

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: P179968

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179968
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
Description: ICON SITE MEDIUM 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: 5997.8 lumens
Efficiency: N/A
Efficacy: 115.1 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

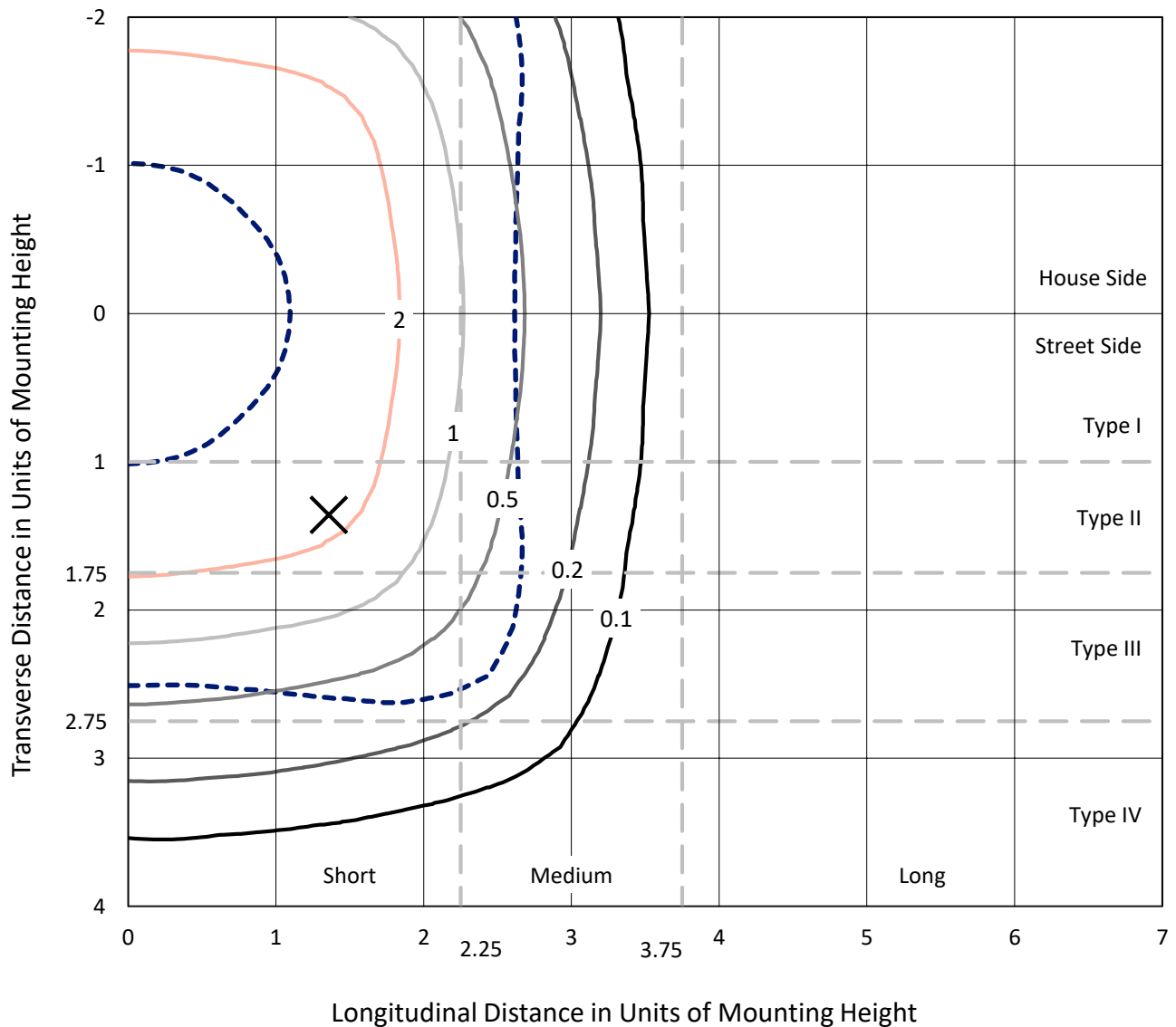
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

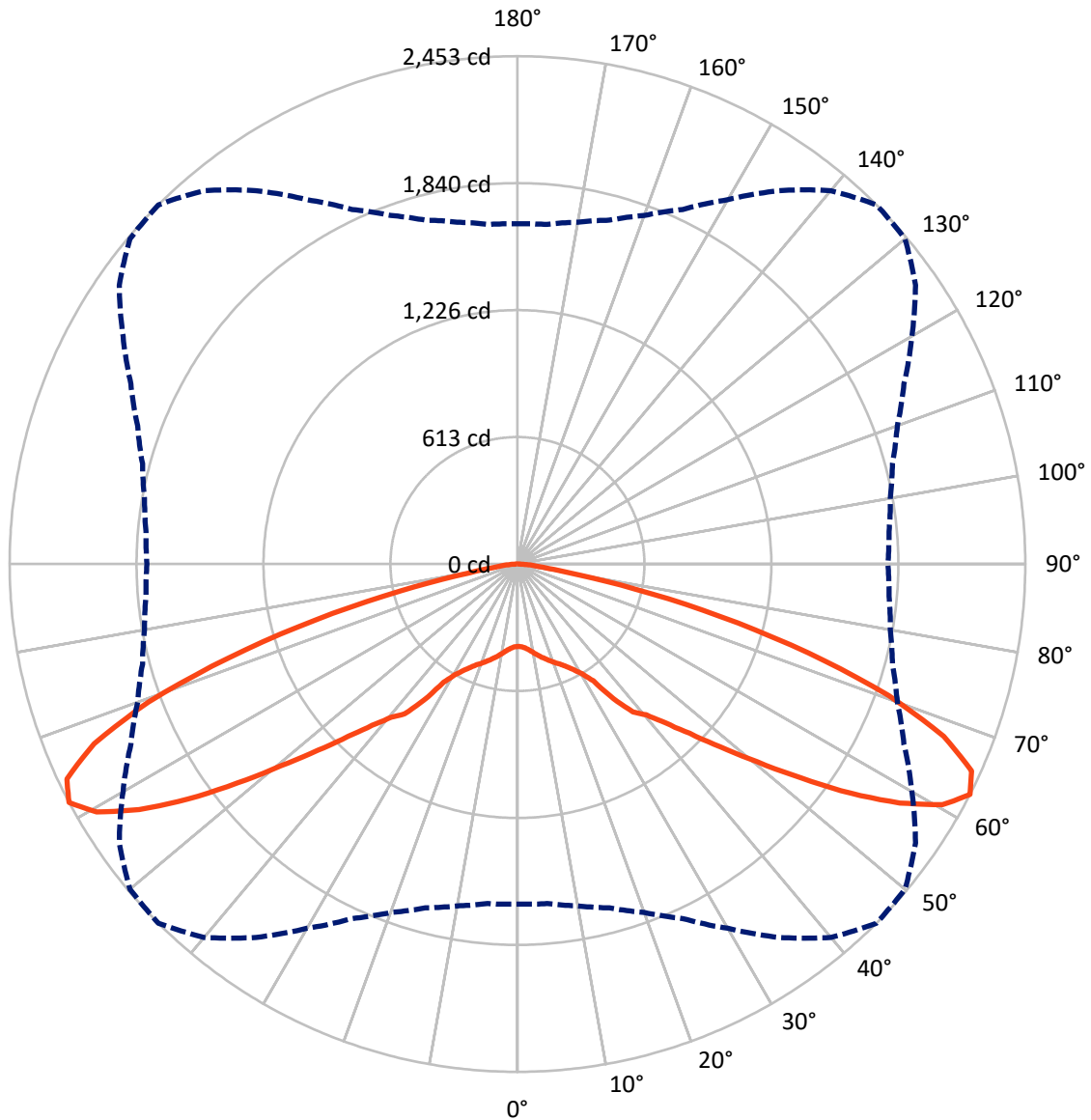
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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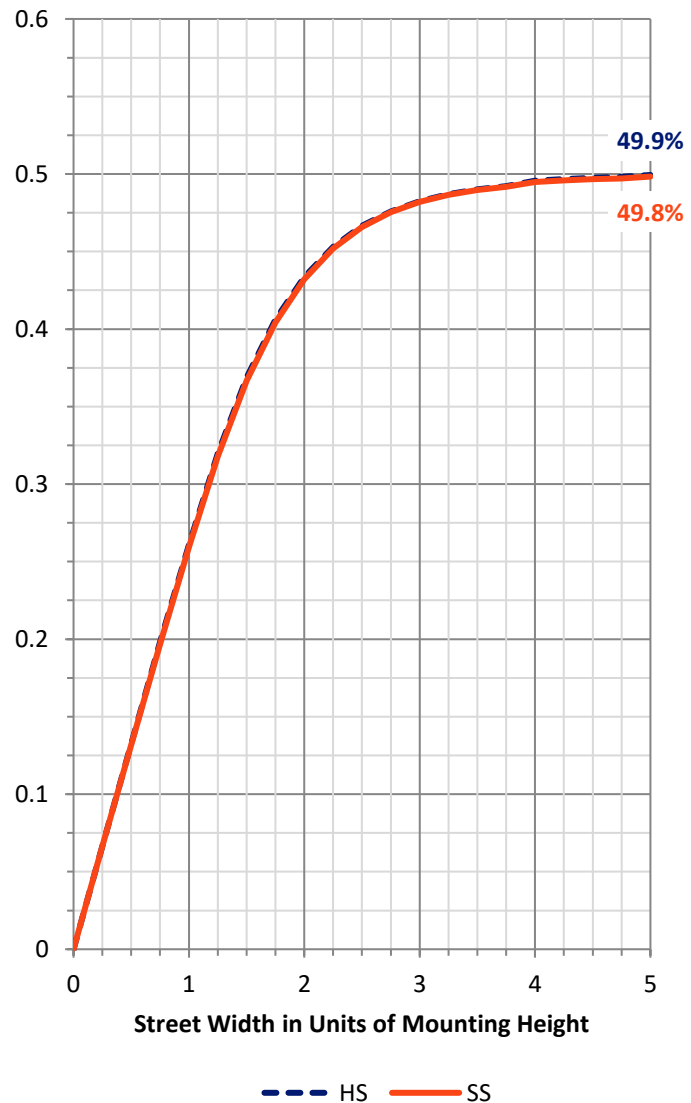
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2998.9	0.0	2998.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2998.9	0.0	2998.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5997.8	0.0	5997.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	0.7
10°-20°	134.9	2.2
20°-30°	260.8	4.3
30°-40°	504.9	8.4
40°-50°	911.7	15.2
50°-60°	1585.3	26.4
60°-70°	1799.7	30.0
70°-80°	697.7	11.6
80°-90°	62.9	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°	5997.8	100.0
0°-180°	5997.8	100.0



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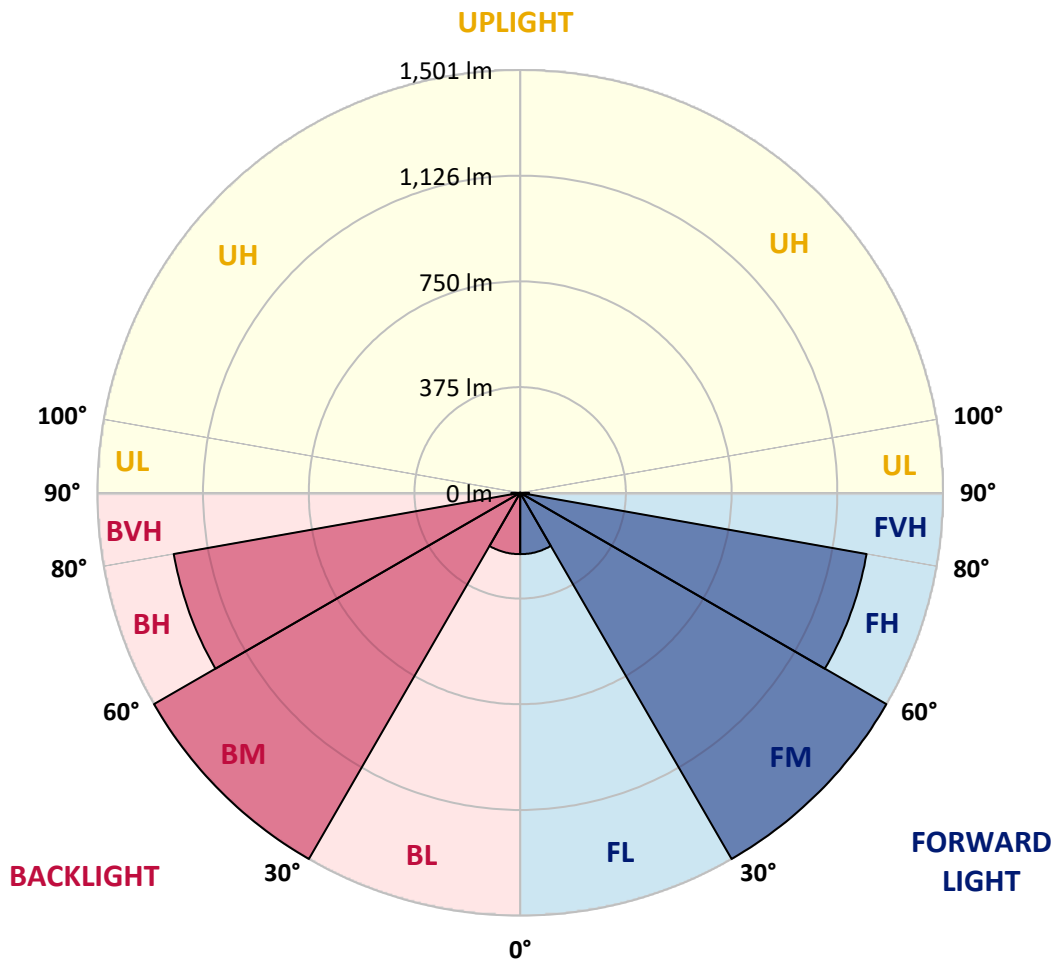
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.8	3.6			
FM	(30°-60°)	1500.9	25.0			
FH	(60°-80°)	1248.7	20.8			G1/1800
FVH	(80°-90°)	31.5	0.5			G1/100
BL	(0°-30°)	217.8	3.6	B1/500		
BM	(30°-60°)	1500.9	25.0	B2/2500		
BH	(60°-80°)	1248.7	20.8	B3/2500		G1/1800
BVH	(80°-90°)	31.5	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°	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1
2.5°	400.6	401.9	401.6	400.9	400.9	400.9	400.6	399.6	399.4	400.0	400.6
5°	409.9	409.9	409.9	409.9	409.3	409.3	408.7	408.0	408.4	407.8	407.4
7.5°	424.2	423.3	423.3	423.0	422.9	422.3	421.4	420.2	420.5	420.2	419.9
10°	440.9	441.3	440.4	441.2	439.7	439.4	438.1	437.6	437.2	436.3	436.3
12.5°	461.0	460.1	460.1	459.5	459.0	458.2	456.4	456.2	454.9	454.2	453.3
15°	480.0	479.6	478.5	477.2	476.9	476.3	474.0	472.9	472.6	471.1	469.8
17.5°	498.9	498.2	496.7	496.2	494.9	494.0	492.1	490.2	489.3	488.7	487.1
20°	519.1	518.4	516.9	515.6	514.0	512.9	510.0	508.5	507.5	506.6	505.5
22.5°	544.2	543.0	540.5	538.2	534.9	533.7	529.9	527.8	526.2	525.0	524.3
25°	571.4	571.7	568.4	565.6	561.6	558.1	553.5	551.1	549.4	548.2	547.9
27.5°	605.6	605.9	602.8	598.7	592.6	588.8	582.7	579.5	578.6	577.4	577.0
30°	659.5	656.7	651.5	645.0	639.4	631.4	622.3	619.3	616.1	615.2	615.3
32.5°	758.8	757.2	752.8	736.7	729.3	712.6	696.7	687.7	677.5	672.6	669.5
35°	828.3	827.6	824.2	818.6	814.0	810.6	801.3	799.6	797.8	797.8	800.4
37.5°	879.4	875.7	875.1	876.0	874.7	875.4	882.8	893.0	901.7	906.1	905.5
40°	955.1	949.8	952.8	950.7	947.9	947.4	949.8	953.9	957.8	957.9	956.9
42.5°	1054.0	1056.5	1057.7	1048.7	1042.8	1041.3	1047.1	1046.0	1049.9	1048.4	1044.4
45°	1200.9	1199.4	1197.2	1186.4	1177.1	1169.6	1171.2	1168.9	1169.3	1166.9	1163.7
47.5°	1349.2	1354.4	1345.4	1340.1	1329.6	1324.3	1328.7	1324.9	1332.1	1319.1	1312.9
50°	1493.0	1496.8	1493.7	1486.2	1486.2	1493.7	1499.0	1505.8	1515.7	1500.8	1478.5
52.5°	1610.8	1614.0	1618.6	1624.8	1640.0	1655.8	1678.1	1702.0	1720.9	1718.2	1692.8
55°	1682.8	1686.5	1694.3	1715.7	1742.9	1784.6	1835.1	1890.5	1934.0	1955.1	1936.5
57.5°	1707.0	1709.8	1730.8	1756.7	1799.1	1860.8	1945.5	2041.3	2124.7	2177.7	2169.3
60°	1701.4	1701.4	1722.8	1758.2	1817.7	1899.5	2019.3	2152.0	2279.6	2359.1	2347.3
62.5°	1642.8	1646.0	1676.6	1719.1	1791.1	1888.9	2031.6	2201.2	2354.2	2452.7	2443.1
65°	1514.4	1516.7	1549.8	1600.4	1680.7	1796.7	1952.6	2140.5	2315.7	2410.5	2392.6
67.5°	1307.0	1309.1	1336.2	1393.2	1478.1	1599.5	1767.7	1974.5	2146.1	2221.1	2167.1
70°	1039.6	1046.0	1063.3	1123.7	1188.3	1307.0	1462.1	1668.8	1830.7	1901.8	1842.2
72.5°	708.6	724.4	745.4	799.1	860.8	959.4	1082.8	1257.0	1387.0	1469.2	1416.2
75°	399.1	421.4	427.9	468.5	519.4	597.2	687.4	812.5	943.6	1010.2	946.4
77.5°	172.5	190.7	198.8	217.7	257.3	289.9	344.8	429.2	530.5	577.4	500.8
80°	85.0	89.3	92.7	98.6	109.8	120.4	146.3	183.3	224.7	235.4	187.3
82.5°	65.7	68.8	74.8	79.3	82.2	84.9	87.4	92.5	96.5	98.6	93.0
85°	46.2	50.2	56.7	62.0	65.1	67.3	69.5	71.1	67.3	61.4	64.6
87.5°	12.1	15.8	22.0	23.8	27.0	28.5	27.9	28.8	26.0	18.9	21.0
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°	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1
2.5°	400.4	400.0	400.4	400.3	400.4	400.0	400.0	400.0
5°	407.4	407.4	407.7	407.1	407.2	407.4	407.1	406.8
7.5°	419.5	419.2	419.3	419.0	419.2	419.0	418.9	418.6
10°	435.7	435.1	435.4	434.4	434.4	434.0	434.0	434.1
12.5°	453.0	452.1	452.5	451.5	449.9	450.2	450.5	450.2
15°	469.8	468.8	467.9	467.4	466.4	466.6	466.7	466.3
17.5°	486.9	485.0	484.7	483.7	483.4	483.4	483.4	483.7
20°	504.5	503.3	502.9	502.0	501.8	502.6	502.9	502.3
22.5°	523.4	522.8	523.4	522.8	523.7	524.3	524.7	524.0
25°	547.4	546.6	547.5	549.8	551.0	551.6	553.1	552.6
27.5°	578.1	577.3	579.5	582.7	584.6	587.5	589.1	589.8
30°	617.7	620.5	621.7	627.9	629.1	634.1	634.1	636.3
32.5°	675.4	680.7	690.0	699.5	712.8	722.4	722.5	727.4
35°	801.9	804.1	811.2	812.7	815.4	818.6	815.4	818.0
37.5°	899.0	889.3	882.4	872.9	867.0	867.0	867.5	867.0
40°	948.5	944.7	941.7	933.6	932.5	932.1	932.1	933.3
42.5°	1037.2	1028.2	1023.3	1016.5	1014.3	1013.7	1013.4	1014.0
45°	1152.6	1138.0	1124.7	1117.8	1111.9	1106.4	1108.3	1108.2
47.5°	1286.9	1264.2	1242.4	1230.7	1220.5	1215.8	1212.8	1211.8
50°	1450.2	1418.6	1390.7	1368.7	1353.9	1353.5	1355.0	1345.1
52.5°	1650.6	1600.6	1566.0	1536.2	1522.2	1520.6	1515.7	1510.1
55°	1872.6	1813.4	1755.9	1724.1	1705.7	1695.8	1689.9	1680.7
57.5°	2101.4	2021.8	1939.2	1888.0	1855.8	1833.5	1821.7	1816.5
60°	2277.8	2168.9	2060.1	1978.1	1924.4	1891.2	1870.7	1862.3
62.5°	2347.4	2199.7	2060.1	1952.3	1874.8	1828.8	1801.3	1789.1
65°	2264.6	2089.7	1930.9	1811.8	1725.2	1674.1	1644.1	1631.0
67.5°	2033.1	1878.7	1706.1	1587.5	1498.6	1448.0	1415.5	1405.9
70°	1704.5	1546.7	1381.8	1276.0	1196.6	1155.4	1121.5	1117.5
72.5°	1280.9	1144.8	1003.4	915.9	852.1	783.9	766.5	775.2
75°	821.1	693.7	567.7	488.9	430.7	365.6	340.5	346.7
77.5°	388.8	301.0	217.3	168.1	141.1	120.6	115.3	112.3
80°	144.2	116.8	103.3	98.0	94.2	90.9	88.4	85.6
82.5°	93.4	91.2	88.4	87.4	84.7	80.4	72.3	68.8
85°	69.8	69.8	66.0	66.3	64.2	58.6	51.2	47.2
87.5°	20.5	18.2	16.7	15.5	15.2	13.6	10.0	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)