

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: P180031

Luminaire Tested: **ICS-F02-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180031  
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: ICS-F02-LED-E1-5MQ-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4043.2 lumens  
Efficiency: N/A  
Efficacy: 73.5 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: B2 - U0 - G1

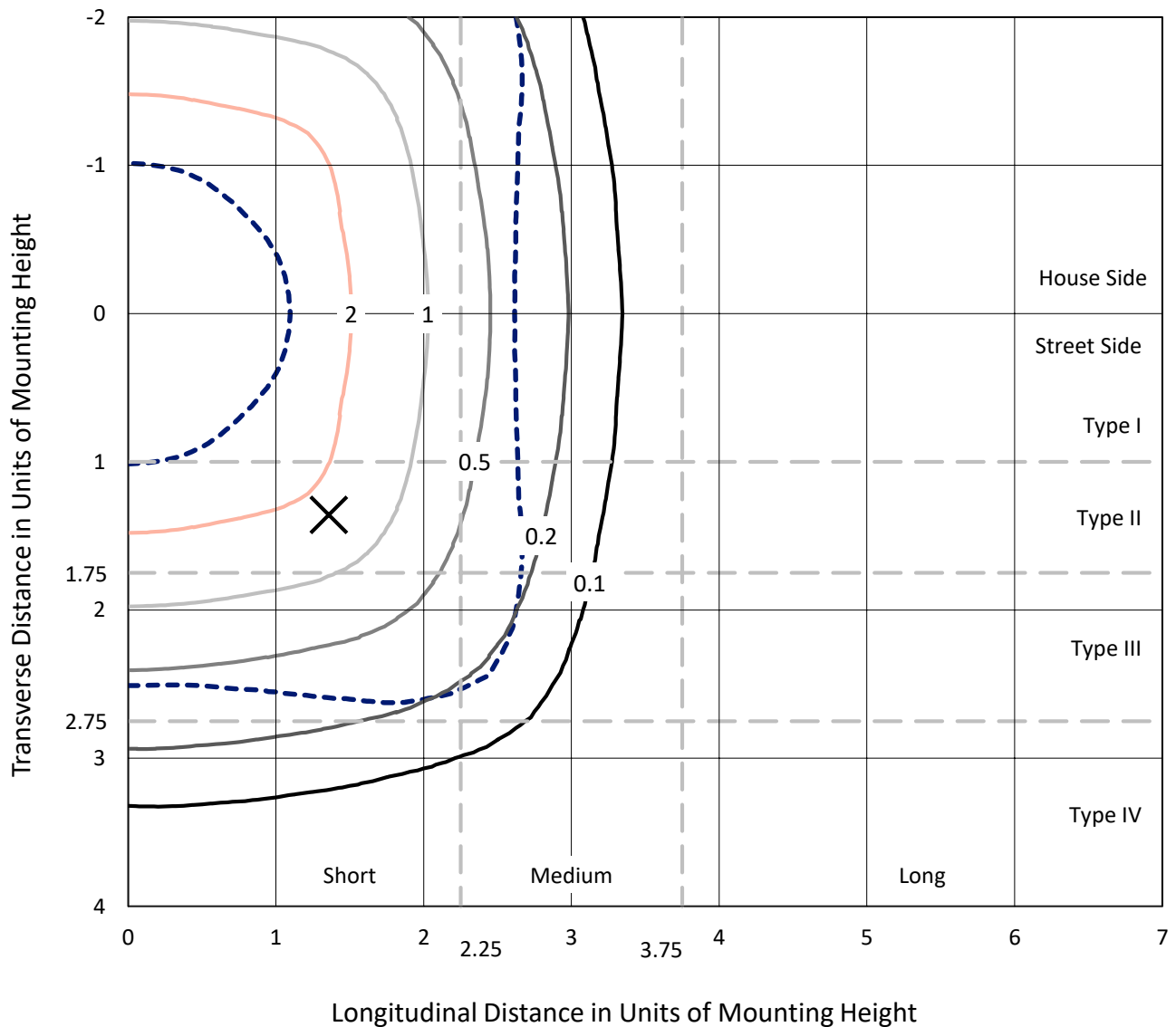
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

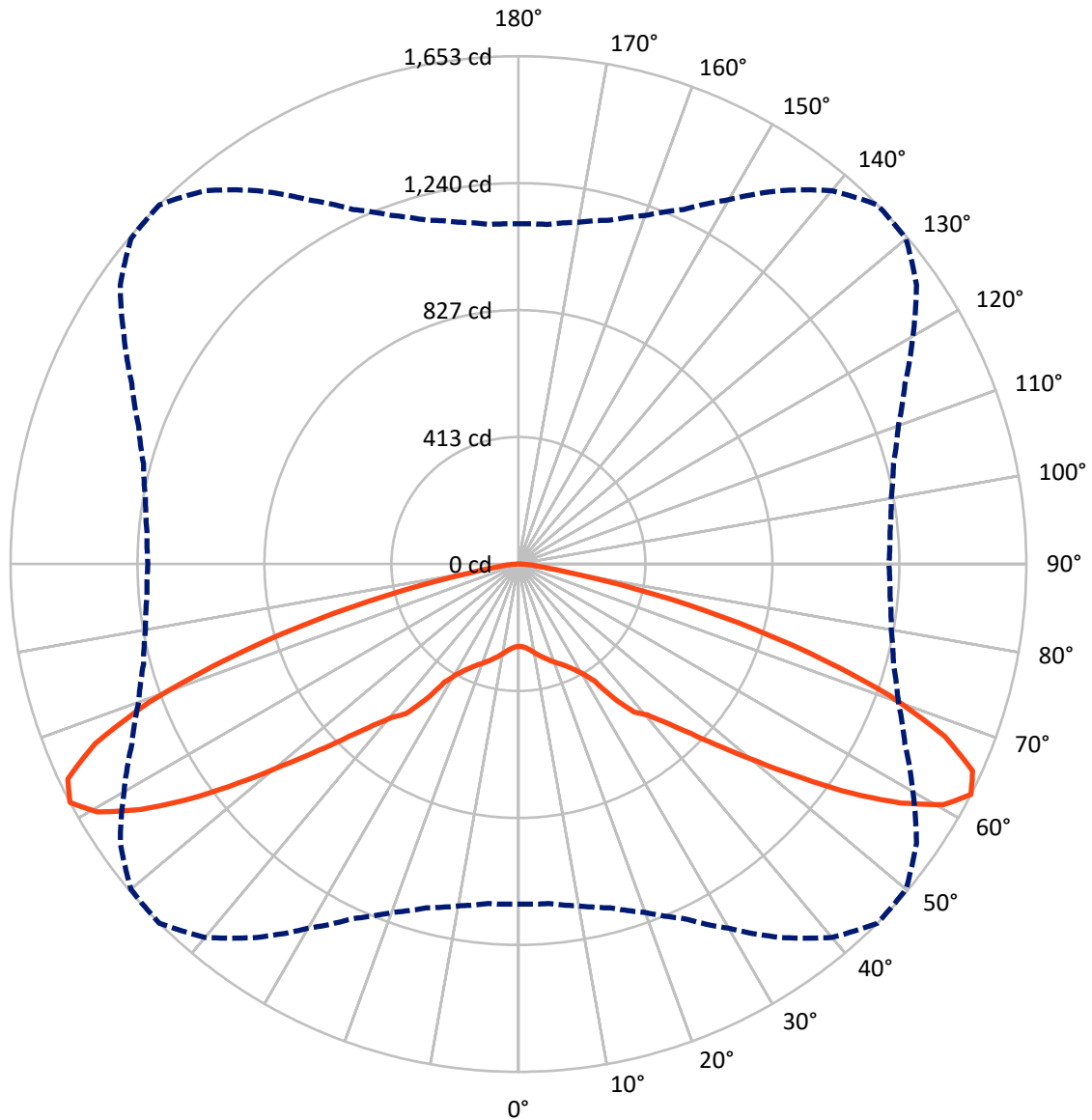
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 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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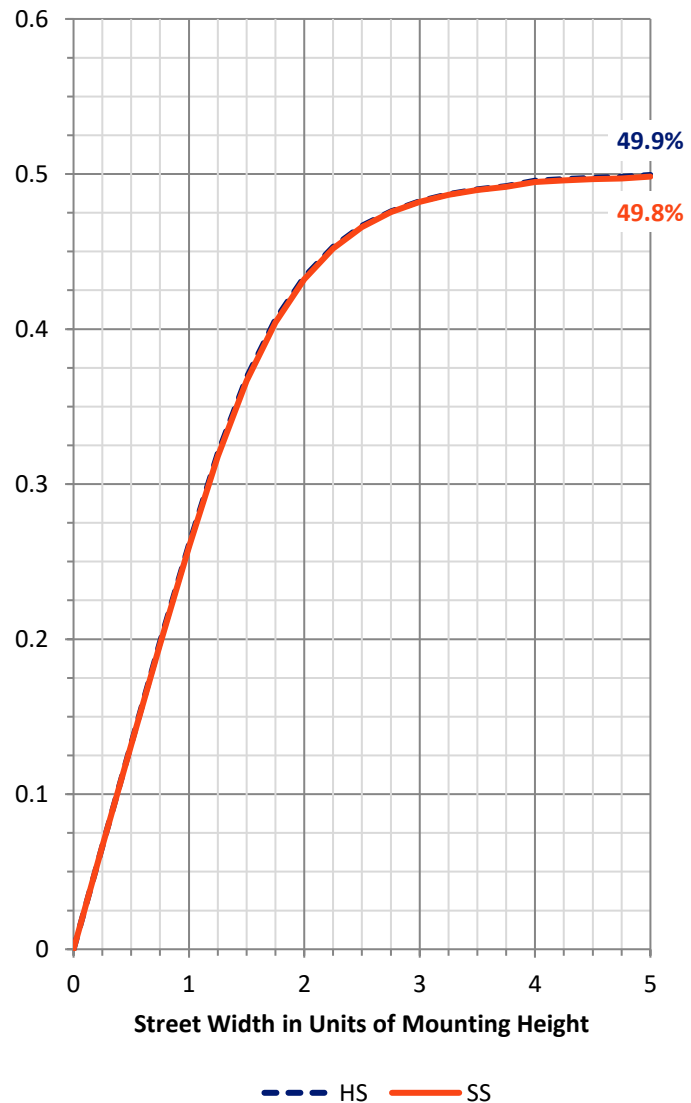
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2021.6	0.0	2021.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2021.6	0.0	2021.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4043.2	0.0	4043.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.9	0.7
10°-20°	90.9	2.2
20°-30°	175.8	4.3
30°-40°	340.4	8.4
40°-50°	614.6	15.2
50°-60°	1068.7	26.4
60°-70°	1213.2	30.0
70°-80°	470.4	11.6
80°-90°	42.4	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°	4043.2	100.0
0°-180°	4043.2	100.0



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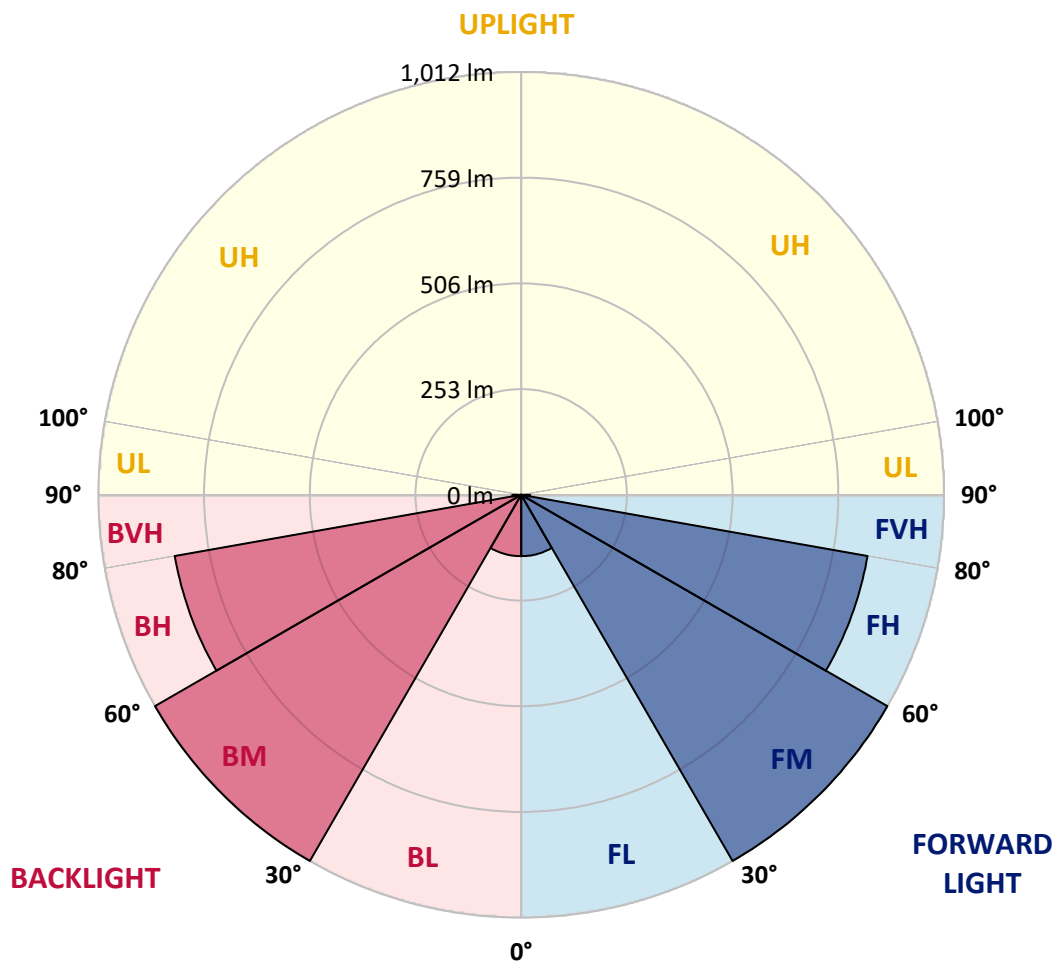
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.8	3.6			
FM (30°-60°)	1011.8	25.0			
FH (60°-80°)	841.8	20.8			G1/1800
FVH (80°-90°)	21.2	0.5			G1/100
BL (0°-30°)	146.8	3.6	B1/500		
BM (30°-60°)	1011.8	25.0	B2/2500		
BH (60°-80°)	841.8	20.8	B2/1000		G1/1800
BVH (80°-90°)	21.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	270.1	270.9	270.7	270.3	270.3	270.2	270.0	269.5	269.2	269.6	270.0
5°	276.4	276.4	276.4	276.4	276.0	276.0	275.5	275.0	275.3	274.9	274.6
7.5°	286.0	285.4	285.4	285.2	285.2	284.7	284.0	283.2	283.4	283.2	283.0
10°	297.2	297.5	296.8	297.4	296.4	296.2	295.4	294.9	294.8	294.1	294.1
12.5°	310.8	310.2	310.2	309.8	309.4	309.0	307.7	307.5	306.6	306.2	305.6
15°	323.6	323.4	322.5	321.7	321.5	321.0	319.6	318.8	318.6	317.5	316.7
17.5°	336.3	335.9	334.8	334.5	333.6	333.0	331.7	330.5	329.8	329.5	328.4
20°	349.9	349.5	348.5	347.6	346.6	345.8	343.8	342.8	342.2	341.6	340.8
22.5°	366.8	366.0	364.4	362.8	360.6	359.8	357.2	355.8	354.8	353.9	353.5
25°	385.2	385.5	383.2	381.2	378.6	376.2	373.2	371.5	370.4	369.6	369.4
27.5°	408.2	408.5	406.4	403.7	399.5	397.0	392.8	390.7	390.0	389.2	389.0
30°	444.6	442.8	439.2	434.8	431.0	425.6	419.6	417.4	415.4	414.8	414.8
32.5°	511.5	510.4	507.6	496.6	491.6	480.4	469.7	463.6	456.7	453.4	451.3
35°	558.3	557.9	555.6	551.8	548.7	546.4	540.2	539.1	537.8	537.8	539.5
37.5°	592.8	590.3	589.9	590.5	589.6	590.1	595.1	602.0	607.9	610.8	610.3
40°	643.8	640.2	642.4	640.9	639.0	638.6	640.3	643.0	645.7	645.7	645.0
42.5°	710.5	712.2	713.0	707.0	703.0	702.0	705.9	705.1	707.8	706.7	704.0
45°	809.6	808.6	807.0	799.8	793.4	788.4	789.5	788.1	788.2	786.6	784.5
47.5°	909.5	913.0	907.0	903.4	896.4	892.8	895.7	893.2	898.0	889.2	885.0
50°	1006.5	1009.0	1006.9	1001.9	1001.9	1006.9	1010.4	1015.0	1021.8	1011.7	996.6
52.5°	1085.9	1088.0	1091.2	1095.4	1105.6	1116.2	1131.2	1147.4	1160.1	1158.2	1141.1
55°	1134.4	1137.0	1142.2	1156.6	1175.0	1203.0	1237.0	1274.4	1303.7	1317.9	1305.4
57.5°	1150.7	1152.6	1166.8	1184.2	1212.8	1254.4	1311.4	1376.0	1432.3	1468.0	1462.4
60°	1147.0	1147.0	1161.4	1185.2	1225.4	1280.6	1361.2	1450.6	1536.8	1590.4	1582.4
62.5°	1107.4	1109.6	1130.2	1158.9	1207.4	1273.4	1369.6	1484.0	1586.9	1653.4	1647.0
65°	1021.0	1022.4	1044.8	1078.8	1132.9	1211.1	1316.2	1442.9	1561.1	1625.1	1612.9
67.5°	881.0	882.6	900.7	939.2	996.4	1078.2	1191.7	1331.1	1446.8	1497.3	1460.9
70°	700.9	705.1	716.8	757.6	801.0	881.1	985.6	1125.0	1234.2	1282.0	1241.8
72.5°	477.6	488.3	502.5	538.6	580.2	646.8	729.9	847.4	935.0	990.4	954.6
75°	269.0	284.0	288.4	315.8	350.2	402.6	463.4	547.6	636.1	681.0	638.0
77.5°	116.2	128.6	134.0	146.8	173.5	195.4	232.4	289.3	357.6	389.2	337.6
80°	57.2	60.2	62.6	66.4	74.0	81.1	98.6	123.6	151.6	158.6	126.2
82.5°	44.3	46.4	50.4	53.5	55.4	57.3	59.0	62.3	65.0	66.4	62.7
85°	31.2	33.9	38.2	41.8	43.9	45.4	46.8	47.8	45.4	41.4	43.5
87.5°	8.2	10.6	14.8	16.1	18.2	19.2	18.8	19.4	17.5	12.8	14.2
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°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4
2.5°	269.8	269.7	269.8	269.8	269.9	269.6	269.6	269.7
5°	274.7	274.6	274.9	274.4	274.5	274.6	274.4	274.3
7.5°	282.8	282.6	282.6	282.4	282.6	282.4	282.4	282.2
10°	293.7	293.3	293.5	292.8	292.8	292.6	292.6	292.6
12.5°	305.4	304.8	305.0	304.4	303.3	303.5	303.7	303.5
15°	316.6	316.0	315.4	315.0	314.4	314.6	314.6	314.4
17.5°	328.2	327.0	326.7	326.1	325.8	325.8	325.8	326.1
20°	340.1	339.2	339.0	338.4	338.2	338.8	339.0	338.6
22.5°	352.8	352.4	352.8	352.5	353.0	353.4	353.7	353.3
25°	368.9	368.6	369.2	370.6	371.4	371.8	372.9	372.5
27.5°	389.6	389.2	390.6	392.8	394.0	396.1	397.2	397.6
30°	416.4	418.3	419.1	423.3	424.2	427.4	427.5	428.9
32.5°	455.2	458.8	465.1	471.6	480.6	487.0	487.0	490.4
35°	540.6	542.0	546.8	547.8	549.8	551.8	549.8	551.4
37.5°	606.0	599.5	594.9	588.4	584.4	584.4	584.9	584.5
40°	639.4	637.0	634.8	629.4	628.6	628.4	628.4	629.2
42.5°	699.2	693.2	689.8	685.2	683.8	683.3	683.2	683.5
45°	776.9	767.2	758.2	753.6	749.6	745.8	747.1	747.1
47.5°	867.5	852.2	837.6	829.6	822.8	819.6	817.6	816.9
50°	977.6	956.3	937.5	922.6	912.6	912.4	913.4	906.8
52.5°	1112.7	1079.0	1055.6	1035.5	1026.2	1025.1	1021.8	1018.0
55°	1262.4	1222.4	1183.8	1162.2	1149.9	1143.2	1139.2	1133.0
57.5°	1416.6	1362.9	1307.3	1272.8	1251.1	1236.0	1228.1	1224.5
60°	1535.6	1462.2	1388.8	1333.4	1297.2	1274.9	1261.1	1255.4
62.5°	1582.4	1482.8	1388.8	1316.0	1263.8	1232.8	1214.2	1206.1
65°	1526.6	1408.6	1301.6	1221.4	1163.1	1128.6	1108.3	1099.5
67.5°	1370.6	1266.5	1150.1	1070.2	1010.2	976.2	954.2	947.8
70°	1149.0	1042.6	931.4	860.2	806.7	778.8	756.1	753.4
72.5°	863.5	771.7	676.4	617.5	574.4	528.4	516.8	522.6
75°	553.6	467.6	382.8	329.6	290.4	246.4	229.5	233.7
77.5°	262.1	203.0	146.5	113.3	95.1	81.4	77.8	75.7
80°	97.2	78.8	69.6	66.0	63.6	61.2	59.6	57.7
82.5°	63.0	61.4	59.6	59.0	57.1	54.2	48.7	46.4
85°	47.0	47.0	44.6	44.7	43.2	39.6	34.5	31.8
87.5°	13.8	12.4	11.3	10.4	10.2	9.2	6.7	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)