

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: P180131

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180131
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-F02-LED-E1-5WQ-8030
Description: ICON SITE SMALL 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: 3993.1 lumens
Efficiency: N/A
Efficacy: 72.6 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

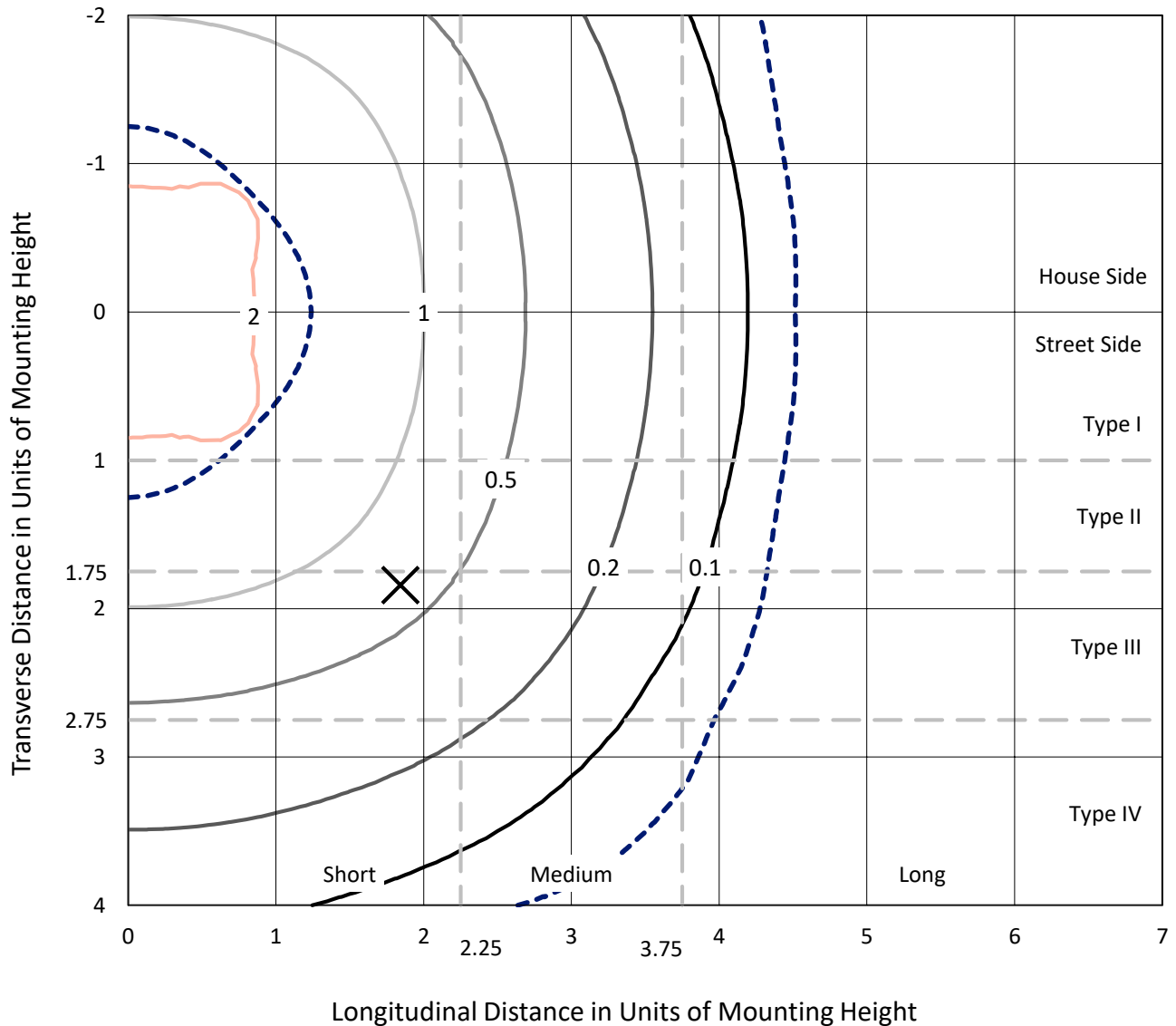
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

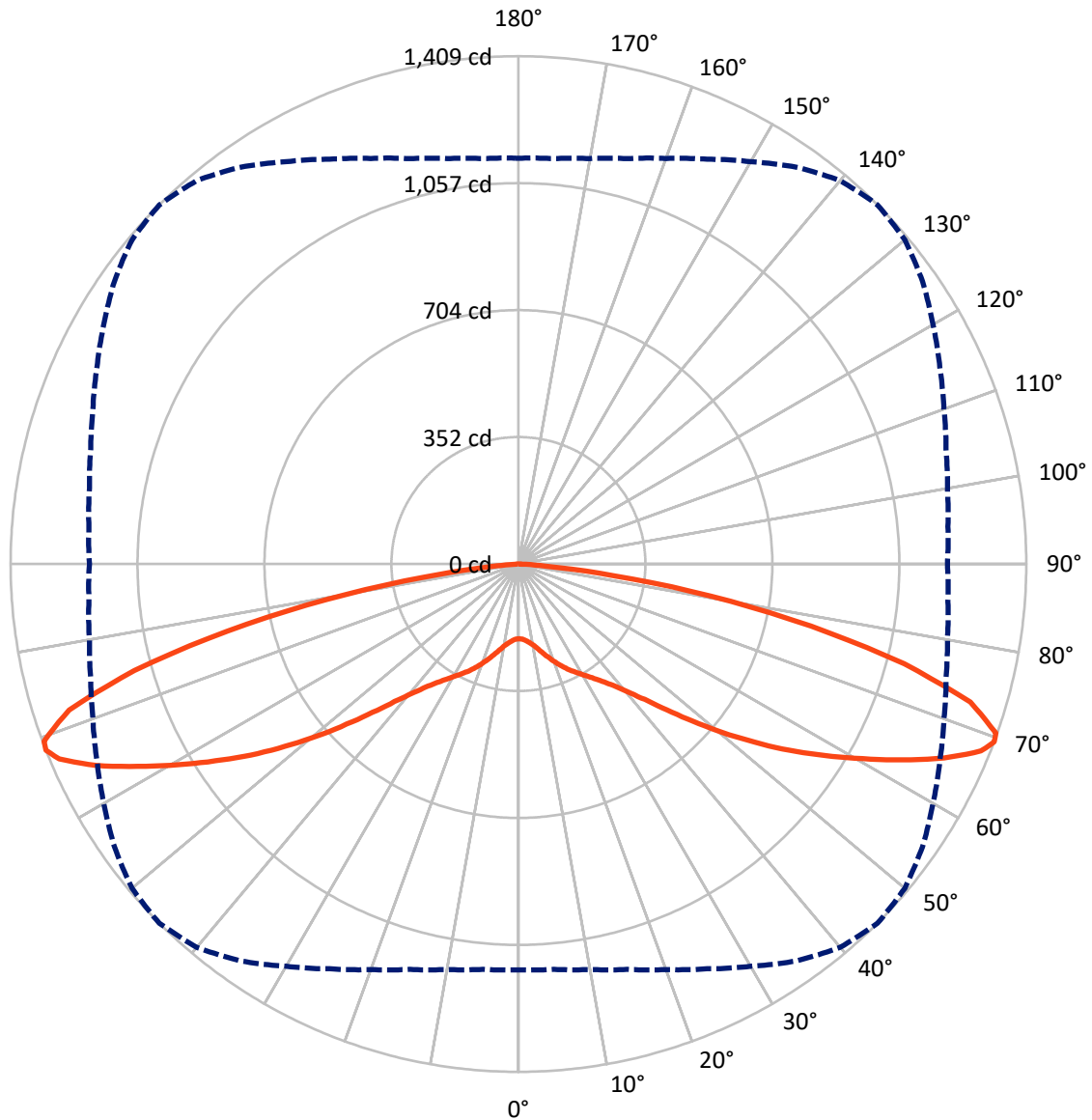
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 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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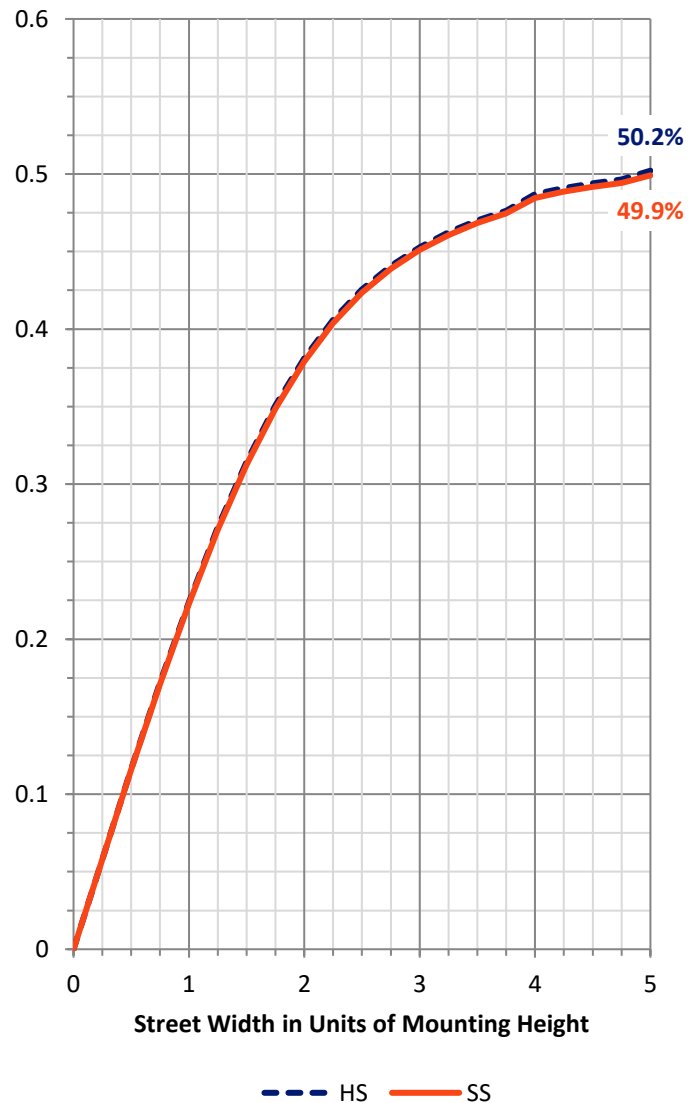
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1996.5	0.0	1996.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1996.5	0.0	1996.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3993.1	0.0	3993.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	0.5
10°-20°	73.5	1.8
20°-30°	148.9	3.7
30°-40°	249.6	6.3
40°-50°	440.3	11.0
50°-60°	776.4	19.4
60°-70°	1185.4	29.7
70°-80°	990.5	24.8
80°-90°	107.6	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°	3993.1	100.0
0°-180°	3993.1	100.0



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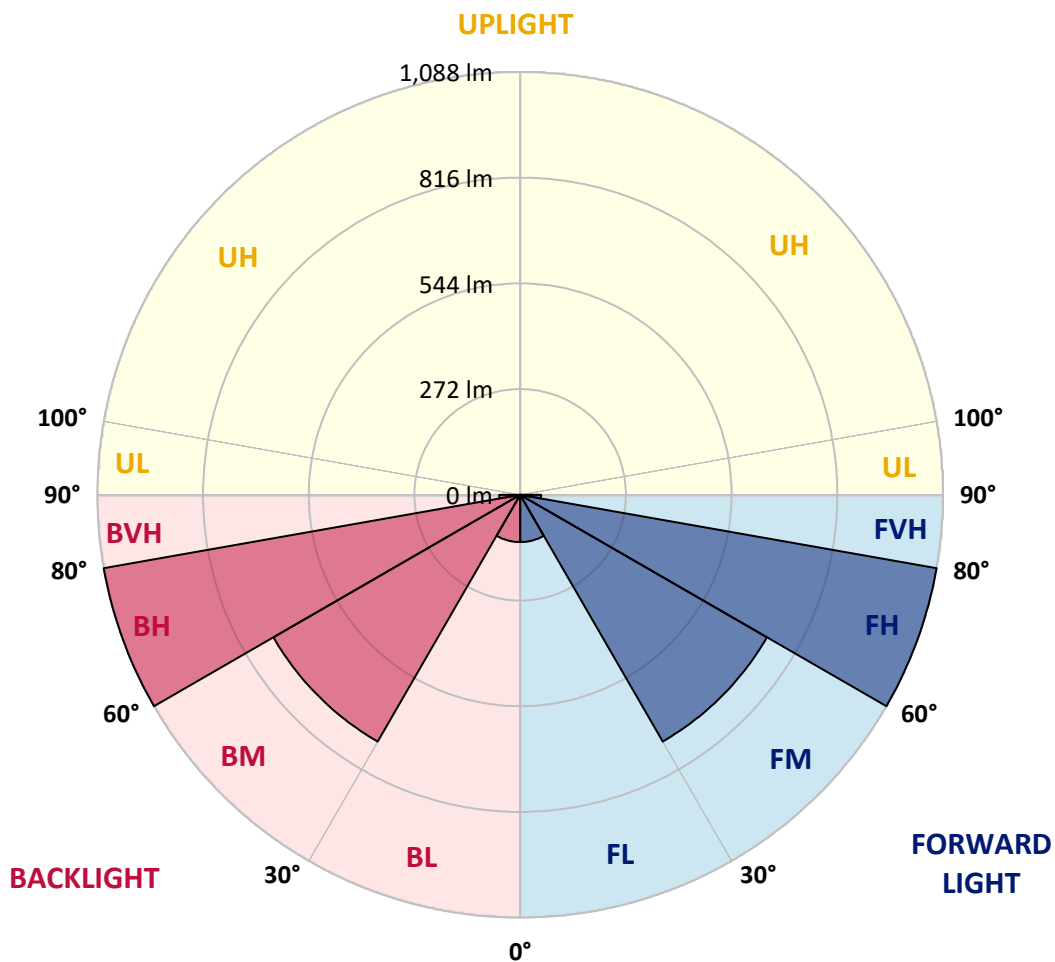
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.6	3.0			
FM	(30°-60°)	733.2	18.4			
FH	(60°-80°)	1088.0	27.2			G1/1800
FVH	(80°-90°)	53.8	1.3			G1/100
BL	(0°-30°)	121.6	3.0	B1/500		
BM	(30°-60°)	733.2	18.4	B1/1000		
BH	(60°-80°)	1088.0	27.2	B3/2500		G1/1800
BVH	(80°-90°)	53.8	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°	207.4	207.4	207.4	207.4	207.4	207.4	207.4	207.4	207.4	207.4	207.4
2.5°	209.0	209.5	209.0	209.0	209.0	209.0	209.0	208.6	208.6	208.6	209.0
5°	213.2	213.6	213.2	213.6	213.6	213.6	213.6	213.2	213.2	213.2	213.2
7.5°	219.9	219.9	219.9	220.3	219.9	219.9	220.3	219.9	219.9	219.9	219.9
10°	229.5	229.1	229.1	229.1	229.1	229.1	229.5	229.5	229.5	229.1	229.1
12.5°	241.2	240.8	241.2	241.2	241.6	241.6	241.6	241.6	241.6	241.6	241.2
15°	255.4	255.4	255.4	255.9	256.7	256.7	256.3	256.7	256.7	256.7	256.7
17.5°	271.3	272.2	271.3	271.7	272.2	271.7	272.6	273.0	273.4	273.0	271.7
20°	287.6	288.0	288.0	288.0	288.0	288.9	289.3	289.3	290.6	290.1	289.7
22.5°	303.1	303.9	303.9	304.4	304.4	305.6	305.6	305.6	306.4	307.3	306.4
25°	319.4	319.0	319.0	319.8	320.2	321.9	321.9	322.7	324.0	324.4	323.6
27.5°	334.0	333.6	333.6	334.9	335.3	337.4	337.4	339.0	339.9	340.3	339.5
30°	349.5	349.5	349.1	350.3	351.6	353.3	354.1	355.8	357.0	357.4	356.6
32.5°	367.9	367.1	367.5	368.3	369.2	370.8	372.1	374.2	375.8	376.3	375.4
35°	388.8	387.5	388.0	388.8	390.1	392.6	394.7	395.9	398.4	399.3	397.6
37.5°	411.8	412.2	411.8	413.9	416.0	418.9	421.4	423.1	425.6	426.8	425.6
40°	444.4	443.1	444.4	446.5	449.8	453.6	458.6	459.9	462.4	464.9	462.0
42.5°	486.6	485.8	488.7	490.4	494.2	498.3	504.6	507.9	511.7	513.4	510.9
45°	541.8	541.8	545.2	545.6	551.4	556.9	565.6	569.8	576.9	576.9	576.9
47.5°	602.8	605.4	607.4	611.6	615.8	625.8	634.6	643.8	650.5	651.3	650.1
50°	666.0	668.5	674.8	680.6	689.8	702.3	712.0	724.1	729.9	735.0	733.3
52.5°	735.8	736.2	743.7	751.3	764.6	778.4	793.9	806.4	816.9	821.5	817.7
55°	812.3	813.1	819.8	827.8	842.8	858.7	877.9	890.9	904.3	912.6	906.4
57.5°	895.1	895.5	902.2	911.8	929.8	945.7	964.1	982.5	995.0	1002.5	998.3
60°	986.6	988.7	993.7	1005.9	1023.0	1039.7	1058.1	1074.4	1089.1	1097.0	1092.8
62.5°	1084.5	1086.5	1093.7	1103.3	1118.3	1136.7	1154.3	1175.2	1187.3	1196.1	1189.8
65°	1150.1	1153.9	1165.1	1178.1	1200.3	1224.1	1244.6	1273.0	1287.6	1298.1	1292.2
67.5°	1154.3	1156.4	1170.2	1189.8	1219.5	1255.4	1297.3	1341.6	1370.4	1384.2	1374.2
69°	1125.8	1128.8	1142.2	1164.3	1197.3	1239.1	1288.9	1344.1	1388.4	1408.9	1399.3
70°	1093.7	1099.9	1114.6	1138.8	1171.0	1214.9	1266.3	1325.3	1377.1	1405.1	1398.0
72.5°	1025.9	1027.6	1037.2	1056.4	1081.1	1117.5	1166.0	1221.6	1270.9	1311.0	1316.9
75°	910.5	916.0	923.1	936.0	948.6	974.9	1007.5	1045.6	1074.4	1105.4	1106.6
77.5°	688.1	704.4	709.9	712.8	718.2	739.1	767.6	800.6	824.4	829.4	828.6
80°	308.9	330.7	335.7	359.5	374.2	408.9	452.3	502.9	536.8	540.6	531.4
82.5°	60.6	64.8	75.7	94.5	128.8	149.2	177.7	213.2	245.8	264.6	253.3
85°	20.1	21.3	24.7	27.2	31.4	35.5	43.1	53.5	66.5	73.6	65.6
87.5°	7.9	7.9	9.2	10.0	10.9	10.9	10.9	10.0	9.6	7.9	7.1
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°	207.4	207.4	207.4	207.4	207.4	207.4	207.4	207.4
2.5°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
5°	213.2	212.8	212.8	212.4	212.4	212.4	212.4	212.4
7.5°	219.5	219.1	218.6	219.1	218.6	218.6	218.6	218.6
10°	229.1	228.3	227.8	227.4	227.4	227.4	227.0	227.0
12.5°	240.4	240.4	240.0	239.6	238.7	239.1	238.7	237.9
15°	255.9	255.0	254.6	254.2	253.3	253.3	253.3	252.9
17.5°	271.3	270.5	270.5	269.2	268.8	268.8	268.8	269.2
20°	288.5	287.2	286.4	285.5	284.7	285.1	284.3	285.1
22.5°	305.6	303.9	303.1	301.8	300.6	300.6	300.2	299.3
25°	322.3	320.2	319.4	318.1	316.5	316.5	315.6	314.8
27.5°	338.2	336.1	335.3	332.8	331.1	330.7	329.9	329.4
30°	355.8	353.3	352.0	349.5	347.0	346.6	345.3	345.3
32.5°	374.2	371.7	370.8	367.1	365.0	365.0	364.1	363.3
35°	397.2	393.4	392.6	388.8	385.9	385.9	385.0	385.5
37.5°	424.3	421.4	418.5	415.6	412.2	411.8	411.0	410.1
40°	460.7	457.4	454.0	449.8	446.9	446.1	444.8	444.4
42.5°	509.2	505.9	499.2	495.8	492.9	490.4	490.0	489.6
45°	571.1	566.9	562.3	556.0	552.3	546.8	546.0	543.9
47.5°	645.5	637.5	629.6	624.2	618.3	612.0	610.8	607.4
50°	724.5	718.2	704.9	696.1	686.9	680.6	676.4	675.2
52.5°	809.4	797.7	784.3	772.6	759.2	750.8	743.3	741.2
55°	898.0	881.3	864.6	850.8	837.4	827.3	820.2	816.9
57.5°	986.6	968.2	949.8	934.8	923.5	910.5	903.4	901.8
60°	1079.0	1061.5	1042.7	1027.6	1013.8	1002.5	998.3	990.4
62.5°	1176.9	1158.5	1140.9	1126.3	1108.7	1100.8	1093.7	1089.1
65°	1273.0	1251.7	1229.5	1214.1	1196.5	1185.2	1176.4	1170.2
67.5°	1347.4	1315.2	1285.5	1259.6	1235.8	1218.2	1207.0	1201.1
69°	1368.3	1328.2	1290.1	1256.3	1228.3	1208.6	1196.1	1190.2
70°	1365.8	1321.5	1279.7	1242.5	1212.0	1191.1	1178.9	1168.1
72.5°	1288.5	1247.9	1201.5	1161.0	1133.4	1113.3	1101.2	1095.3
75°	1099.5	1072.3	1038.9	1007.5	987.5	975.8	960.7	961.1
77.5°	800.6	801.4	778.9	746.7	724.1	719.9	713.2	706.5
80°	496.7	456.9	431.0	396.3	370.8	348.7	339.0	318.1
82.5°	229.1	178.9	138.8	104.9	80.7	63.1	55.2	45.2
85°	51.0	38.9	32.2	25.9	22.2	20.5	16.7	15.5
87.5°	7.1	6.3	5.9	5.4	4.6	3.3	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)