

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: P180126

Luminaire Tested: **ICS-E02-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180126  
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: ICS-E02-LED-E1-5WQ-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4837.1 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

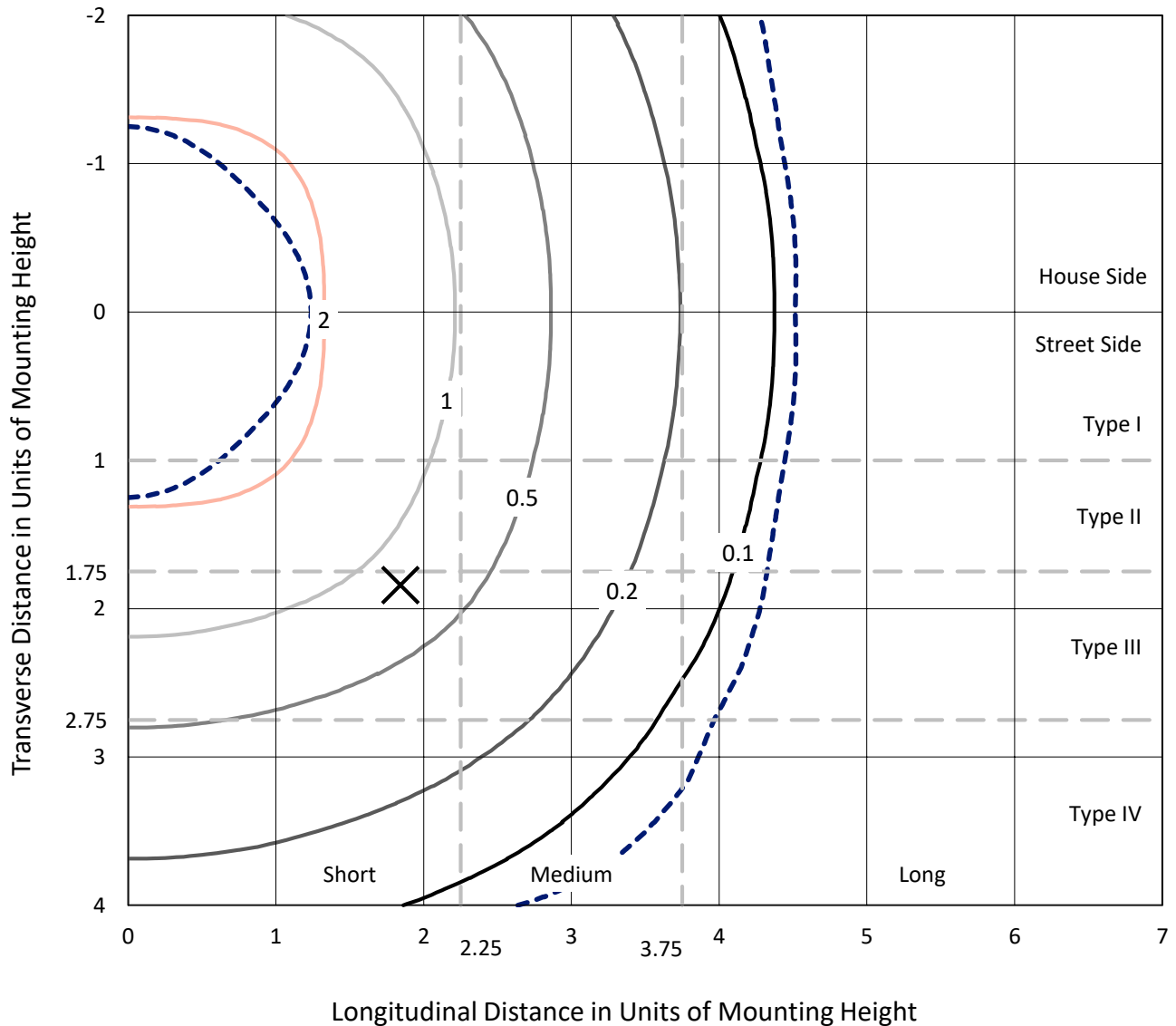
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

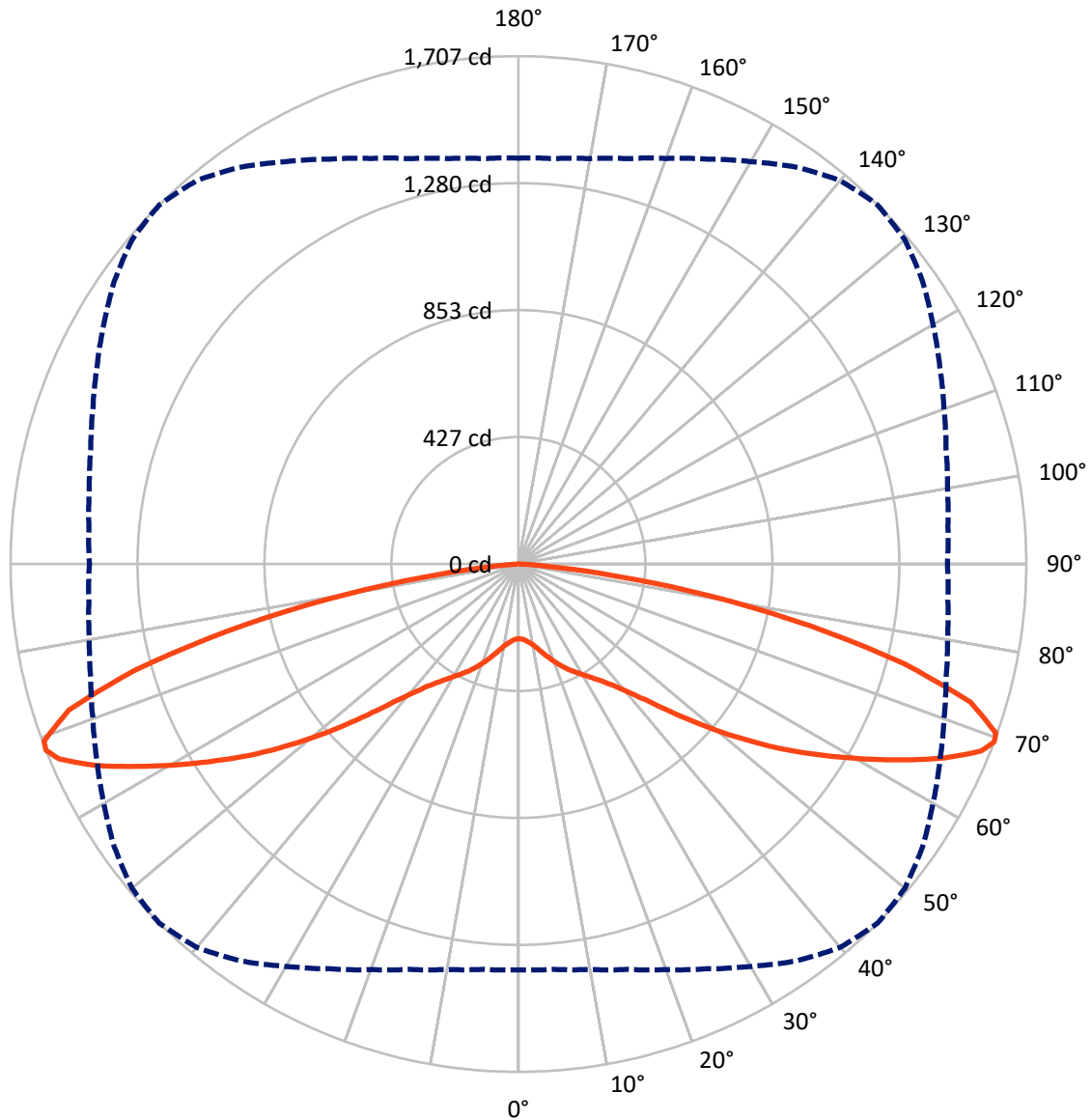
× Max cd  
 - - - 1/2 Max cd



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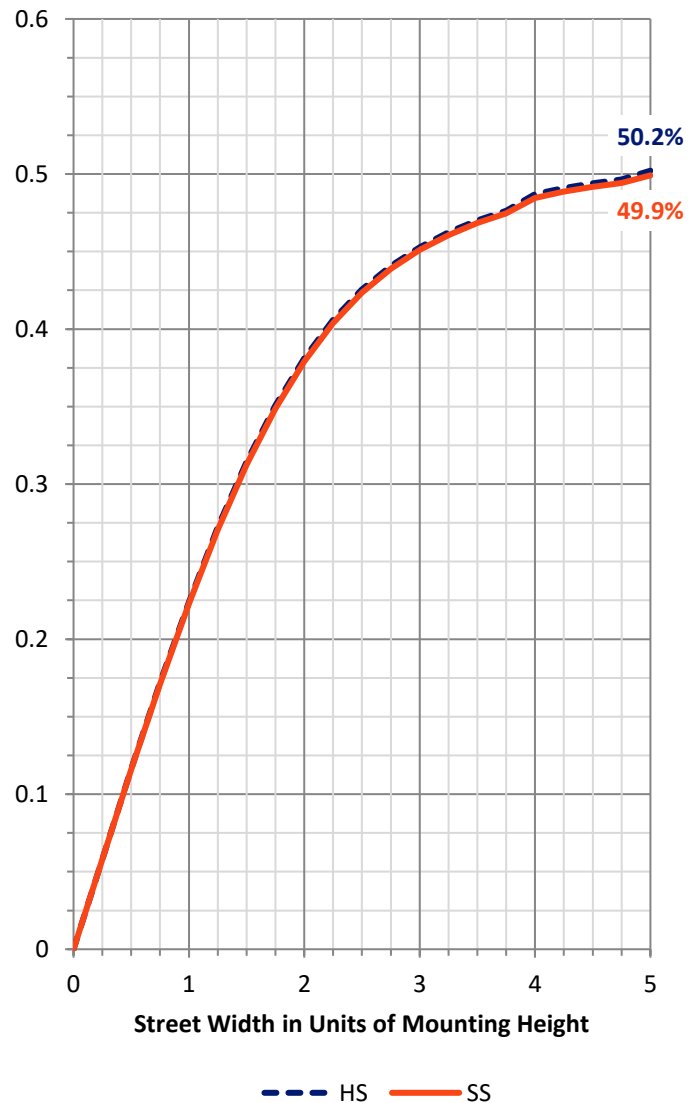
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2418.5	0.0	2418.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2418.5	0.0	2418.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4837.1	0.0	4837.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.2	0.5
10°-20°	89.1	1.8
20°-30°	180.3	3.7
30°-40°	302.4	6.3
40°-50°	533.3	11.0
50°-60°	940.5	19.4
60°-70°	1435.9	29.7
70°-80°	1199.9	24.8
80°-90°	130.4	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°	4837.1	100.0
0°-180°	4837.1	100.0



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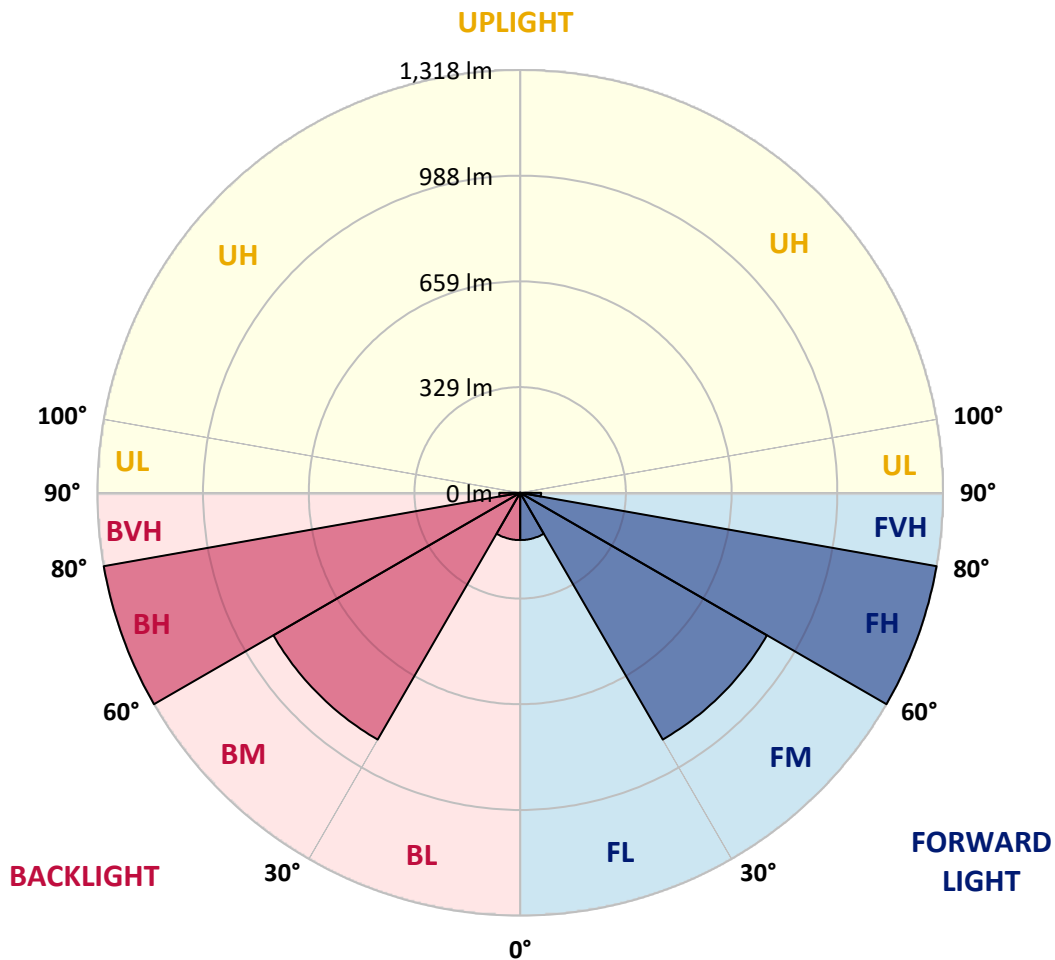
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.3	3.0			
FM	(30°-60°)	888.1	18.4			
FH	(60°-80°)	1317.9	27.2			G1/1800
FVH	(80°-90°)	65.2	1.3			G1/100
BL	(0°-30°)	147.3	3.0	B1/500		
BM	(30°-60°)	888.1	18.4	B1/1000		
BH	(60°-80°)	1317.9	27.2	B3/2500		G1/1800
BVH	(80°-90°)	65.2	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°	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
2.5°	253.2	253.7	253.2	253.2	253.2	253.2	253.2	252.7	252.7	252.7	253.2
5°	258.3	258.8	258.3	258.8	258.8	258.8	258.8	258.3	258.3	258.3	258.3
7.5°	266.4	266.4	266.4	266.9	266.4	266.4	266.9	266.4	266.4	266.4	266.4
10°	278.0	277.5	277.5	277.5	277.5	277.5	278.0	278.0	278.0	277.5	277.5
12.5°	292.2	291.7	292.2	292.2	292.7	292.7	292.7	292.7	292.7	292.7	292.2
15°	309.4	309.4	309.4	309.9	310.9	310.9	310.4	310.9	310.9	310.9	310.9
17.5°	328.7	329.7	328.7	329.2	329.7	329.2	330.2	330.7	331.2	330.7	329.2
20°	348.4	348.9	348.9	348.9	348.9	349.9	350.4	350.4	352.0	351.5	351.0
22.5°	367.2	368.2	368.2	368.7	368.7	370.2	370.2	370.2	371.2	372.2	371.2
25°	386.9	386.4	386.4	387.4	387.9	389.9	389.9	391.0	392.5	393.0	392.0
27.5°	404.6	404.1	404.1	405.6	406.2	408.7	408.7	410.7	411.7	412.2	411.2
30°	423.4	423.4	422.9	424.4	425.9	427.9	428.9	431.0	432.5	433.0	432.0
32.5°	445.7	444.6	445.1	446.2	447.2	449.2	450.7	453.2	455.3	455.8	454.8
35°	471.0	469.5	470.0	471.0	472.5	475.5	478.1	479.6	482.6	483.6	481.6
37.5°	498.8	499.3	498.8	501.4	503.9	507.4	510.5	512.5	515.5	517.1	515.5
40°	538.3	536.8	538.3	540.9	544.9	549.5	555.5	557.1	560.1	563.1	559.6
42.5°	589.5	588.5	592.0	594.0	598.6	603.7	611.3	615.3	619.9	621.9	618.8
45°	656.3	656.3	660.4	660.9	668.0	674.6	685.2	690.3	698.9	698.9	698.9
47.5°	730.3	733.3	735.8	740.9	746.0	758.1	768.7	779.9	788.0	789.0	787.5
50°	806.7	809.8	817.4	824.5	835.6	850.8	862.4	877.1	884.2	890.3	888.3
52.5°	891.3	891.8	900.9	910.0	926.2	943.0	961.7	976.9	989.5	995.1	990.6
55°	984.0	985.0	993.1	1002.7	1020.9	1040.2	1063.5	1079.2	1095.4	1105.5	1097.9
57.5°	1084.2	1084.8	1092.9	1104.5	1126.3	1145.5	1167.8	1190.1	1205.3	1214.4	1209.3
60°	1195.2	1197.7	1203.8	1218.5	1239.2	1259.5	1281.8	1301.5	1319.2	1328.9	1323.8
62.5°	1313.7	1316.2	1324.8	1336.4	1354.7	1377.0	1398.2	1423.6	1438.2	1448.9	1441.3
65°	1393.2	1397.7	1411.4	1427.1	1453.9	1482.8	1507.6	1542.1	1559.8	1572.4	1565.4
67.5°	1398.2	1400.8	1417.5	1441.3	1477.2	1520.8	1571.4	1625.1	1660.1	1676.8	1664.6
69°	1363.8	1367.3	1383.5	1410.4	1450.4	1501.0	1561.3	1628.1	1681.8	1706.6	1695.0
70°	1324.8	1332.4	1350.1	1379.5	1418.5	1471.7	1534.0	1605.4	1668.2	1702.1	1693.5
72.5°	1242.8	1244.8	1256.4	1279.7	1309.6	1353.7	1412.4	1479.8	1539.5	1588.1	1595.2
75°	1103.0	1109.6	1118.2	1133.9	1149.1	1181.0	1220.5	1266.6	1301.5	1339.0	1340.5
77.5°	833.6	853.3	859.9	863.4	870.0	895.4	929.8	969.8	998.7	1004.7	1003.7
80°	374.2	400.6	406.7	435.5	453.2	495.3	547.9	609.2	650.2	654.8	643.7
82.5°	73.4	78.5	91.7	114.5	156.0	180.8	215.2	258.3	297.8	320.6	306.9
85°	24.3	25.8	29.9	32.9	38.0	43.0	52.2	64.8	80.5	89.1	79.5
87.5°	9.6	9.6	11.1	12.2	13.2	13.2	13.2	12.2	11.6	9.6	8.6
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°	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
2.5°	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7
5°	258.3	257.8	257.8	257.3	257.3	257.3	257.3	257.3
7.5°	265.9	265.4	264.9	265.4	264.9	264.9	264.9	264.9
10°	277.5	276.5	276.0	275.5	275.5	275.5	275.0	275.0
12.5°	291.2	291.2	290.7	290.2	289.2	289.7	289.2	288.2
15°	309.9	308.9	308.4	307.9	306.9	306.9	306.9	306.4
17.5°	328.7	327.7	327.7	326.1	325.6	325.6	325.6	326.1
20°	349.4	347.9	346.9	345.9	344.9	345.4	344.4	345.4
22.5°	370.2	368.2	367.2	365.6	364.1	364.1	363.6	362.6
25°	390.5	387.9	386.9	385.4	383.4	383.4	382.3	381.3
27.5°	409.7	407.2	406.2	403.1	401.1	400.6	399.6	399.1
30°	431.0	427.9	426.4	423.4	420.3	419.8	418.3	418.3
32.5°	453.2	450.2	449.2	444.6	442.1	442.1	441.1	440.1
35°	481.1	476.5	475.5	471.0	467.4	467.4	466.4	466.9
37.5°	514.0	510.5	506.9	503.4	499.3	498.8	497.8	496.8
40°	558.1	554.0	550.0	544.9	541.4	540.4	538.8	538.3
42.5°	616.8	612.8	604.7	600.6	597.1	594.0	593.5	593.0
45°	691.8	686.7	681.1	673.5	669.0	662.4	661.4	658.9
47.5°	781.9	772.3	762.7	756.1	749.0	741.4	739.9	735.8
50°	877.6	870.0	853.8	843.2	832.1	824.5	819.4	817.9
52.5°	980.4	966.3	950.0	935.9	919.7	909.5	900.4	897.9
55°	1087.8	1067.5	1047.3	1030.6	1014.4	1002.2	993.6	989.5
57.5°	1195.2	1172.9	1150.6	1132.4	1118.7	1103.0	1094.4	1092.4
60°	1307.1	1285.8	1263.0	1244.8	1228.1	1214.4	1209.3	1199.7
62.5°	1425.6	1403.3	1382.0	1364.3	1343.0	1333.4	1324.8	1319.2
65°	1542.1	1516.2	1489.4	1470.6	1449.4	1435.7	1425.1	1417.5
67.5°	1632.2	1593.2	1557.2	1525.8	1497.0	1475.7	1462.0	1455.0
69°	1657.5	1608.9	1562.8	1521.8	1487.9	1464.1	1448.9	1441.8
70°	1654.5	1600.8	1550.2	1505.1	1468.1	1442.8	1428.1	1414.9
72.5°	1560.8	1511.7	1455.5	1406.3	1372.9	1348.6	1333.9	1326.8
75°	1331.9	1299.0	1258.5	1220.5	1196.2	1182.0	1163.8	1164.3
77.5°	969.8	970.8	943.5	904.5	877.1	872.1	864.0	855.9
80°	601.6	553.5	522.1	480.1	449.2	422.4	410.7	385.4
82.5°	277.5	216.7	168.1	127.1	97.7	76.5	66.8	54.7
85°	61.8	47.1	39.0	31.4	26.8	24.8	20.3	18.7
87.5°	8.6	7.6	7.1	6.6	5.6	4.1	3.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)