

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: P179971

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179971
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: ICM-F02-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM 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: 4178.8 lumens
Efficiency: N/A
Efficacy: 76.0 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

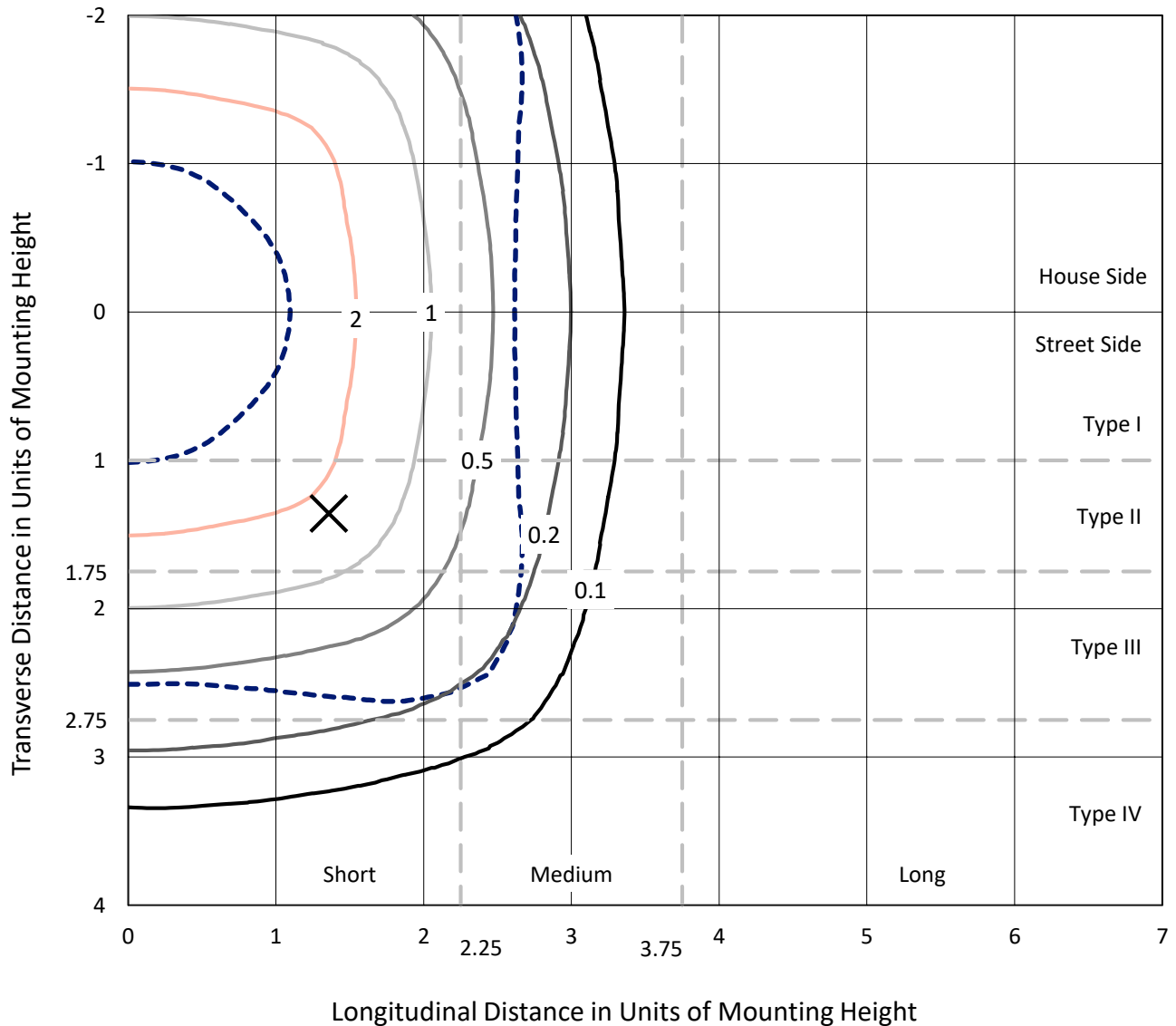
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

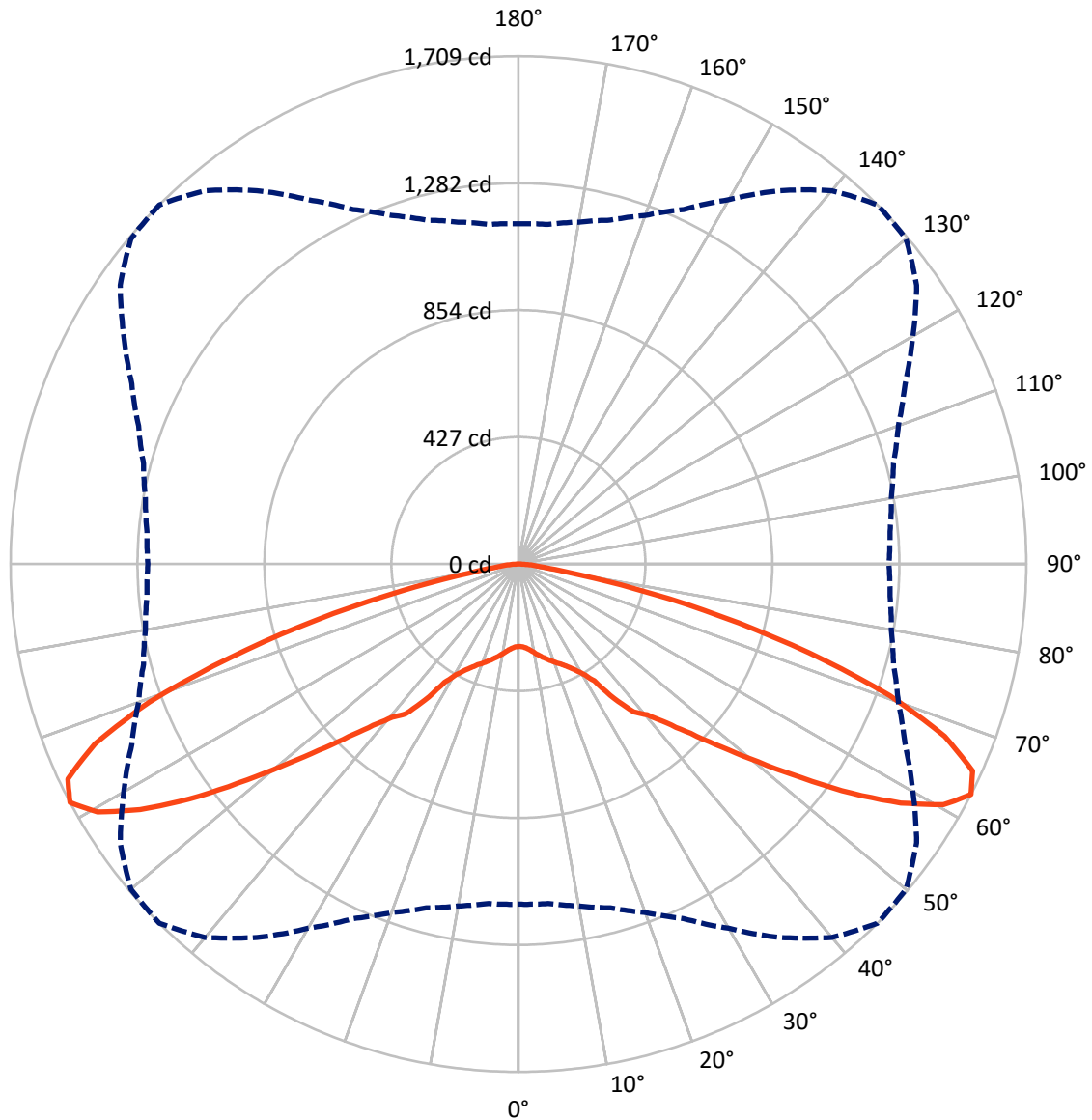
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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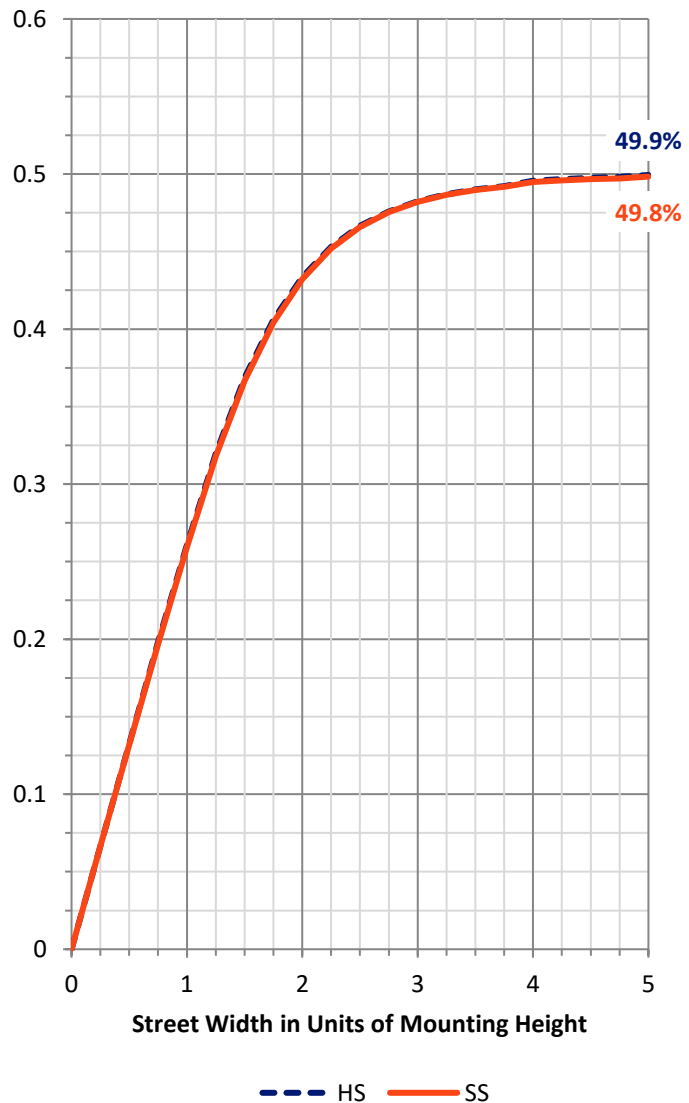
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.4	0.0	2089.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2089.4	0.0	2089.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4178.8	0.0	4178.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.7
10°-20°	94.0	2.2
20°-30°	181.7	4.3
30°-40°	351.8	8.4
40°-50°	635.2	15.2
50°-60°	1104.5	26.4
60°-70°	1253.9	30.0
70°-80°	486.1	11.6
80°-90°	43.9	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°	4178.8	100.0
0°-180°	4178.8	100.0

Coefficient of Utilization



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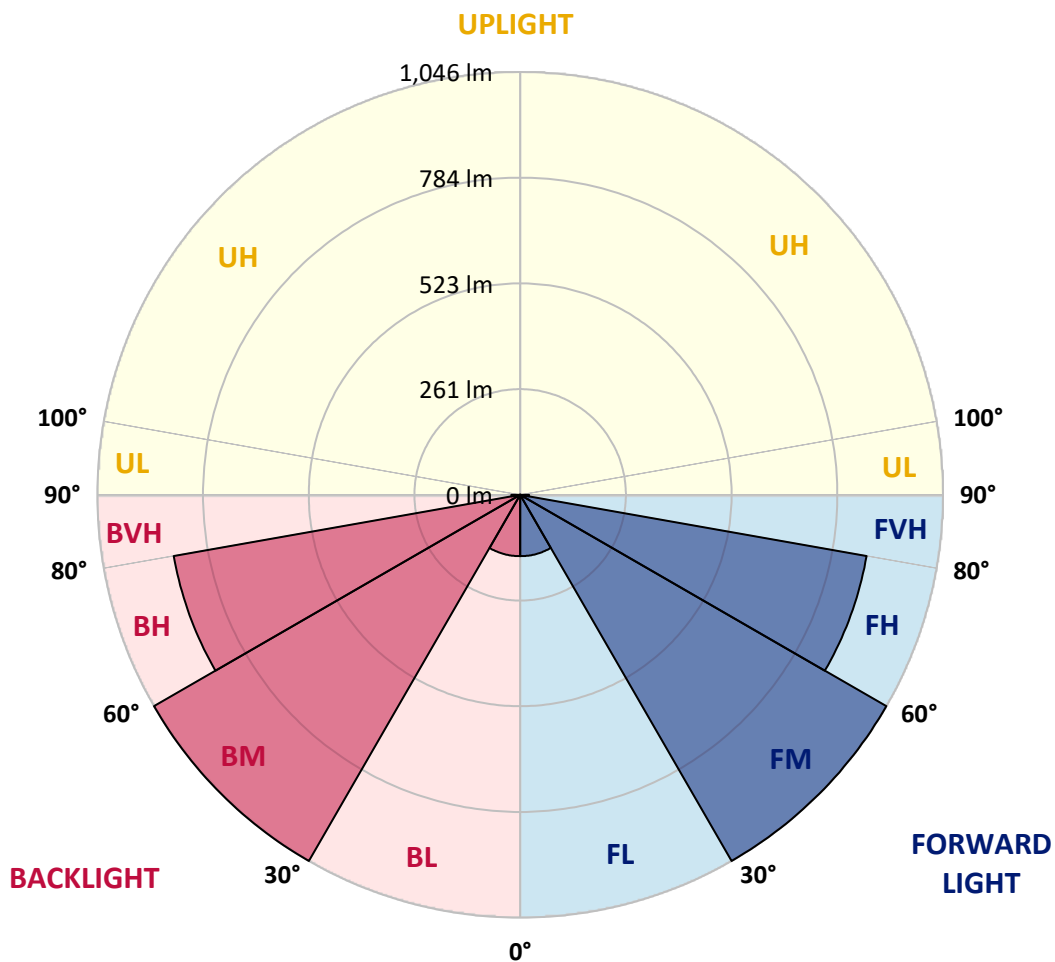
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.7	3.6			
FM (30°-60°)	1045.7	25.0			
FH (60°-80°)	870.0	20.8			G1/1800
FVH (80°-90°)	21.9	0.5			G1/100
BL (0°-30°)	151.7	3.6	B1/500		
BM (30°-60°)	1045.7	25.0	B2/2500		
BH (60°-80°)	870.0	20.8	B2/1000		G1/1800
BVH (80°-90°)	21.9	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°	277.4	277.4	277.4	277.4	277.4	277.4	277.4	277.4	277.4	277.4	277.4
2.5°	279.1	280.0	279.8	279.4	279.4	279.4	279.1	278.5	278.3	278.7	279.2
5°	285.6	285.6	285.6	285.6	285.2	285.2	284.7	284.3	284.5	284.1	283.9
7.5°	295.6	294.9	294.9	294.7	294.7	294.3	293.6	292.7	292.9	292.7	292.6
10°	307.2	307.4	306.8	307.4	306.3	306.1	305.3	304.8	304.6	304.0	304.0
12.5°	321.3	320.6	320.6	320.2	319.7	319.3	318.0	317.8	316.9	316.5	315.9
15°	334.4	334.2	333.3	332.5	332.3	331.9	330.3	329.5	329.3	328.2	327.3
17.5°	347.6	347.2	346.0	345.7	344.8	344.2	342.9	341.6	340.9	340.5	339.4
20°	361.7	361.2	360.2	359.3	358.1	357.4	355.4	354.3	353.7	353.0	352.2
22.5°	379.2	378.2	376.6	375.1	372.7	371.8	369.2	367.7	366.6	365.8	365.3
25°	398.1	398.3	396.0	394.0	391.3	388.8	385.7	383.9	382.9	382.0	381.8
27.5°	422.0	422.1	420.0	417.1	412.8	410.2	406.0	403.7	403.2	402.2	402.0
30°	459.5	457.6	454.0	449.4	445.4	439.8	433.7	431.4	429.2	428.7	428.7
32.5°	528.7	527.6	524.6	513.3	508.1	496.5	485.4	479.2	472.0	468.7	466.4
35°	577.0	576.6	574.2	570.4	567.1	564.7	558.2	557.2	555.9	555.9	557.6
37.5°	612.7	610.1	609.7	610.2	609.5	609.9	615.1	622.2	628.3	631.3	630.9
40°	665.4	661.8	663.9	662.4	660.5	660.0	661.7	664.6	667.4	667.4	666.7
42.5°	734.3	736.0	736.9	730.6	726.6	725.5	729.5	728.7	731.5	730.4	727.6
45°	836.7	835.7	834.1	826.6	820.1	814.9	816.0	814.5	814.7	813.0	810.8
47.5°	940.0	943.6	937.4	933.8	926.4	922.7	925.8	923.2	928.1	919.1	914.8
50°	1040.2	1042.8	1040.7	1035.5	1035.5	1040.8	1044.3	1049.1	1056.0	1045.7	1030.1
52.5°	1122.3	1124.5	1127.7	1132.1	1142.7	1153.7	1169.2	1185.9	1199.1	1197.0	1179.4
55°	1172.5	1175.1	1180.5	1195.4	1214.3	1243.4	1278.5	1317.2	1347.5	1362.1	1349.2
57.5°	1189.4	1191.3	1206.0	1223.9	1253.5	1296.5	1355.5	1422.1	1480.4	1517.2	1511.5
60°	1185.5	1185.5	1200.4	1224.9	1266.4	1323.4	1406.9	1499.4	1588.3	1643.6	1635.5
62.5°	1144.6	1146.8	1168.2	1197.8	1247.8	1316.1	1415.5	1533.8	1640.2	1708.8	1702.1
65°	1055.2	1056.7	1079.8	1115.0	1171.0	1251.7	1360.4	1491.4	1613.4	1679.5	1667.0
67.5°	910.7	912.2	930.9	970.6	1029.9	1114.4	1231.6	1375.8	1495.3	1547.5	1510.0
70°	724.4	728.7	740.8	782.9	827.9	910.6	1018.6	1162.7	1275.5	1325.0	1283.5
72.5°	493.7	504.7	519.4	556.7	599.7	668.5	754.4	875.8	966.3	1023.6	986.6
75°	278.0	293.6	298.1	326.4	361.9	416.1	479.0	566.0	657.5	703.8	659.4
77.5°	120.1	132.8	138.5	151.6	179.3	202.0	240.2	299.0	369.7	402.2	348.9
80°	59.2	62.2	64.6	68.7	76.5	83.8	102.0	127.7	156.7	163.9	130.4
82.5°	45.8	48.0	52.1	55.3	57.3	59.2	60.9	64.4	67.2	68.7	64.7
85°	32.2	35.0	39.5	43.2	45.4	46.9	48.4	49.5	46.9	42.8	44.9
87.5°	8.4	11.0	15.3	16.7	18.8	19.9	19.4	20.1	18.1	13.2	14.7
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°	277.4	277.4	277.4	277.4	277.4	277.4	277.4	277.4
2.5°	278.9	278.7	278.9	278.9	278.9	278.7	278.7	278.7
5°	283.9	283.9	284.1	283.6	283.7	283.9	283.7	283.4
7.5°	292.3	292.1	292.1	291.9	292.1	291.9	291.9	291.6
10°	303.5	303.1	303.4	302.7	302.7	302.5	302.5	302.4
12.5°	315.6	315.0	315.2	314.6	313.5	313.7	313.9	313.7
15°	327.3	326.7	326.0	325.6	324.9	325.1	325.1	324.9
17.5°	339.2	337.9	337.7	337.0	336.7	336.7	336.7	337.0
20°	351.4	350.6	350.4	349.8	349.6	350.2	350.4	350.0
22.5°	364.7	364.2	364.7	364.2	364.8	365.4	365.6	365.1
25°	381.4	380.9	381.6	383.1	383.9	384.4	385.5	385.0
27.5°	402.7	402.2	403.8	406.0	407.3	409.4	410.5	410.9
30°	430.3	432.3	433.1	437.5	438.3	441.9	441.9	443.4
32.5°	470.5	474.2	480.7	487.4	496.7	503.4	503.4	506.8
35°	558.7	560.2	565.2	566.2	568.2	570.4	568.2	570.0
37.5°	626.3	619.6	614.9	608.2	604.1	604.1	604.5	604.1
40°	660.8	658.3	656.1	650.5	649.6	649.5	649.5	650.3
42.5°	722.6	716.4	712.9	708.2	706.7	706.2	706.1	706.4
45°	803.0	792.9	783.6	778.8	774.7	770.8	772.1	772.1
47.5°	896.6	880.7	865.7	857.5	850.3	847.1	844.9	844.3
50°	1010.4	988.4	968.9	953.7	943.3	943.1	944.2	937.2
52.5°	1150.0	1115.2	1091.0	1070.3	1060.5	1059.4	1056.0	1052.1
55°	1304.7	1263.4	1223.4	1201.2	1188.5	1181.6	1177.4	1171.0
57.5°	1464.2	1408.6	1351.1	1315.5	1293.0	1277.4	1269.2	1265.6
60°	1587.0	1511.3	1435.4	1378.1	1340.8	1317.6	1303.4	1297.6
62.5°	1635.5	1532.7	1435.4	1360.2	1306.1	1274.2	1255.0	1246.6
65°	1577.8	1455.9	1345.3	1262.3	1202.1	1166.4	1145.5	1136.4
67.5°	1416.6	1309.0	1188.7	1106.1	1044.1	1008.9	986.2	979.5
70°	1187.5	1077.6	962.7	889.0	833.7	805.0	781.4	778.6
72.5°	892.5	797.6	699.2	638.2	593.7	546.2	534.1	540.1
75°	572.1	483.3	395.5	340.7	300.1	254.7	237.2	241.6
77.5°	270.9	209.8	151.4	117.1	98.2	84.1	80.4	78.2
80°	100.5	81.5	72.0	68.3	65.7	63.3	61.6	59.6
82.5°	65.0	63.5	61.6	60.9	59.0	56.0	50.3	48.0
85°	48.6	48.6	46.0	46.2	44.7	40.8	35.6	32.8
87.5°	14.2	12.7	11.7	10.8	10.6	9.5	6.9	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)