

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: P147688

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147688  
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: VXS-E02-LED-E1-5WQ-8030  
Description: VISION 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: 5374.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

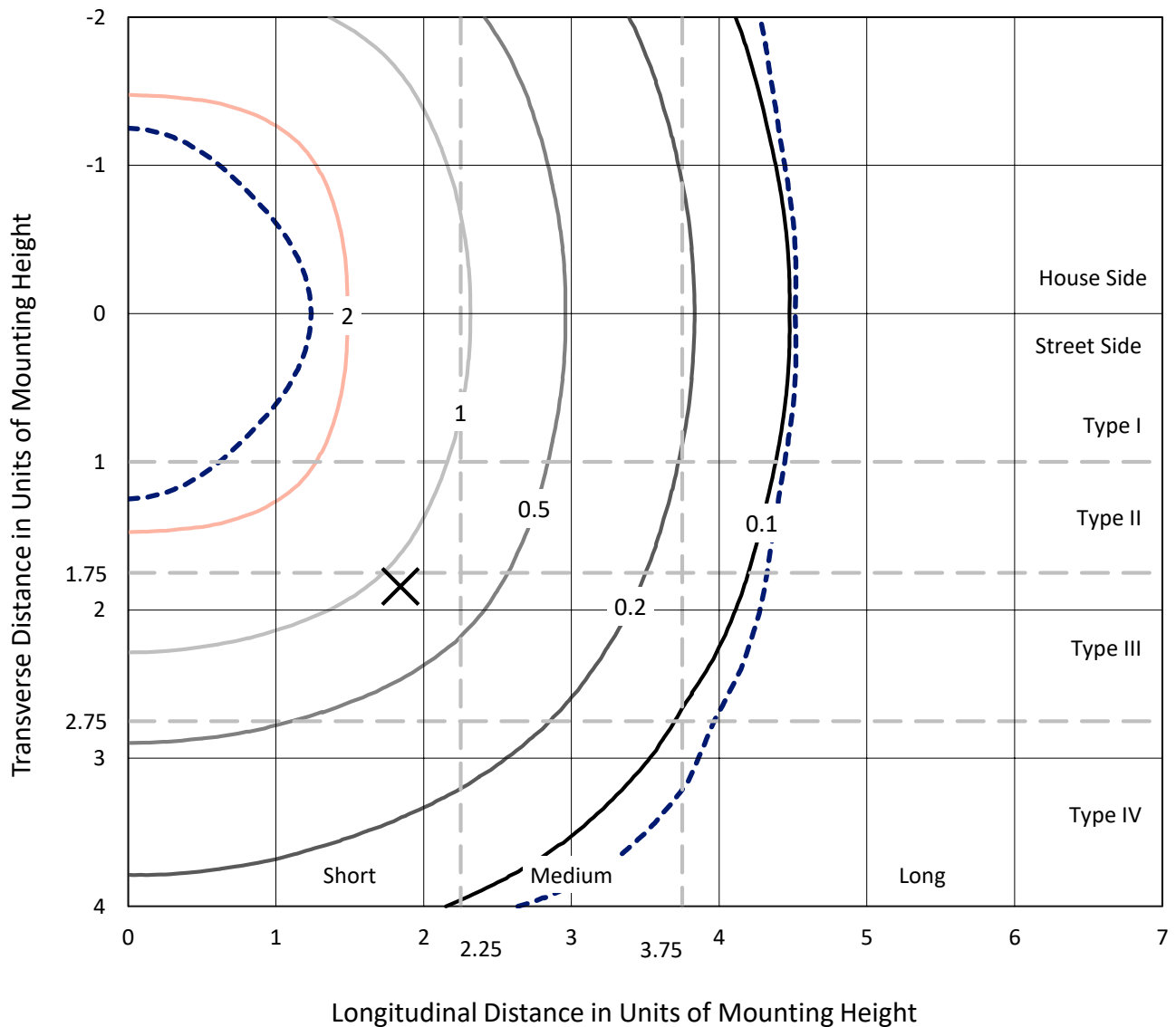
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

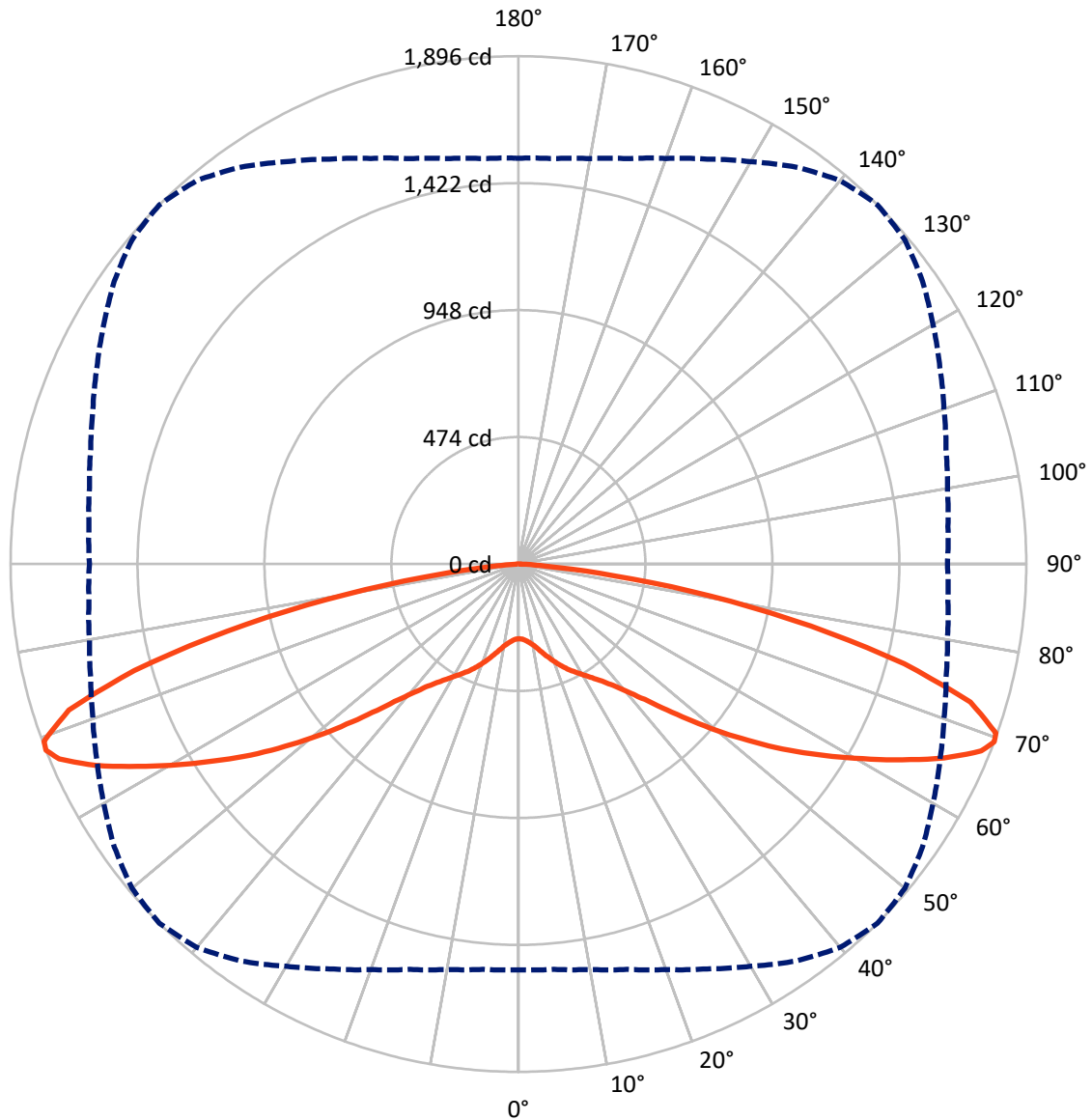


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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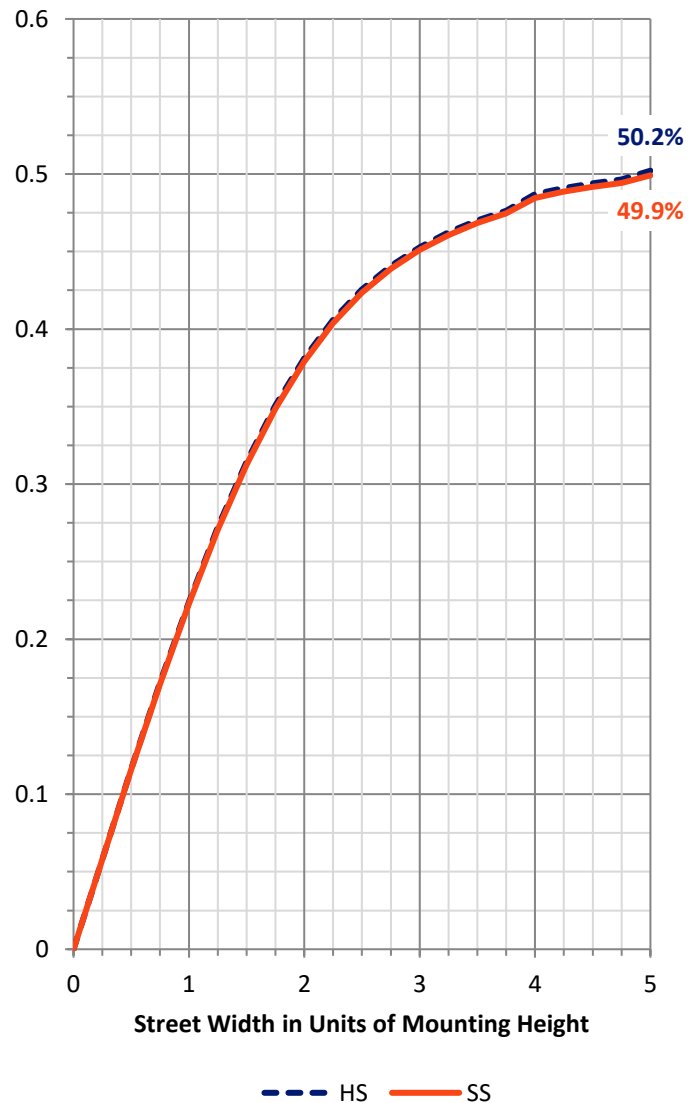
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2687.1	0.0	2687.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2687.1	0.0	2687.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5374.2	0.0	5374.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.0	0.5
10°-20°	99.0	1.8
20°-30°	200.4	3.7
30°-40°	335.9	6.3
40°-50°	592.6	11.0
50°-60°	1045.0	19.4
60°-70°	1595.4	29.7
70°-80°	1333.1	24.8
80°-90°	144.9	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°	5374.2	100.0
0°-180°	5374.2	100.0



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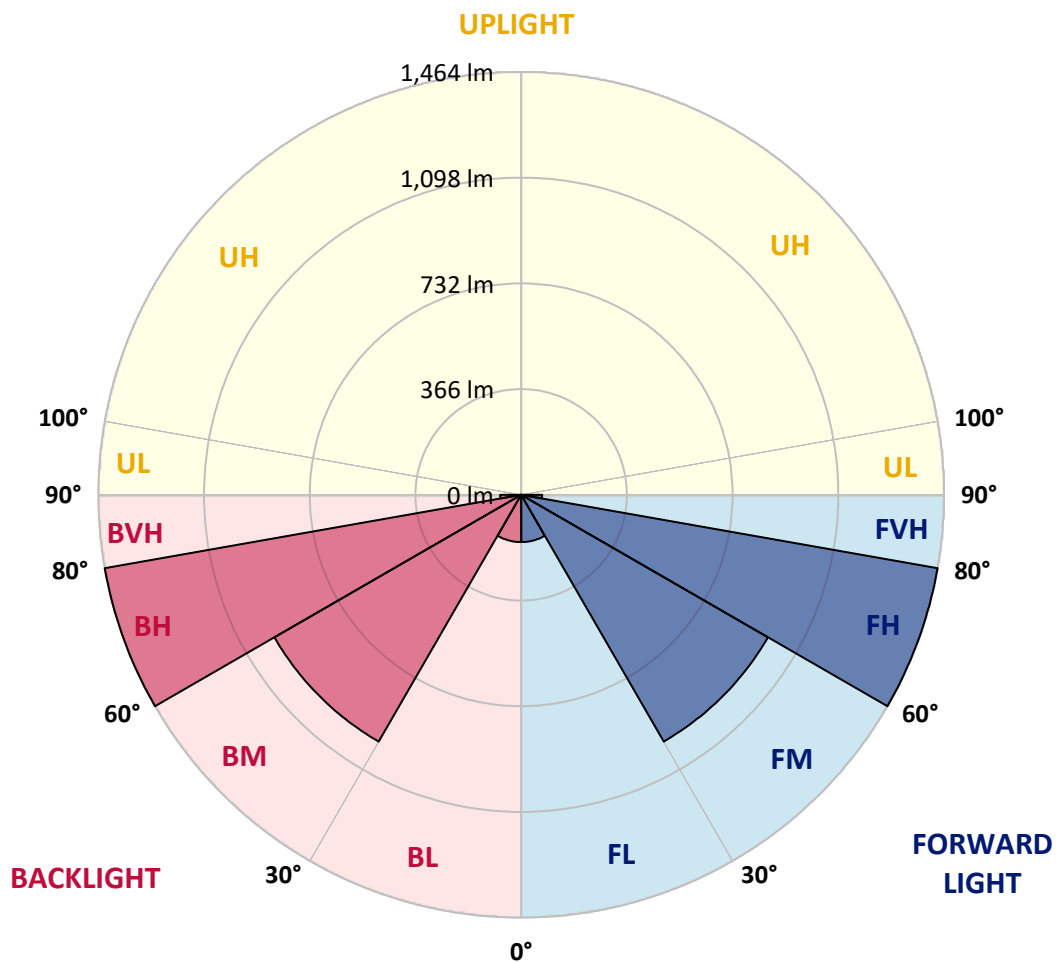
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.7	3.0			
FM (30°-60°)	986.7	18.4			
FH (60°-80°)	1464.2	27.2			G1/1800
FVH (80°-90°)	72.4	1.3			G1/100
BL (0°-30°)	163.7	3.0	B1/500		
BM (30°-60°)	986.7	18.4	B1/1000		
BH (60°-80°)	1464.2	27.2	B3/2500		G1/1800
BVH (80°-90°)	72.4	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°	279.1	279.1	279.1	279.1	279.1	279.1	279.1	279.1	279.1	279.1	279.1
2.5°	281.3	281.9	281.3	281.3	281.3	281.3	281.3	280.7	280.7	280.7	281.3
5°	286.9	287.6	286.9	287.6	287.6	287.6	287.6	286.9	286.9	286.9	286.9
7.5°	296.0	296.0	296.0	296.5	296.0	296.0	296.5	296.0	296.0	296.0	296.0
10°	308.9	308.3	308.3	308.3	308.3	308.3	308.9	308.9	308.9	308.9	308.3
12.5°	324.7	324.0	324.7	324.7	325.2	325.2	325.2	325.2	325.2	325.2	324.7
15°	343.8	343.8	343.8	344.4	345.5	345.5	344.9	345.5	345.5	345.5	345.5
17.5°	365.2	366.3	365.2	365.7	366.3	365.7	366.8	367.5	368.0	367.5	365.7
20°	387.2	387.7	387.7	387.7	387.7	388.8	389.3	389.3	391.1	390.5	389.9
22.5°	408.0	409.0	409.0	409.6	409.6	411.3	411.3	411.3	412.4	413.6	412.4
25°	429.8	429.3	429.3	430.5	431.0	433.3	433.3	434.4	436.1	436.6	435.5
27.5°	449.5	449.0	449.0	450.7	451.3	454.1	454.1	456.3	457.4	458.0	456.9
30°	470.4	470.4	469.8	471.5	473.2	475.4	476.6	478.9	480.5	481.0	480.0
32.5°	495.1	494.0	494.6	495.8	496.8	499.1	500.7	503.6	505.8	506.4	505.3
35°	523.3	521.6	522.2	523.3	525.0	528.3	531.2	532.8	536.2	537.3	535.1
37.5°	554.2	554.8	554.2	557.0	559.9	563.8	567.2	569.4	572.7	574.5	572.7
40°	598.1	596.4	598.1	600.9	605.4	610.5	617.2	619.0	622.3	625.7	621.8
42.5°	654.9	653.8	657.7	660.0	665.1	670.7	679.2	683.6	688.7	691.0	687.6
45°	729.2	729.2	733.7	734.3	742.2	749.4	761.2	766.9	776.5	776.5	776.5
47.5°	811.4	814.7	817.5	823.2	828.8	842.3	854.1	866.5	875.5	876.6	874.9
50°	896.3	899.7	908.1	916.1	928.4	945.3	958.2	974.5	982.4	989.1	986.9
52.5°	990.3	990.9	1000.9	1011.1	1029.1	1047.7	1068.5	1085.4	1099.5	1105.6	1100.5
55°	1093.3	1094.4	1103.4	1114.1	1134.3	1155.8	1181.6	1199.1	1217.0	1228.3	1219.9
57.5°	1204.7	1205.2	1214.2	1227.2	1251.4	1272.7	1297.5	1322.3	1339.2	1349.2	1343.6
60°	1327.9	1330.7	1337.4	1353.8	1376.8	1399.4	1424.1	1446.0	1465.7	1476.4	1470.8
62.5°	1459.6	1462.4	1471.9	1484.9	1505.1	1529.8	1553.5	1581.7	1597.9	1609.7	1601.3
65°	1547.9	1553.0	1568.2	1585.6	1615.4	1647.5	1675.0	1713.3	1733.0	1747.0	1739.2
67.5°	1553.5	1556.3	1574.9	1601.3	1641.2	1689.6	1745.9	1805.6	1844.4	1863.0	1849.4
69°	1515.2	1519.2	1537.2	1567.0	1611.5	1667.8	1734.7	1808.9	1868.6	1896.2	1883.2
70°	1471.9	1480.3	1500.1	1532.6	1576.1	1635.1	1704.2	1783.6	1853.4	1891.1	1881.6
72.5°	1380.7	1383.0	1396.0	1421.9	1455.0	1504.0	1569.2	1644.1	1710.5	1764.5	1772.3
75°	1225.5	1232.7	1242.4	1259.8	1276.7	1312.1	1356.1	1407.3	1446.0	1487.7	1489.3
77.5°	926.1	948.1	955.4	959.4	966.6	994.8	1033.1	1077.5	1109.5	1116.3	1115.2
80°	415.9	445.1	451.8	483.9	503.6	550.3	608.8	676.9	722.5	727.6	715.1
82.5°	81.6	87.3	101.9	127.2	173.3	200.8	239.2	286.9	330.9	356.2	340.9
85°	27.0	28.7	33.2	36.6	42.2	47.9	57.9	72.0	89.4	99.1	88.3
87.5°	10.7	10.7	12.3	13.5	14.6	14.6	14.6	13.5	13.0	10.7	9.5
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°	279.1	279.1	279.1	279.1	279.1	279.1	279.1	279.1
2.5°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7
5°	286.9	286.4	286.4	285.8	285.8	285.8	285.8	285.8
7.5°	295.4	294.8	294.3	294.8	294.3	294.3	294.3	294.3
10°	308.3	307.3	306.6	306.1	306.1	306.1	305.5	305.5
12.5°	323.5	323.5	323.0	322.4	321.2	321.9	321.2	320.1
15°	344.4	343.2	342.7	342.1	340.9	340.9	340.9	340.4
17.5°	365.2	364.0	364.0	362.4	361.8	361.8	361.8	362.4
20°	388.2	386.5	385.4	384.2	383.2	383.7	382.6	383.7
22.5°	411.3	409.0	408.0	406.2	404.6	404.6	404.0	402.9
25°	433.8	431.0	429.8	428.2	425.9	425.9	424.8	423.7
27.5°	455.2	452.3	451.3	447.9	445.6	445.1	443.9	443.4
30°	478.9	475.4	473.8	470.4	467.0	466.4	464.8	464.8
32.5°	503.6	500.2	499.1	494.0	491.2	491.2	490.1	488.9
35°	534.5	529.4	528.3	523.3	519.4	519.4	518.2	518.8
37.5°	571.1	567.2	563.2	559.3	554.8	554.2	553.1	552.0
40°	620.1	615.5	611.1	605.4	601.5	600.3	598.7	598.1
42.5°	685.3	680.8	671.8	667.4	663.4	660.0	659.5	658.9
45°	768.6	763.0	756.8	748.3	743.3	736.0	734.8	732.0
47.5°	868.7	858.0	847.4	840.1	832.1	823.7	822.1	817.5
50°	975.1	966.6	948.6	936.8	924.5	916.1	910.4	908.7
52.5°	1089.3	1073.6	1055.5	1039.8	1021.8	1010.6	1000.4	997.6
55°	1208.6	1186.1	1163.6	1145.0	1127.0	1113.5	1103.9	1099.5
57.5°	1327.9	1303.1	1278.3	1258.1	1242.9	1225.5	1216.0	1213.7
60°	1452.2	1428.6	1403.3	1383.0	1364.5	1349.2	1343.6	1333.0
62.5°	1583.9	1559.2	1535.5	1515.9	1492.1	1481.5	1471.9	1465.7
65°	1713.3	1684.6	1654.8	1634.0	1610.4	1595.1	1583.3	1574.9
67.5°	1813.5	1770.2	1730.2	1695.3	1663.2	1639.6	1624.4	1616.5
69°	1841.6	1787.6	1736.4	1690.8	1653.1	1626.6	1609.7	1601.9
70°	1838.2	1778.5	1722.3	1672.2	1631.2	1603.0	1586.7	1572.1
72.5°	1734.1	1679.6	1617.1	1562.5	1525.4	1498.3	1482.1	1474.2
75°	1479.8	1443.2	1398.2	1356.1	1329.0	1313.3	1293.0	1293.6
77.5°	1077.5	1078.7	1048.2	1004.9	974.5	968.9	959.9	950.9
80°	668.4	615.0	580.1	533.4	499.1	469.2	456.3	428.2
82.5°	308.3	240.8	186.8	141.2	108.6	85.0	74.3	60.7
85°	68.6	52.3	43.3	34.9	29.8	27.6	22.5	20.8
87.5°	9.5	8.4	7.9	7.4	6.2	4.5	3.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)