

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: P180073

Luminaire Tested: **ICM-F02-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180073
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889.9 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

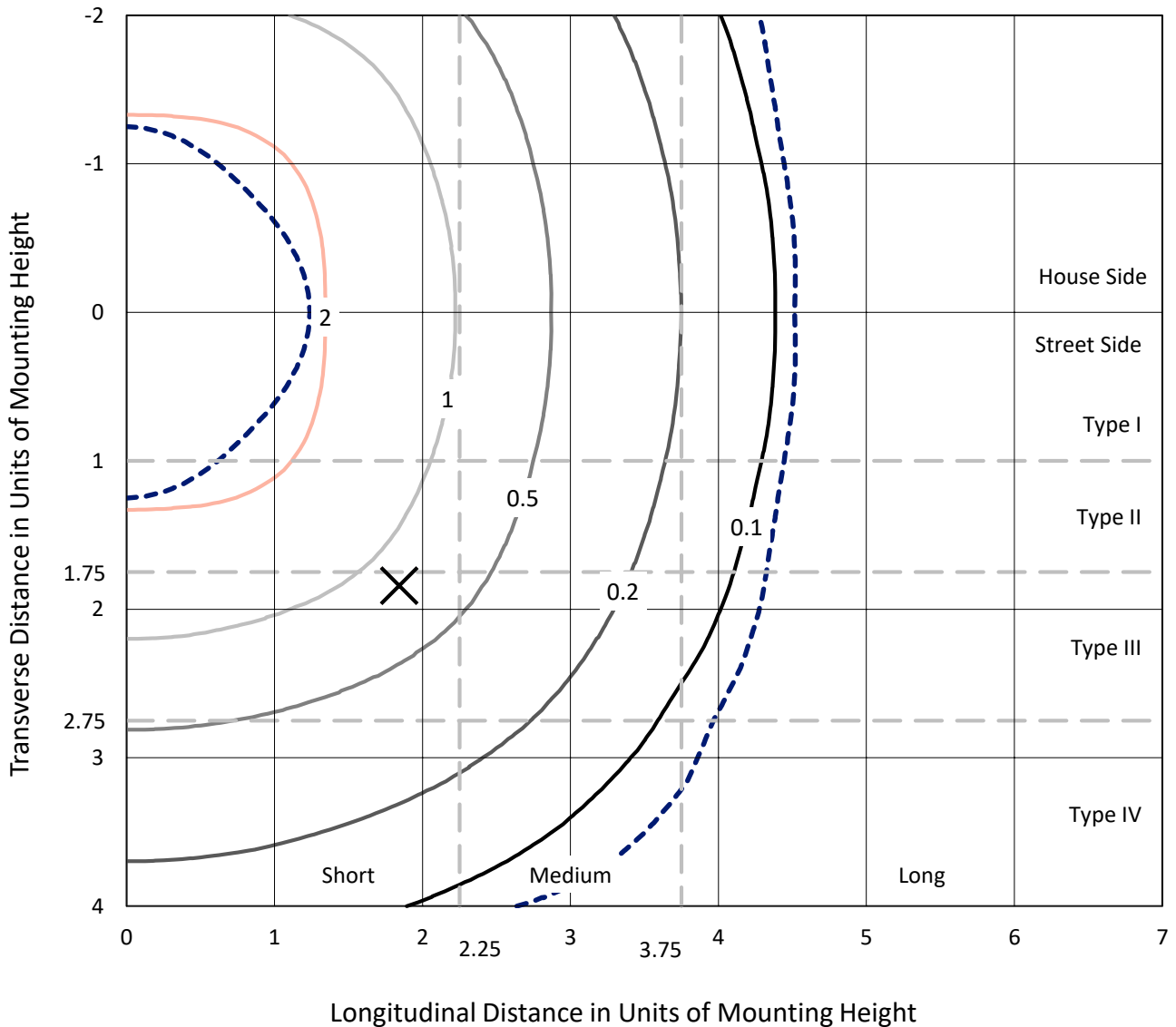
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

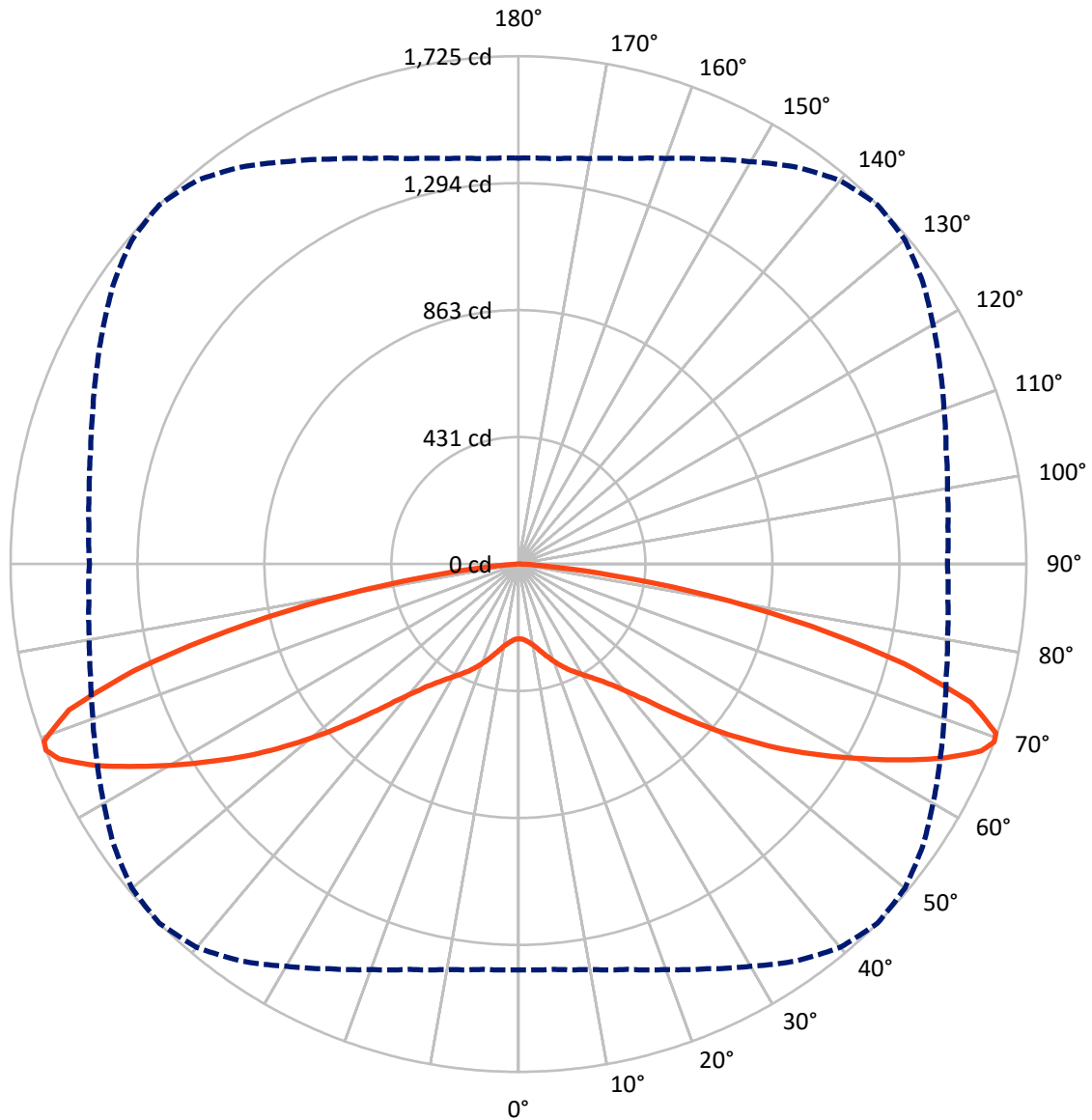
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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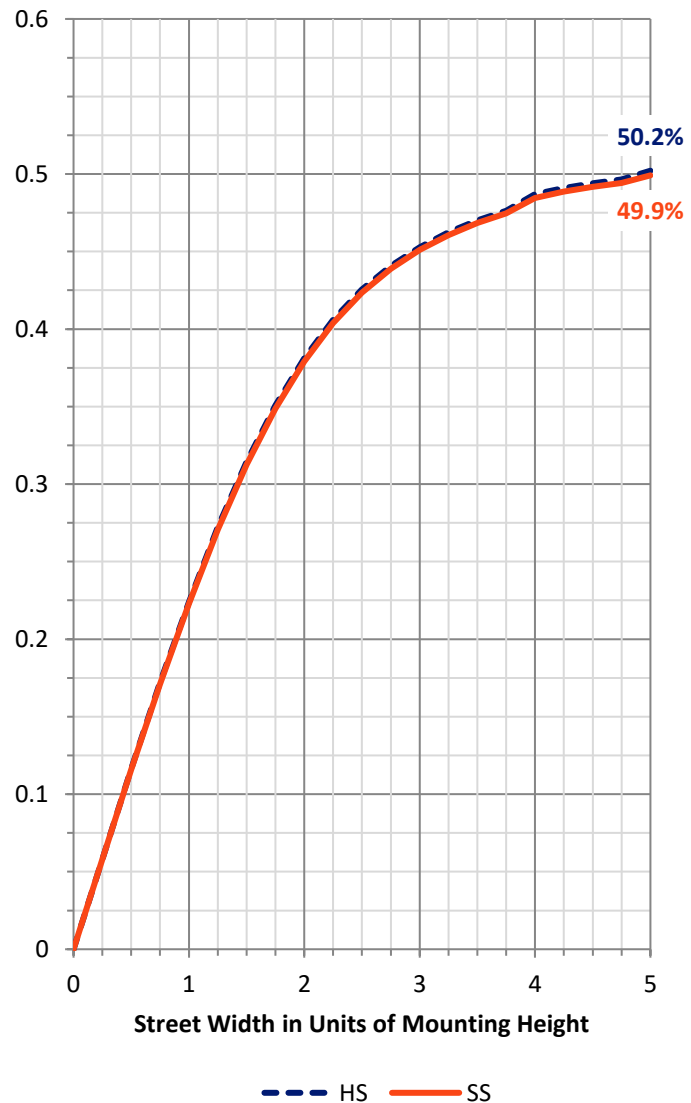
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2444.9	0.0	2444.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2444.9	0.0	2444.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4889.9	0.0	4889.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.5
10°-20°	90.0	1.8
20°-30°	182.3	3.7
30°-40°	305.7	6.3
40°-50°	539.2	11.0
50°-60°	950.8	19.4
60°-70°	1451.6	29.7
70°-80°	1213.0	24.8
80°-90°	131.8	2.7
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°	4889.9	100.0
0°-180°	4889.9	100.0



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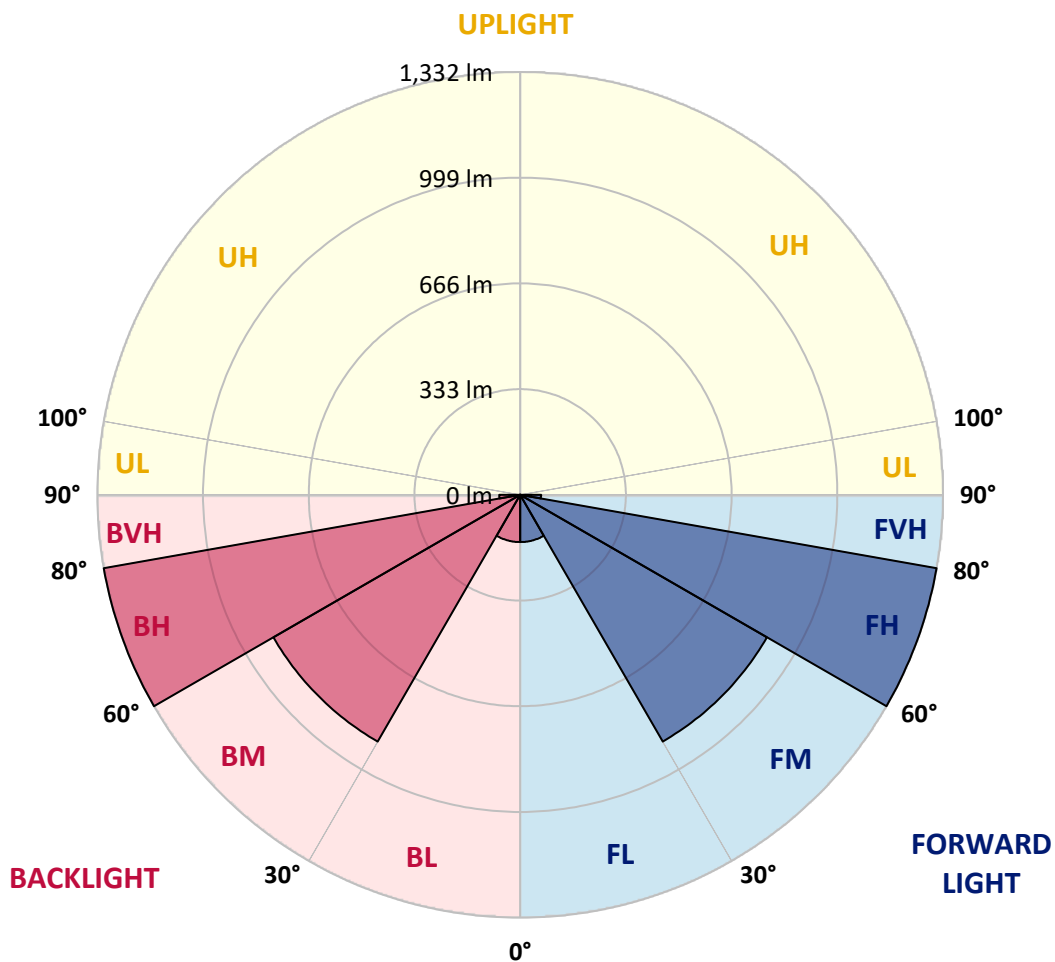
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.9	3.0			
FM	(30°-60°)	897.8	18.4			
FH	(60°-80°)	1332.3	27.2			G1/1800
FVH	(80°-90°)	65.9	1.3			G1/100
BL	(0°-30°)	148.9	3.0	B1/500		
BM	(30°-60°)	897.8	18.4	B1/1000		
BH	(60°-80°)	1332.3	27.2	B3/2500		G1/1800
BVH	(80°-90°)	65.9	1.3			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°	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0
2.5°	256.0	256.5	256.0	256.0	256.0	256.0	256.0	255.4	255.4	255.4	256.0
5°	261.1	261.6	261.1	261.6	261.6	261.6	261.6	261.1	261.1	261.1	261.1
7.5°	269.3	269.3	269.3	269.8	269.3	269.3	269.8	269.3	269.3	269.3	269.3
10°	281.0	280.6	280.6	280.6	280.6	280.6	281.0	281.0	281.0	280.6	280.6
12.5°	295.4	294.9	295.4	295.4	295.9	295.9	295.9	295.9	295.9	295.9	295.4
15°	312.8	312.8	312.8	313.3	314.3	314.3	313.9	314.3	314.3	314.3	314.3
17.5°	332.3	333.3	332.3	332.7	333.3	332.7	333.8	334.3	334.8	334.3	332.7
20°	352.2	352.7	352.7	352.7	352.7	353.8	354.2	354.2	355.8	355.3	354.8
22.5°	371.2	372.2	372.2	372.7	372.7	374.2	374.2	374.2	375.3	376.3	375.3
25°	391.2	390.6	390.6	391.6	392.2	394.2	394.2	395.3	396.7	397.3	396.3
27.5°	409.0	408.6	408.6	410.0	410.6	413.1	413.1	415.2	416.2	416.7	415.7
30°	428.0	428.0	427.4	429.0	430.5	432.6	433.6	435.6	437.2	437.7	436.7
32.5°	450.5	449.5	450.0	451.1	452.1	454.1	455.6	458.2	460.3	460.7	459.7
35°	476.1	474.6	475.1	476.1	477.7	480.7	483.3	484.8	487.9	488.9	486.9
37.5°	504.3	504.7	504.3	506.8	509.4	513.0	516.1	518.1	521.2	522.7	521.2
40°	544.2	542.7	544.2	546.8	550.9	555.4	561.6	563.2	566.2	569.3	565.7
42.5°	595.9	594.9	598.5	600.6	605.1	610.2	618.0	622.1	626.6	628.7	625.6
45°	663.5	663.5	667.6	668.1	675.3	682.0	692.7	697.8	706.5	706.5	706.5
47.5°	738.2	741.3	743.9	749.0	754.1	766.4	777.1	788.4	796.6	797.6	796.1
50°	815.5	818.6	826.3	833.5	844.7	860.1	871.8	886.7	893.9	900.0	898.0
52.5°	901.0	901.6	910.8	920.0	936.4	953.3	972.2	987.5	1000.4	1006.0	1001.4
55°	994.7	995.7	1003.9	1013.7	1032.1	1051.5	1075.1	1091.0	1107.4	1117.6	1110.0
57.5°	1096.1	1096.6	1104.8	1116.6	1138.6	1158.1	1180.6	1203.1	1218.4	1227.6	1222.5
60°	1208.2	1210.8	1216.9	1231.7	1252.8	1273.2	1295.7	1315.7	1333.7	1343.4	1338.2
62.5°	1328.0	1330.6	1339.3	1351.1	1369.5	1392.0	1413.5	1439.1	1454.0	1464.8	1457.0
65°	1408.4	1413.0	1426.8	1442.7	1469.9	1499.0	1524.1	1558.9	1576.8	1589.6	1582.4
67.5°	1413.5	1416.1	1432.9	1457.0	1493.4	1537.4	1588.6	1642.9	1678.1	1695.1	1682.8
69°	1378.7	1382.2	1398.7	1425.8	1466.2	1517.4	1578.3	1646.0	1700.2	1725.3	1713.5
70°	1339.3	1347.0	1364.8	1394.6	1434.0	1487.7	1550.7	1622.9	1686.4	1720.7	1712.0
72.5°	1256.4	1258.4	1270.1	1293.7	1323.9	1368.5	1427.8	1495.9	1556.4	1605.5	1612.7
75°	1115.1	1121.7	1130.4	1146.2	1161.6	1193.9	1233.8	1280.4	1315.7	1353.6	1355.2
77.5°	842.7	862.6	869.3	872.8	879.5	905.1	939.9	980.4	1009.6	1015.7	1014.7
80°	378.3	404.9	411.1	440.3	458.2	500.7	554.0	615.9	657.3	662.0	650.7
82.5°	74.2	79.3	92.7	115.7	157.7	182.8	217.6	261.1	301.0	324.1	310.2
85°	24.6	26.1	30.2	33.3	38.4	43.5	52.7	65.5	81.4	90.1	80.4
87.5°	9.8	9.8	11.3	12.3	13.3	13.3	13.3	12.3	11.8	9.8	8.7
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°	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0
2.5°	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4
5°	261.1	260.6	260.6	260.1	260.1	260.1	260.1	260.1
7.5°	268.7	268.3	267.7	268.3	267.7	267.7	267.7	267.7
10°	280.6	279.5	279.0	278.5	278.5	278.5	278.0	278.0
12.5°	294.4	294.4	293.9	293.4	292.3	292.8	292.3	291.3
15°	313.3	312.3	311.8	311.3	310.2	310.2	310.2	309.8
17.5°	332.3	331.3	331.3	329.7	329.2	329.2	329.2	329.7
20°	353.2	351.7	350.7	349.7	348.7	349.1	348.1	349.1
22.5°	374.2	372.2	371.2	369.7	368.1	368.1	367.6	366.6
25°	394.7	392.2	391.2	389.6	387.5	387.5	386.5	385.5
27.5°	414.1	411.6	410.6	407.5	405.5	404.9	403.9	403.4
30°	435.6	432.6	431.1	428.0	424.9	424.4	422.9	422.9
32.5°	458.2	455.2	454.1	449.5	447.0	447.0	446.0	444.9
35°	486.3	481.8	480.7	476.1	472.6	472.6	471.5	472.0
37.5°	519.6	516.1	512.5	508.8	504.7	504.3	503.3	502.2
40°	564.2	560.1	556.0	550.9	547.3	546.2	544.7	544.2
42.5°	623.5	619.4	611.3	607.2	603.6	600.6	600.0	599.5
45°	699.4	694.2	688.6	680.9	676.3	669.7	668.7	666.1
47.5°	790.4	780.7	771.0	764.4	757.2	749.5	748.0	743.9
50°	887.3	879.5	863.2	852.4	841.1	833.5	828.4	826.8
52.5°	991.2	976.8	960.5	946.1	929.7	919.4	910.2	907.7
55°	1099.7	1079.2	1058.7	1041.9	1025.5	1013.1	1004.5	1000.4
57.5°	1208.2	1185.7	1163.2	1144.8	1130.9	1115.1	1106.3	1104.3
60°	1321.4	1299.8	1276.8	1258.4	1241.5	1227.6	1222.5	1212.8
62.5°	1441.1	1418.6	1397.1	1379.2	1357.7	1348.0	1339.3	1333.7
65°	1558.9	1532.8	1505.7	1486.7	1465.2	1451.4	1440.7	1432.9
67.5°	1650.1	1610.6	1574.2	1542.5	1513.3	1491.8	1478.1	1470.9
69°	1675.6	1626.5	1579.9	1538.4	1504.1	1480.1	1464.8	1457.5
70°	1672.6	1618.3	1567.1	1521.5	1484.2	1458.5	1443.7	1430.4
72.5°	1577.9	1528.2	1471.4	1421.7	1387.9	1363.4	1348.5	1341.3
75°	1346.4	1313.1	1272.2	1233.8	1209.2	1194.9	1176.5	1177.0
77.5°	980.4	981.4	953.8	914.3	886.7	881.6	873.4	865.2
80°	608.2	559.5	527.8	485.3	454.1	427.0	415.2	389.6
82.5°	280.6	219.1	170.0	128.5	98.8	77.3	67.5	55.3
85°	62.4	47.6	39.4	31.7	27.2	25.1	20.5	19.0
87.5°	8.7	7.7	7.2	6.7	5.7	4.1	3.1	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)