

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: P180071

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180071
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-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127 lumens
Efficiency: N/A
Efficacy: 75.0 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

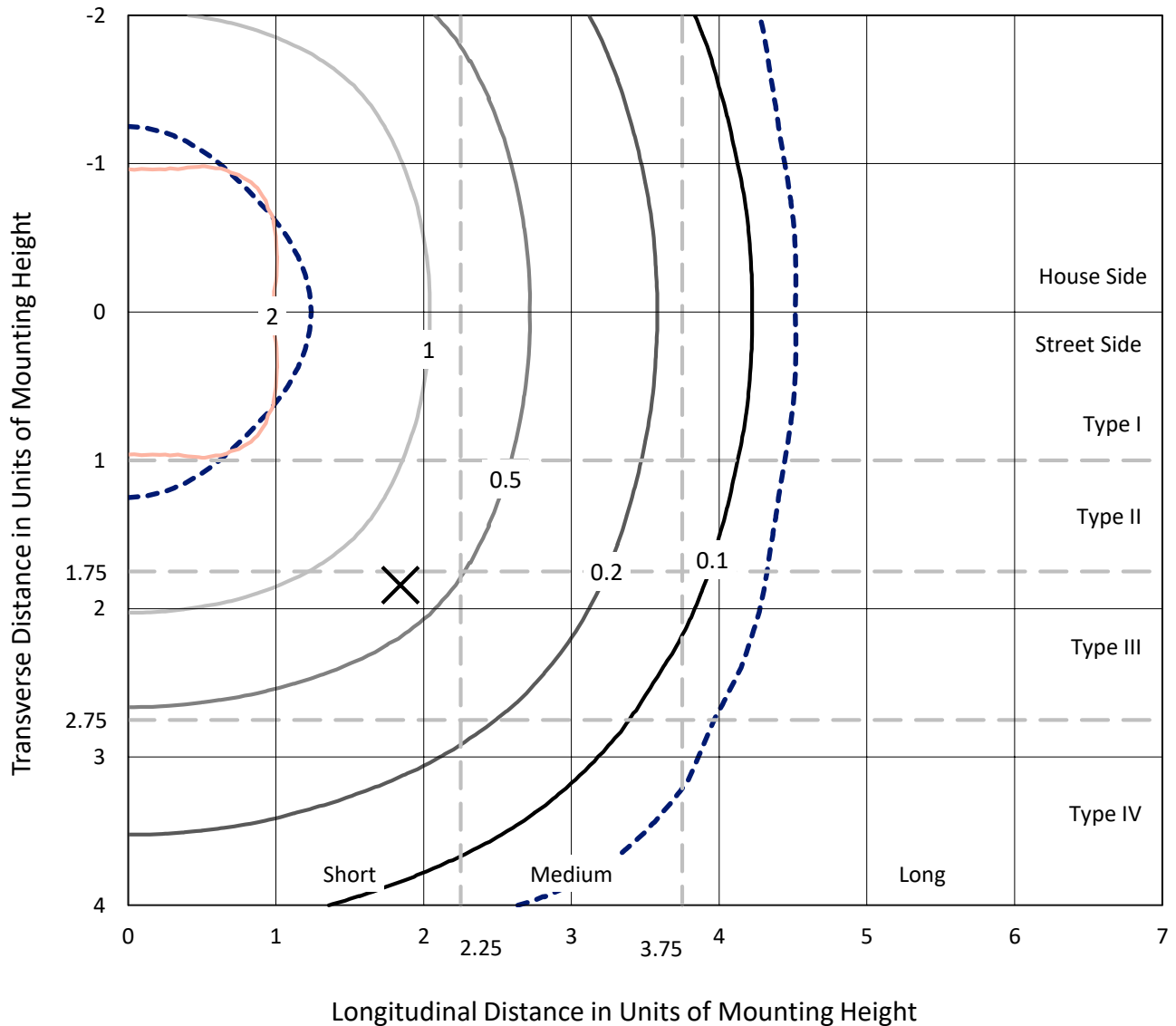
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

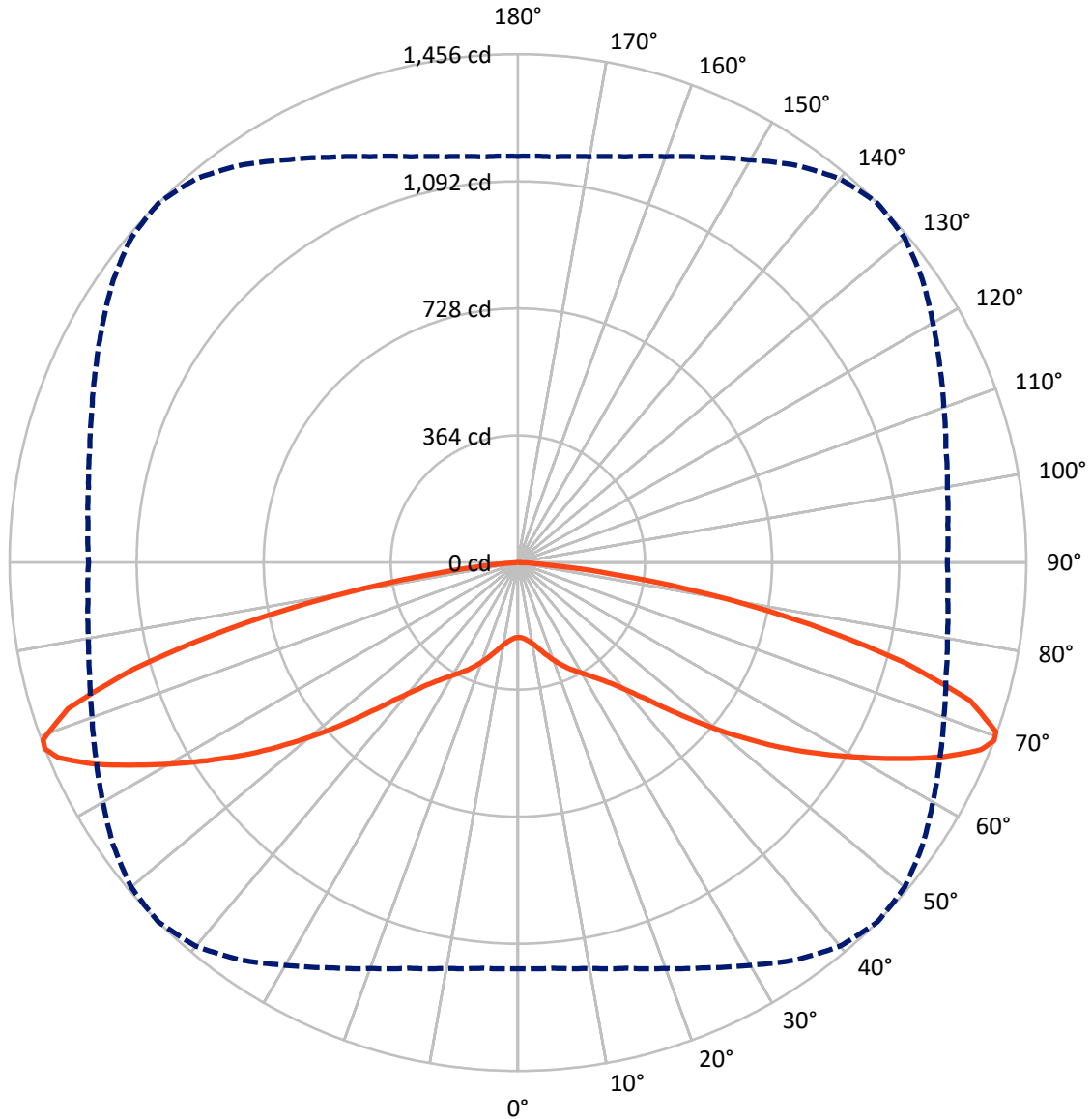
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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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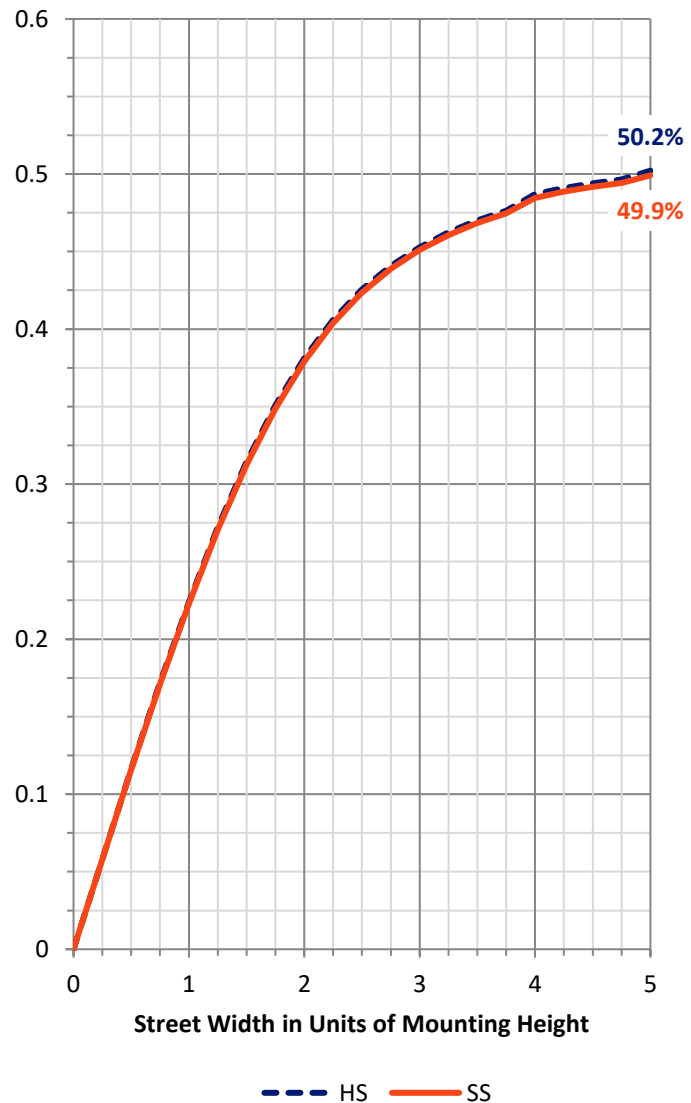
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.5	0.0	2063.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2063.5	0.0	2063.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4127.0	0.0	4127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.5
10°-20°	76.0	1.8
20°-30°	153.9	3.7
30°-40°	258.0	6.3
40°-50°	455.1	11.0
50°-60°	802.5	19.4
60°-70°	1225.1	29.7
70°-80°	1023.7	24.8
80°-90°	111.2	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°	4127.0	100.0
0°-180°	4127.0	100.0



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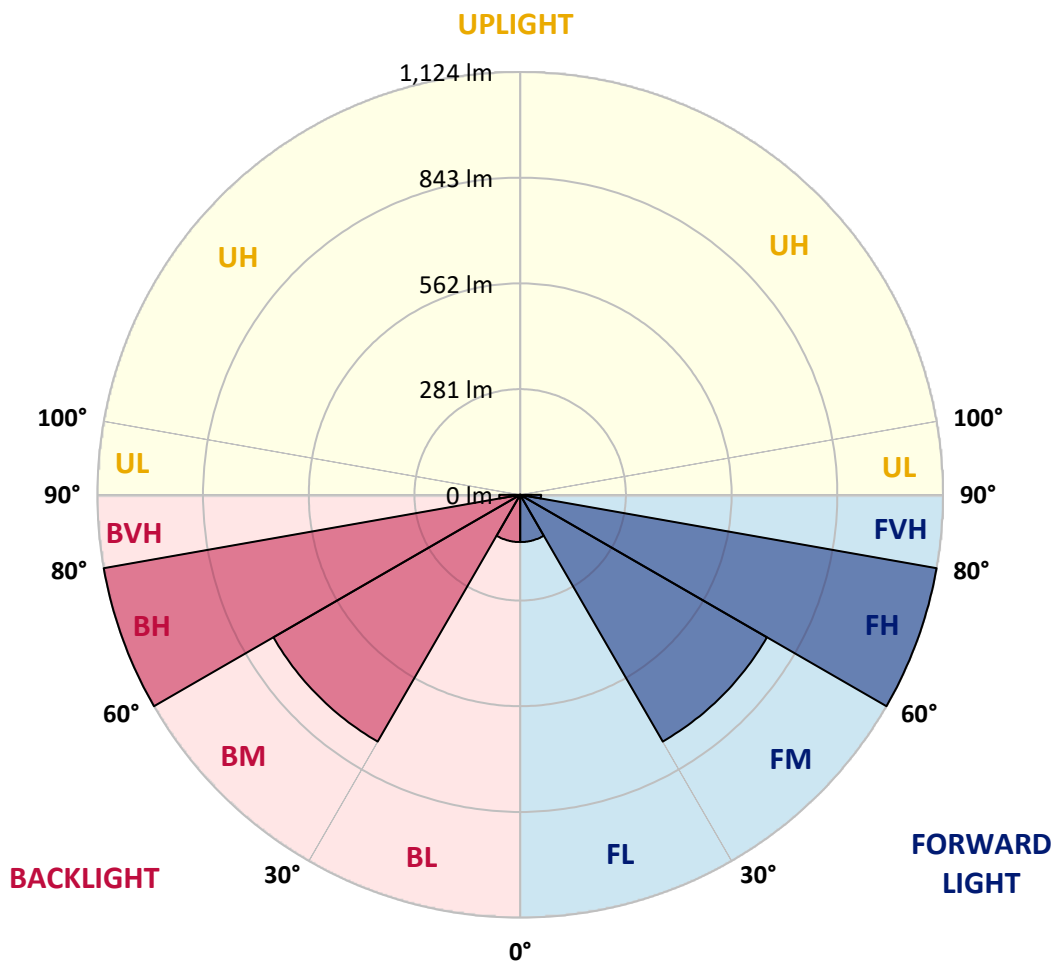
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.7	3.0			
FM	(30°-60°)	757.8	18.4			
FH	(60°-80°)	1124.4	27.2			G1/1800
FVH	(80°-90°)	55.6	1.3			G1/100
BL	(0°-30°)	125.7	3.0	B1/500		
BM	(30°-60°)	757.8	18.4	B1/1000		
BH	(60°-80°)	1124.4	27.2	B3/2500		G1/1800
BVH	(80°-90°)	55.6	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°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3
2.5°	216.0	216.5	216.0	216.0	216.0	216.0	216.0	215.6	215.6	215.6	216.0
5°	220.4	220.8	220.4	220.8	220.8	220.8	220.8	220.4	220.4	220.4	220.4
7.5°	227.3	227.3	227.3	227.7	227.3	227.3	227.7	227.3	227.3	227.3	227.3
10°	237.2	236.7	236.7	236.7	236.7	236.7	237.2	237.2	237.2	236.7	236.7
12.5°	249.3	248.8	249.3	249.3	249.8	249.8	249.8	249.8	249.8	249.8	249.3
15°	264.0	264.0	264.0	264.5	265.3	265.3	264.8	265.3	265.3	265.3	265.3
17.5°	280.5	281.3	280.5	280.8	281.3	280.8	281.7	282.1	282.6	282.1	280.8
20°	297.3	297.7	297.7	297.7	297.7	298.6	299.0	299.0	300.3	299.9	299.4
22.5°	313.3	314.1	314.1	314.5	314.5	315.8	315.8	315.8	316.7	317.6	316.7
25°	330.1	329.7	329.7	330.5	331.0	332.7	332.7	333.6	334.9	335.3	334.4
27.5°	345.2	344.8	344.8	346.1	346.5	348.7	348.7	350.4	351.3	351.7	350.9
30°	361.2	361.2	360.7	362.0	363.4	365.1	366.0	367.7	369.0	369.4	368.6
32.5°	380.3	379.4	379.8	380.7	381.5	383.3	384.6	386.7	388.5	388.8	388.0
35°	401.9	400.6	400.9	401.9	403.2	405.8	407.9	409.2	411.8	412.7	410.9
37.5°	425.6	426.0	425.6	427.7	430.0	432.9	435.5	437.3	439.9	441.1	439.9
40°	459.4	458.0	459.4	461.5	464.9	468.8	474.0	475.3	477.9	480.5	477.5
42.5°	503.0	502.0	505.1	506.8	510.7	515.1	521.5	525.0	528.8	530.6	528.0
45°	560.0	560.0	563.4	563.9	570.0	575.5	584.7	588.9	596.3	596.3	596.3
47.5°	623.1	625.7	627.8	632.1	636.5	646.8	655.9	665.4	672.3	673.2	671.9
50°	688.3	690.9	697.4	703.4	712.9	725.9	735.8	748.4	754.4	759.6	757.9
52.5°	760.5	760.9	768.7	776.5	790.3	804.6	820.6	833.5	844.3	849.0	845.1
55°	839.5	840.4	847.4	855.5	871.1	887.5	907.4	920.7	934.6	943.3	936.7
57.5°	925.1	925.5	932.5	942.4	960.9	977.4	996.4	1015.4	1028.4	1036.1	1031.8
60°	1019.7	1021.9	1027.1	1039.6	1057.3	1074.6	1093.6	1110.4	1125.6	1133.8	1129.5
62.5°	1120.8	1123.0	1130.3	1140.3	1155.8	1174.8	1193.0	1214.6	1227.2	1236.2	1229.7
65°	1188.7	1192.6	1204.2	1217.6	1240.6	1265.1	1286.3	1315.7	1330.8	1341.6	1335.5
67.5°	1193.0	1195.2	1209.4	1229.7	1260.4	1297.6	1340.8	1386.5	1416.4	1430.6	1420.3
69°	1163.6	1166.6	1180.5	1203.4	1237.5	1280.7	1332.1	1389.1	1435.0	1456.1	1446.1
70°	1130.3	1136.8	1151.9	1177.0	1210.2	1255.6	1308.8	1369.7	1423.3	1452.3	1444.9
72.5°	1060.4	1062.1	1072.0	1091.9	1117.4	1155.0	1205.1	1262.5	1313.6	1355.0	1361.0
75°	941.1	946.7	954.1	967.4	980.4	1007.6	1041.3	1080.7	1110.4	1142.4	1143.7
77.5°	711.3	728.1	733.7	736.7	742.3	763.9	793.3	827.4	852.1	857.2	856.4
80°	319.4	341.8	347.0	371.6	386.7	422.6	467.5	519.8	554.8	558.7	549.2
82.5°	62.7	67.0	78.2	97.7	133.1	154.2	183.6	220.4	254.0	273.5	261.9
85°	20.7	22.0	25.5	28.1	32.4	36.7	44.5	55.3	68.7	76.1	67.8
87.5°	8.2	8.2	9.5	10.3	11.3	11.3	11.3	10.3	10.0	8.2	7.3
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°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3
2.5°	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6
5°	220.4	219.9	219.9	219.5	219.5	219.5	219.5	219.5
7.5°	226.9	226.4	226.0	226.4	226.0	226.0	226.0	226.0
10°	236.7	235.9	235.4	235.1	235.1	235.1	234.6	234.6
12.5°	248.5	248.5	248.0	247.6	246.7	247.2	246.7	245.9
15°	264.5	263.5	263.2	262.7	261.9	261.9	261.9	261.4
17.5°	280.5	279.5	279.5	278.2	277.9	277.9	277.9	278.2
20°	298.1	296.8	296.0	295.1	294.2	294.7	293.9	294.7
22.5°	315.8	314.1	313.3	312.0	310.7	310.7	310.2	309.4
25°	333.1	331.0	330.1	328.8	327.1	327.1	326.2	325.4
27.5°	349.6	347.4	346.5	343.9	342.2	341.8	340.9	340.5
30°	367.7	365.1	363.8	361.2	358.6	358.2	356.9	356.9
32.5°	386.7	384.1	383.3	379.4	377.2	377.2	376.4	375.4
35°	410.5	406.6	405.8	401.9	398.8	398.8	398.0	398.4
37.5°	438.6	435.5	432.6	429.5	426.0	425.6	424.7	423.9
40°	476.2	472.7	469.2	464.9	461.9	461.0	459.7	459.4
42.5°	526.2	522.8	515.9	512.5	509.4	506.8	506.4	506.0
45°	590.2	585.9	581.1	574.7	570.8	565.2	564.3	562.1
47.5°	667.2	658.9	650.7	645.1	639.1	632.6	631.3	627.8
50°	748.8	742.3	728.5	719.4	710.0	703.4	699.1	697.9
52.5°	836.6	824.4	810.6	798.5	784.7	776.0	768.3	766.1
55°	928.1	910.8	893.6	879.3	865.5	855.1	847.7	844.3
57.5°	1019.7	1000.8	981.7	966.1	954.5	941.1	933.8	932.0
60°	1115.2	1097.0	1077.6	1062.1	1047.8	1036.1	1031.8	1023.6
62.5°	1216.3	1197.3	1179.2	1164.0	1145.9	1137.7	1130.3	1125.6
65°	1315.7	1293.7	1270.8	1254.8	1236.7	1224.9	1215.9	1209.4
67.5°	1392.7	1359.4	1328.7	1301.9	1277.2	1259.1	1247.4	1241.4
69°	1414.2	1372.8	1333.4	1298.4	1269.5	1249.1	1236.2	1230.1
70°	1411.6	1365.9	1322.6	1284.2	1252.7	1231.0	1218.5	1207.3
72.5°	1331.7	1289.8	1241.8	1199.9	1171.4	1150.6	1138.1	1132.1
75°	1136.4	1108.3	1073.8	1041.3	1020.6	1008.5	992.9	993.4
77.5°	827.4	828.3	804.9	771.7	748.4	744.1	737.1	730.2
80°	513.3	472.3	445.5	409.6	383.3	360.4	350.4	328.8
82.5°	236.7	184.9	143.4	108.5	83.3	65.2	57.0	46.7
85°	52.7	40.2	33.3	26.8	22.9	21.2	17.3	16.0
87.5°	7.3	6.5	6.0	5.6	4.7	3.4	2.6	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)