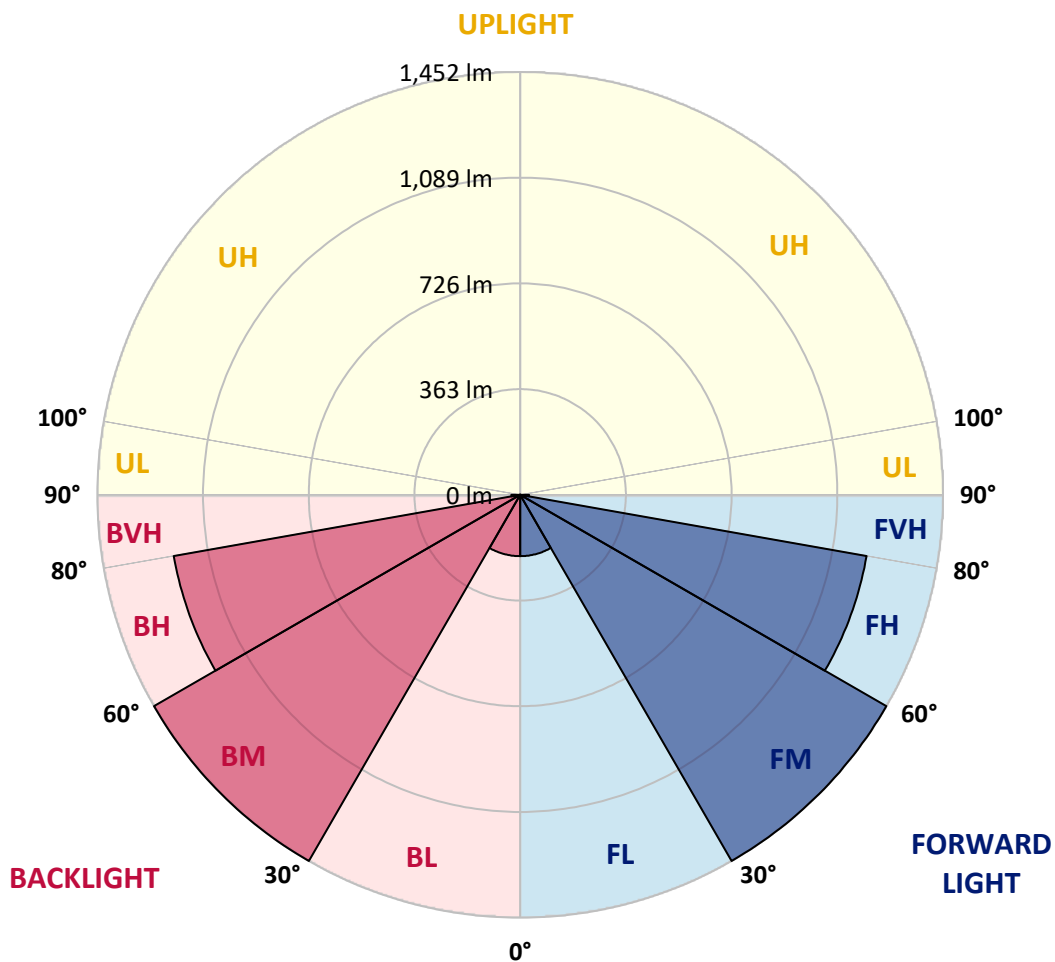
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.7	3.6			
FM	(30°-60°)	1452.2	25.0			
FH	(60°-80°)	1208.2	20.8			G1/1800
FVH	(80°-90°)	30.5	0.5			G1/100
BL	(0°-30°)	210.7	3.6	B1/500		
BM	(30°-60°)	1452.2	25.0	B2/2500		
BH	(60°-80°)	1208.2	20.8	B3/2500		G1/1800
BVH	(80°-90°)	30.5	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°	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2
2.5°	387.6	388.8	388.5	387.9	387.9	387.9	387.6	386.7	386.4	387.0	387.6
5°	396.6	396.6	396.6	396.6	396.0	396.0	395.4	394.8	395.1	394.5	394.2
7.5°	410.4	409.5	409.5	409.2	409.2	408.6	407.7	406.5	406.8	406.5	406.2
10°	426.6	426.9	426.0	426.9	425.4	425.1	423.9	423.3	423.0	422.1	422.1
12.5°	446.1	445.2	445.2	444.6	444.0	443.4	441.6	441.3	440.1	439.5	438.6
15°	464.4	464.1	462.9	461.7	461.4	460.8	458.7	457.5	457.2	455.7	454.5
17.5°	482.7	482.1	480.6	480.0	478.8	477.9	476.1	474.3	473.4	472.8	471.3
20°	502.2	501.6	500.1	498.9	497.4	496.2	493.5	492.0	491.1	490.2	489.0
22.5°	526.5	525.3	522.9	520.8	517.5	516.3	512.7	510.6	509.1	507.9	507.3
25°	552.9	553.2	549.9	547.2	543.3	540.0	535.5	533.1	531.6	530.4	530.1
27.5°	585.9	586.2	583.2	579.3	573.3	569.7	563.7	560.7	559.8	558.6	558.3
30°	638.1	635.4	630.3	624.0	618.6	610.8	602.1	599.1	596.1	595.2	595.2
32.5°	734.1	732.6	728.4	712.8	705.6	689.4	674.1	665.4	655.5	650.7	647.7
35°	801.3	800.7	797.4	792.0	787.5	784.2	775.2	773.7	771.9	771.9	774.3
37.5°	850.8	847.2	846.6	847.6	846.4	847.0	854.2	864.0	872.4	876.6	876.0
40°	924.0	919.0	922.0	919.8	917.2	916.6	919.0	922.8	926.8	926.8	925.8
42.5°	1019.8	1022.2	1023.4	1014.6	1009.0	1007.4	1013.2	1012.0	1015.8	1014.4	1010.4
45°	1162.0	1160.4	1158.4	1147.8	1138.8	1131.6	1133.2	1131.1	1131.4	1129.0	1126.0
47.5°	1305.4	1310.5	1301.8	1296.7	1286.5	1281.4	1285.6	1282.0	1288.9	1276.3	1270.3
50°	1444.6	1448.2	1445.2	1438.0	1438.0	1445.2	1450.3	1456.9	1466.5	1452.1	1430.5
52.5°	1558.6	1561.6	1566.1	1572.1	1586.8	1602.1	1623.7	1646.8	1665.1	1662.4	1637.8
55°	1628.2	1631.8	1639.3	1660.0	1686.4	1726.6	1775.5	1829.2	1871.2	1891.6	1873.6
57.5°	1651.6	1654.3	1674.7	1699.6	1740.7	1800.4	1882.3	1975.0	2055.7	2107.0	2098.9
60°	1646.2	1646.2	1666.9	1701.1	1758.7	1837.9	1953.7	2082.1	2205.7	2282.5	2271.1
62.5°	1589.5	1592.5	1622.2	1663.3	1732.9	1827.7	1965.7	2129.8	2277.7	2373.1	2363.8
65°	1465.3	1467.4	1499.5	1548.4	1626.1	1738.3	1889.2	2071.0	2240.5	2332.3	2314.9
67.5°	1264.6	1266.7	1292.8	1348.0	1430.2	1547.5	1710.4	1910.5	2076.4	2149.0	2096.8
70°	1006.0	1012.0	1028.8	1087.2	1149.6	1264.6	1414.6	1614.7	1771.3	1840.0	1782.4
72.5°	685.6	700.8	721.2	773.2	832.9	928.2	1047.6	1216.2	1342.0	1421.5	1370.2
75°	386.1	407.7	414.0	453.3	502.5	577.8	665.2	786.0	913.0	977.4	915.6
77.5°	166.8	184.5	192.3	210.6	249.0	280.5	333.6	415.2	513.3	558.6	484.5
80°	82.2	86.4	89.7	95.4	106.2	116.4	141.6	177.3	217.5	227.7	181.2
82.5°	63.6	66.6	72.3	76.8	79.5	82.2	84.6	89.4	93.3	95.4	90.0
85°	44.7	48.6	54.9	60.0	63.0	65.1	67.2	68.7	65.1	59.4	62.4
87.5°	11.7	15.3	21.3	23.1	26.1	27.6	27.0	27.9	25.2	18.3	20.4
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°	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2
2.5°	387.3	387.0	387.3	387.3	387.3	387.0	387.0	387.0
5°	394.2	394.2	394.5	393.9	393.9	394.2	393.9	393.6
7.5°	405.9	405.6	405.6	405.3	405.6	405.3	405.3	405.0
10°	421.5	420.9	421.2	420.3	420.3	420.0	420.0	420.0
12.5°	438.3	437.4	437.7	436.8	435.3	435.6	435.9	435.6
15°	454.5	453.6	452.7	452.1	451.2	451.5	451.5	451.2
17.5°	471.0	469.2	468.9	468.0	467.7	467.7	467.7	468.0
20°	488.1	486.9	486.6	485.7	485.4	486.3	486.6	486.0
22.5°	506.4	505.8	506.4	505.8	506.7	507.3	507.6	507.0
25°	529.5	528.9	529.8	531.9	533.1	533.7	535.2	534.6
27.5°	559.2	558.6	560.7	563.7	565.5	568.5	570.0	570.6
30°	597.6	600.3	601.5	607.5	608.7	613.5	613.5	615.6
32.5°	653.4	658.5	667.5	676.8	689.7	699.0	699.0	703.8
35°	775.8	777.9	784.8	786.3	789.0	792.0	789.0	791.4
37.5°	869.8	860.4	853.8	844.5	838.8	838.8	839.4	838.8
40°	917.8	914.2	911.2	903.4	902.2	901.8	901.8	903.0
42.5°	1003.6	994.8	990.0	983.5	981.4	980.8	980.5	981.1
45°	1115.2	1101.1	1088.2	1081.6	1075.9	1070.5	1072.3	1072.3
47.5°	1245.1	1223.2	1202.2	1190.8	1180.9	1176.4	1173.4	1172.5
50°	1403.2	1372.6	1345.6	1324.3	1309.9	1309.6	1311.1	1301.5
52.5°	1597.0	1548.7	1515.1	1486.3	1472.8	1471.3	1466.5	1461.1
55°	1811.8	1754.5	1699.0	1668.1	1650.4	1640.8	1635.1	1626.1
57.5°	2033.2	1956.1	1876.3	1826.8	1795.6	1774.0	1762.6	1757.5
60°	2203.9	2098.6	1993.3	1913.8	1861.9	1829.8	1810.0	1801.9
62.5°	2271.1	2128.3	1993.3	1888.9	1813.9	1769.5	1742.8	1731.1
65°	2191.0	2021.8	1868.2	1753.0	1669.3	1619.8	1590.7	1578.1
67.5°	1967.2	1817.8	1650.7	1536.1	1450.0	1401.1	1369.6	1360.3
70°	1649.2	1496.5	1336.9	1234.6	1157.8	1117.9	1085.2	1081.3
72.5°	1239.4	1107.7	970.9	886.2	824.4	758.4	741.6	750.0
75°	794.4	671.1	549.3	473.1	416.7	353.7	329.4	335.4
77.5°	376.2	291.3	210.3	162.6	136.5	116.7	111.6	108.6
80°	139.5	113.1	99.9	94.8	91.2	87.9	85.5	82.8
82.5°	90.3	88.2	85.5	84.6	81.9	77.7	69.9	66.6
85°	67.5	67.5	63.9	64.2	62.1	56.7	49.5	45.6
87.5°	19.8	17.7	16.2	15.0	14.7	13.2	9.6	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)