

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: P180168

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180168
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5917 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

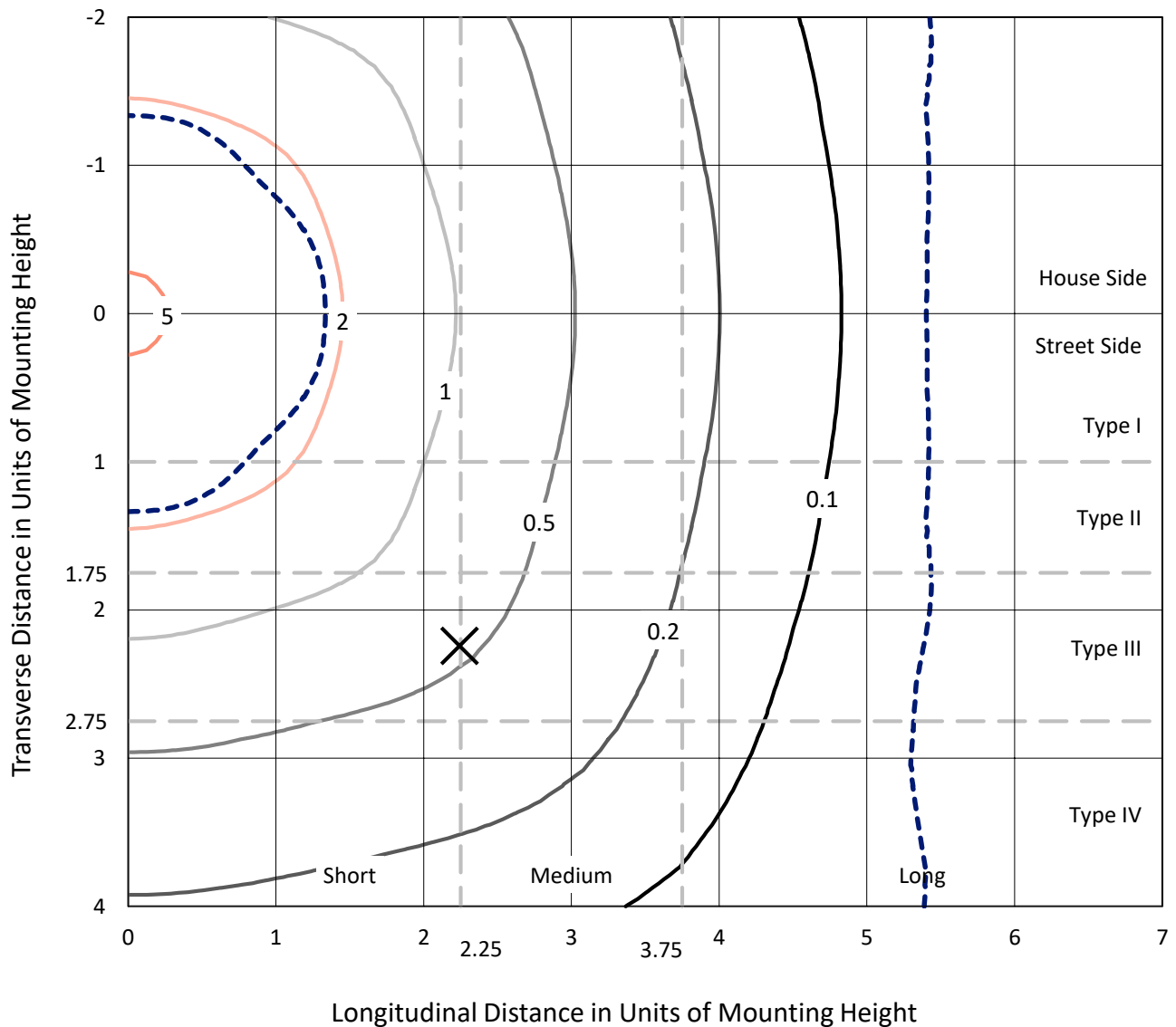
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

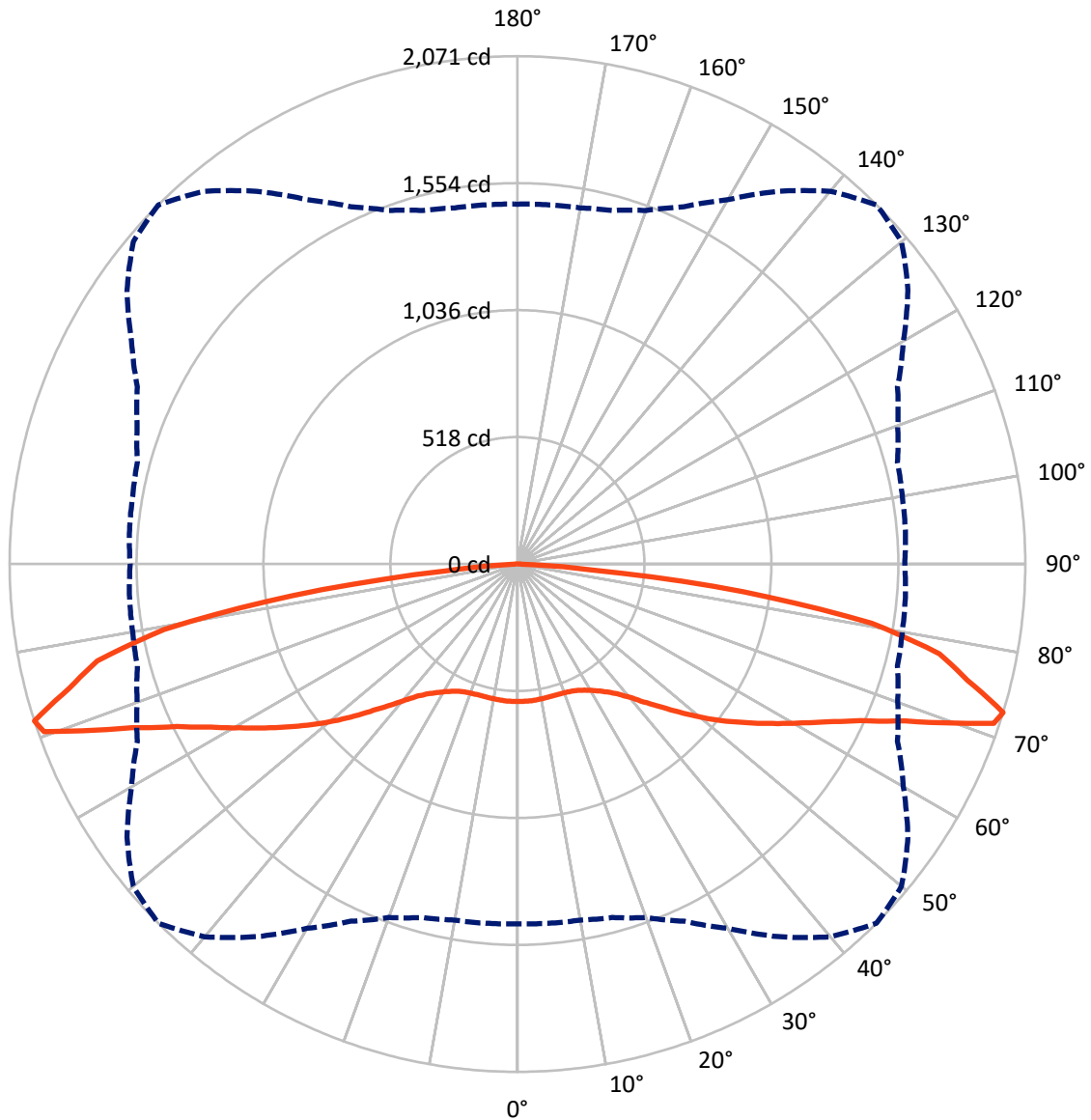
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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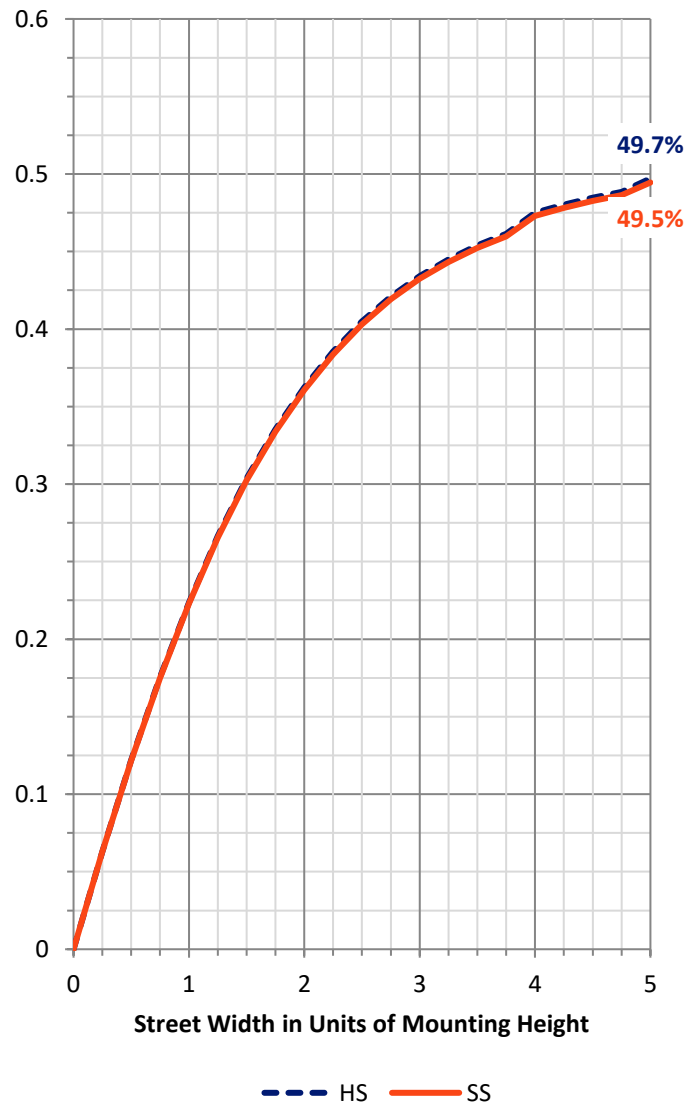
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2958.5	0.0	2958.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2958.5	0.0	2958.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5917.0	0.0	5917.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	0.9
10°-20°	158.1	2.7
20°-30°	264.7	4.5
30°-40°	403.5	6.8
40°-50°	644.3	10.9
50°-60°	990.6	16.7
60°-70°	1442.3	24.4
70°-80°	1624.8	27.5
80°-90°	335.4	5.7
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°	5917.0	100.0
0°-180°	5917.0	100.0



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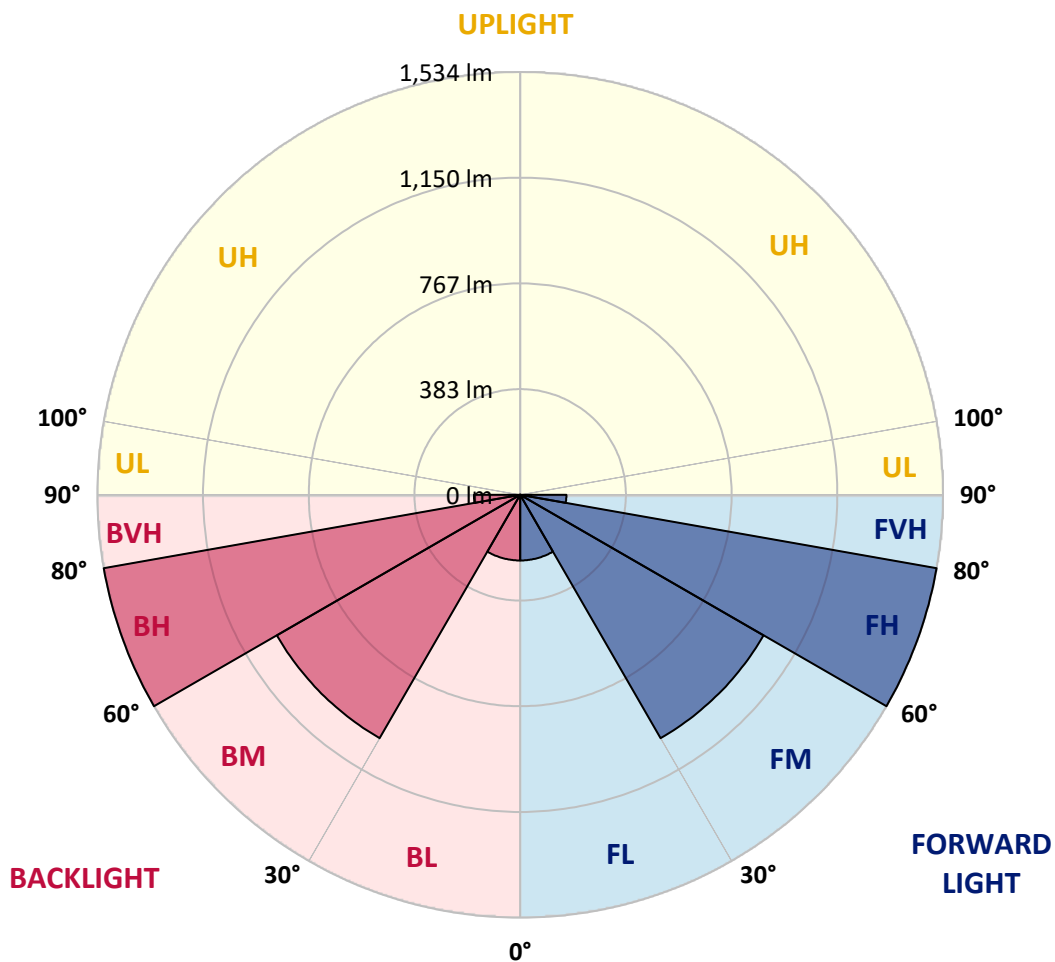
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.1	4.0			
FM (30°-60°)	1019.2	17.2			
FH (60°-80°)	1533.6	25.9			G1/1800
FVH (80°-90°)	167.7	2.8			G2/225
BL (0°-30°)	238.1	4.0	B1/500		
BM (30°-60°)	1019.2	17.2	B2/2500		
BH (60°-80°)	1533.6	25.9	B3/2500		G1/1800
BVH (80°-90°)	167.7	2.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	561.5	561.9	561.7	561.4	561.6	561.4	561.1	560.9	559.8	560.5	561.4
5°	561.6	561.2	561.1	560.9	560.9	561.4	560.9	560.5	560.4	560.7	560.2
7.5°	561.3	560.6	560.3	560.2	560.3	560.5	560.0	559.4	559.8	559.4	558.8
10°	560.3	559.8	560.0	559.4	559.5	559.4	558.8	558.3	558.6	558.1	557.4
12.5°	560.6	559.8	559.6	559.4	559.3	559.1	558.3	557.5	557.7	557.4	556.6
15°	560.6	560.2	560.0	559.4	559.3	558.9	558.0	557.7	557.7	557.2	556.3
17.5°	560.9	560.7	560.7	559.8	559.5	559.4	558.3	557.9	558.3	557.4	556.7
20°	561.9	561.6	561.7	561.3	560.7	560.6	559.8	559.5	559.7	559.5	557.9
22.5°	563.7	563.7	564.0	563.9	563.7	563.9	563.3	563.3	563.4	563.4	562.0
25°	569.0	568.8	569.1	569.1	569.3	570.4	569.9	569.8	570.5	570.6	569.1
27.5°	579.0	578.6	578.9	579.3	580.0	581.4	581.1	581.6	582.8	582.5	581.2
30°	590.3	590.1	590.9	591.8	592.4	594.6	593.7	596.0	597.0	598.0	597.0
32.5°	607.1	607.2	608.6	609.1	610.5	612.7	613.0	614.9	616.3	617.9	616.7
35°	629.4	629.2	630.2	631.3	633.0	635.0	635.8	638.3	640.5	641.6	639.5
37.5°	663.6	661.9	663.8	664.5	665.9	666.3	668.5	671.6	674.0	673.7	672.3
40°	709.8	709.5	708.7	707.7	710.0	710.7	710.7	714.9	718.6	718.0	717.9
42.5°	763.7	762.3	761.4	761.4	762.6	763.0	767.8	770.9	773.5	774.1	773.5
45°	821.8	820.3	820.7	820.0	820.5	822.5	825.3	831.0	836.0	836.1	833.5
47.5°	884.1	879.7	883.2	878.3	881.2	882.8	889.8	898.1	906.8	908.4	906.1
50°	947.4	946.8	946.5	945.6	947.0	950.4	958.9	972.1	980.5	986.1	982.3
52.5°	1016.4	1014.1	1013.0	1011.4	1012.8	1019.5	1031.4	1043.0	1058.1	1064.4	1059.3
55°	1083.7	1083.0	1078.9	1078.8	1081.7	1092.1	1105.1	1119.3	1135.4	1142.6	1140.8
57.5°	1152.8	1148.4	1147.2	1145.3	1151.2	1160.9	1176.8	1202.3	1219.3	1227.3	1222.7
60°	1220.5	1217.1	1214.4	1213.8	1217.9	1231.4	1254.4	1285.0	1305.9	1316.5	1309.0
62.5°	1293.0	1290.8	1287.8	1284.2	1292.7	1310.2	1338.8	1372.6	1403.5	1416.4	1405.1
65°	1383.3	1378.8	1375.4	1370.9	1377.9	1399.8	1435.7	1483.3	1524.7	1539.8	1531.7
67.5°	1478.4	1474.2	1474.6	1471.8	1484.2	1514.7	1560.9	1625.6	1681.1	1707.0	1691.8
70°	1561.6	1563.9	1564.5	1575.8	1597.2	1643.7	1720.7	1821.9	1906.1	1945.6	1929.3
71°	1537.0	1542.1	1550.1	1561.9	1598.7	1653.8	1758.7	1881.4	1981.9	2048.8	2026.4
72.5°	1467.6	1470.7	1474.7	1492.7	1534.4	1607.3	1715.4	1855.5	1984.7	2071.4	2045.3
75°	1367.1	1370.1	1371.5	1384.0	1422.1	1485.6	1584.5	1708.8	1822.8	1896.6	1889.3
77.5°	1215.4	1216.0	1226.8	1246.1	1288.8	1361.6	1465.8	1594.7	1701.9	1759.3	1722.8
80°	872.9	867.0	878.1	903.1	955.8	1039.3	1145.9	1293.2	1412.1	1465.8	1409.3
82.5°	332.1	350.0	378.4	419.7	437.5	530.2	629.8	716.3	816.5	928.4	900.3
85°	35.7	40.2	50.4	62.5	78.9	109.1	150.8	205.9	253.8	298.2	264.8
87.5°	13.4	13.7	15.2	17.5	17.9	18.6	19.8	23.1	21.6	18.6	15.1
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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	560.7	560.7	560.7	560.7	560.7	560.2	560.4	560.0
5°	560.5	560.0	560.2	560.4	560.2	560.5	560.0	560.4
7.5°	559.7	558.8	559.1	559.1	558.8	559.3	558.9	558.7
10°	558.1	556.8	557.5	557.2	557.0	557.2	557.2	557.2
12.5°	556.7	556.0	556.1	555.9	555.8	556.3	556.1	556.3
15°	556.5	555.2	555.1	554.8	554.9	555.2	555.2	555.7
17.5°	556.1	554.6	554.4	554.1	554.2	554.9	555.1	554.8
20°	557.0	555.8	555.5	555.2	555.1	555.8	555.6	555.7
22.5°	561.4	559.8	559.7	558.5	558.0	558.5	558.1	558.1
25°	568.4	566.5	565.9	564.2	563.0	563.0	562.5	562.2
27.5°	580.9	578.1	577.5	576.1	574.4	574.7	573.8	573.6
30°	595.5	593.0	590.9	588.8	586.8	586.1	584.9	584.7
32.5°	614.6	611.8	609.1	606.7	603.9	602.8	600.9	600.0
35°	638.0	634.2	631.2	629.4	626.7	625.3	624.0	625.5
37.5°	670.7	666.2	664.7	662.6	660.7	658.6	659.1	658.6
40°	716.0	711.9	710.4	706.8	706.3	703.9	705.4	703.9
42.5°	771.9	764.5	763.4	760.6	759.7	758.3	758.9	757.9
45°	832.9	826.2	824.9	820.5	820.7	817.3	818.6	818.6
47.5°	901.4	894.4	888.7	885.4	884.2	882.1	883.3	883.2
50°	972.1	962.6	956.3	950.0	947.2	947.9	945.8	949.4
52.5°	1048.1	1034.0	1024.9	1018.9	1013.7	1014.7	1015.1	1016.2
55°	1126.7	1108.7	1095.6	1087.7	1083.0	1083.3	1084.7	1086.0
57.5°	1205.8	1183.3	1165.6	1153.8	1150.7	1152.1	1152.1	1152.0
60°	1287.7	1260.8	1238.0	1224.7	1221.9	1221.1	1227.2	1225.1
62.5°	1375.8	1343.5	1319.8	1302.8	1298.8	1301.6	1307.0	1305.8
65°	1492.6	1447.7	1417.4	1400.5	1393.7	1396.5	1403.7	1403.5
67.5°	1643.2	1580.5	1540.3	1518.6	1513.7	1517.0	1521.1	1525.0
70°	1868.3	1778.8	1721.4	1674.4	1654.2	1650.4	1654.4	1654.6
71°	1947.5	1844.7	1753.3	1696.0	1663.0	1649.0	1650.1	1643.2
72.5°	1944.2	1817.5	1710.7	1650.7	1604.8	1593.7	1588.3	1579.8
75°	1813.2	1699.1	1606.3	1540.9	1496.8	1483.5	1474.0	1473.5
77.5°	1644.3	1560.2	1458.0	1388.7	1334.9	1313.0	1303.3	1302.9
80°	1321.9	1195.8	1121.1	1079.4	1014.4	995.6	975.8	968.4
82.5°	799.4	624.7	507.9	451.4	420.0	345.9	310.4	293.6
85°	186.2	132.3	91.2	59.8	43.1	34.2	26.3	23.3
87.5°	12.6	10.0	8.8	7.1	5.4	5.3	3.3	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)