

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: P180166

Luminaire Tested: **ICM-E02-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180166
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-5XQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

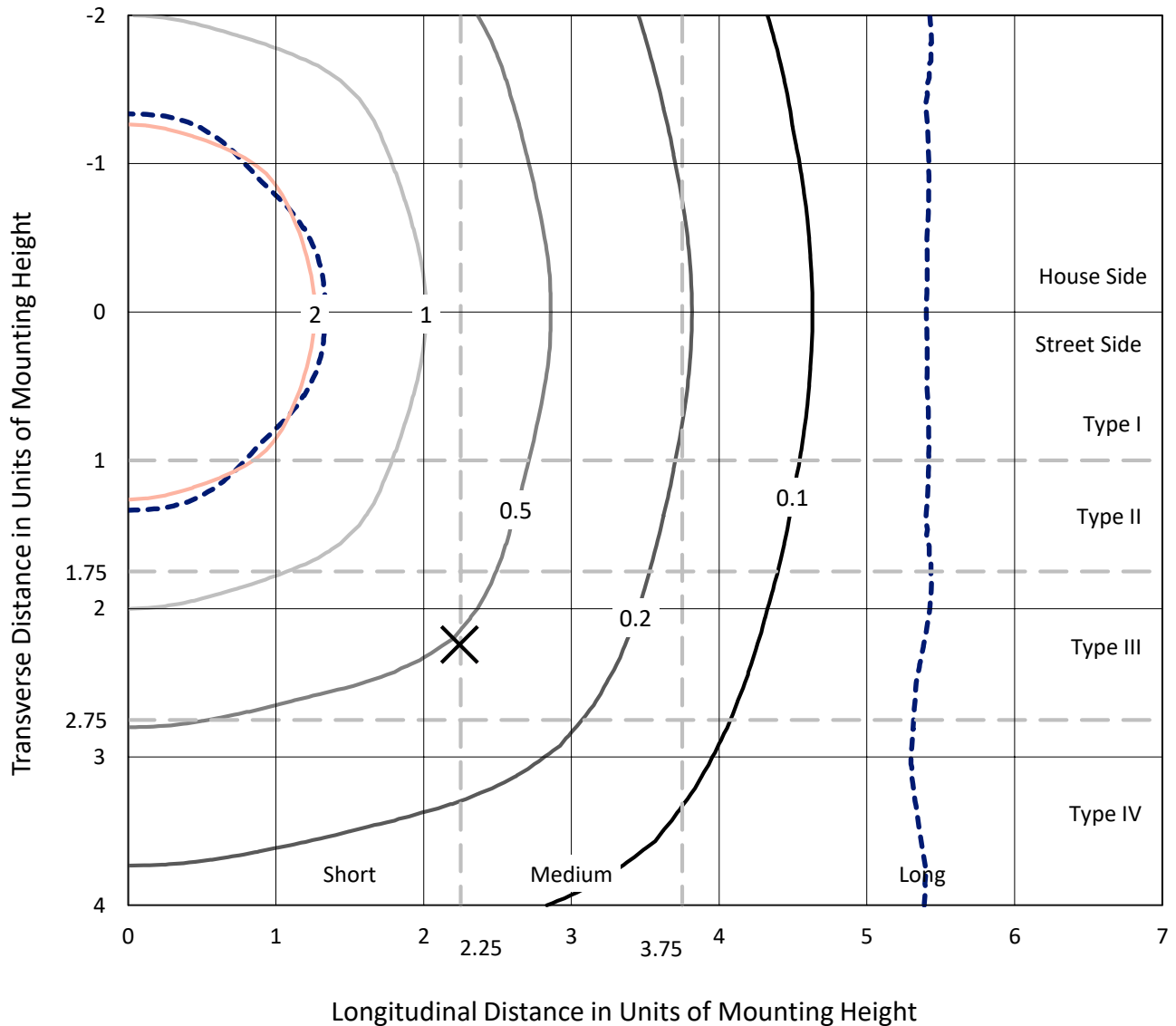
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

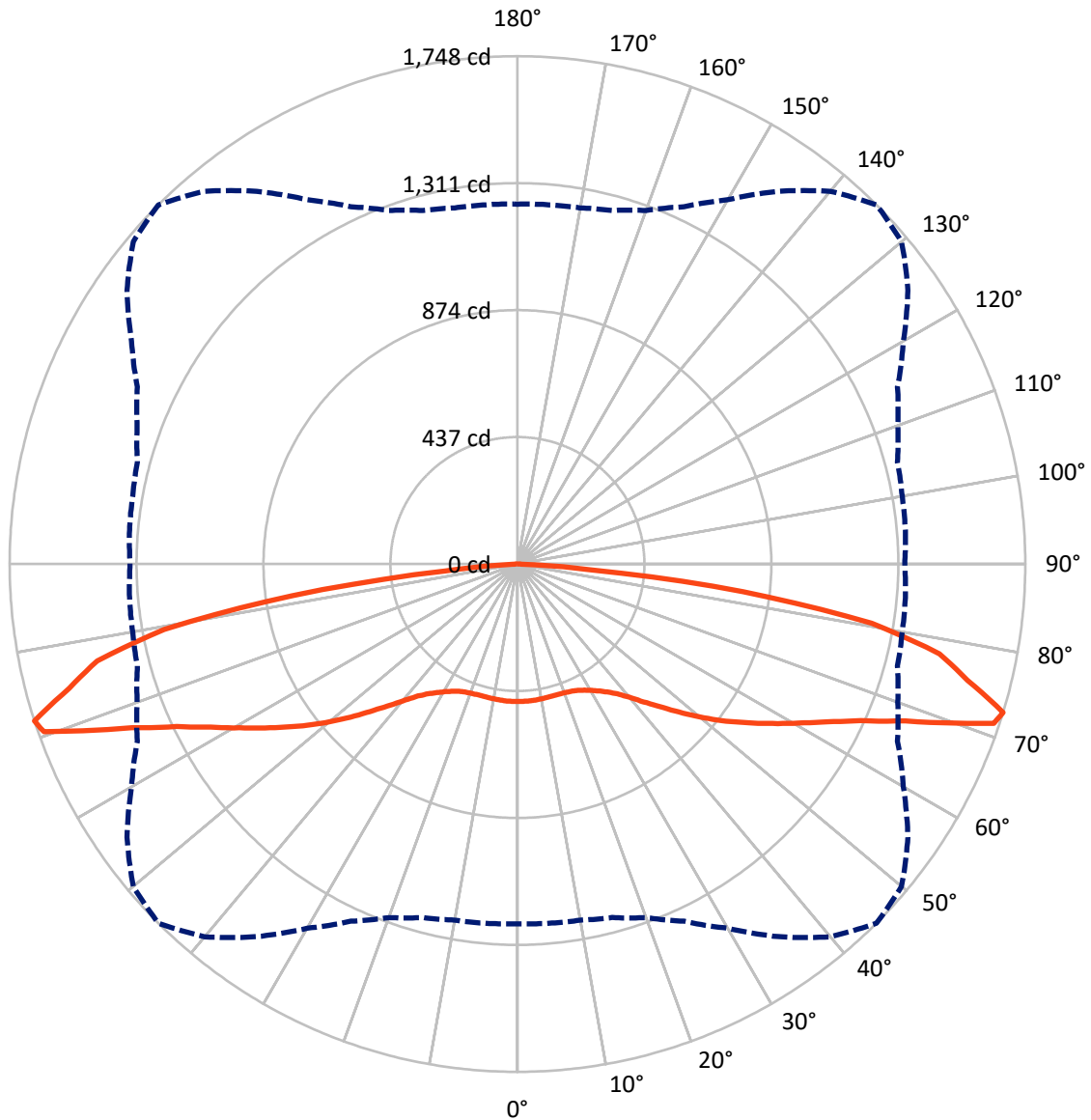
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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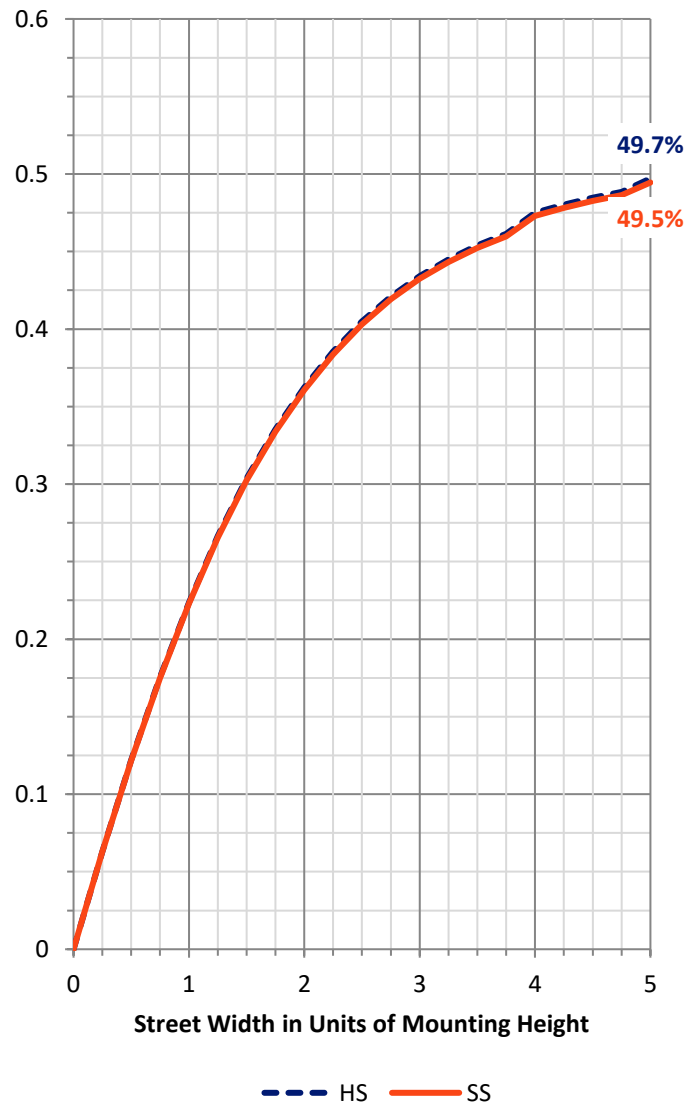
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2496.9	0.0	2496.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2496.9	0.0	2496.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4993.9	0.0	4993.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	0.9
10°-20°	133.4	2.7
20°-30°	223.4	4.5
30°-40°	340.5	6.8
40°-50°	543.8	10.9
50°-60°	836.1	16.7
60°-70°	1217.3	24.4
70°-80°	1371.3	27.5
80°-90°	283.1	5.7
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°	4993.9	100.0
0°-180°	4993.9	100.0



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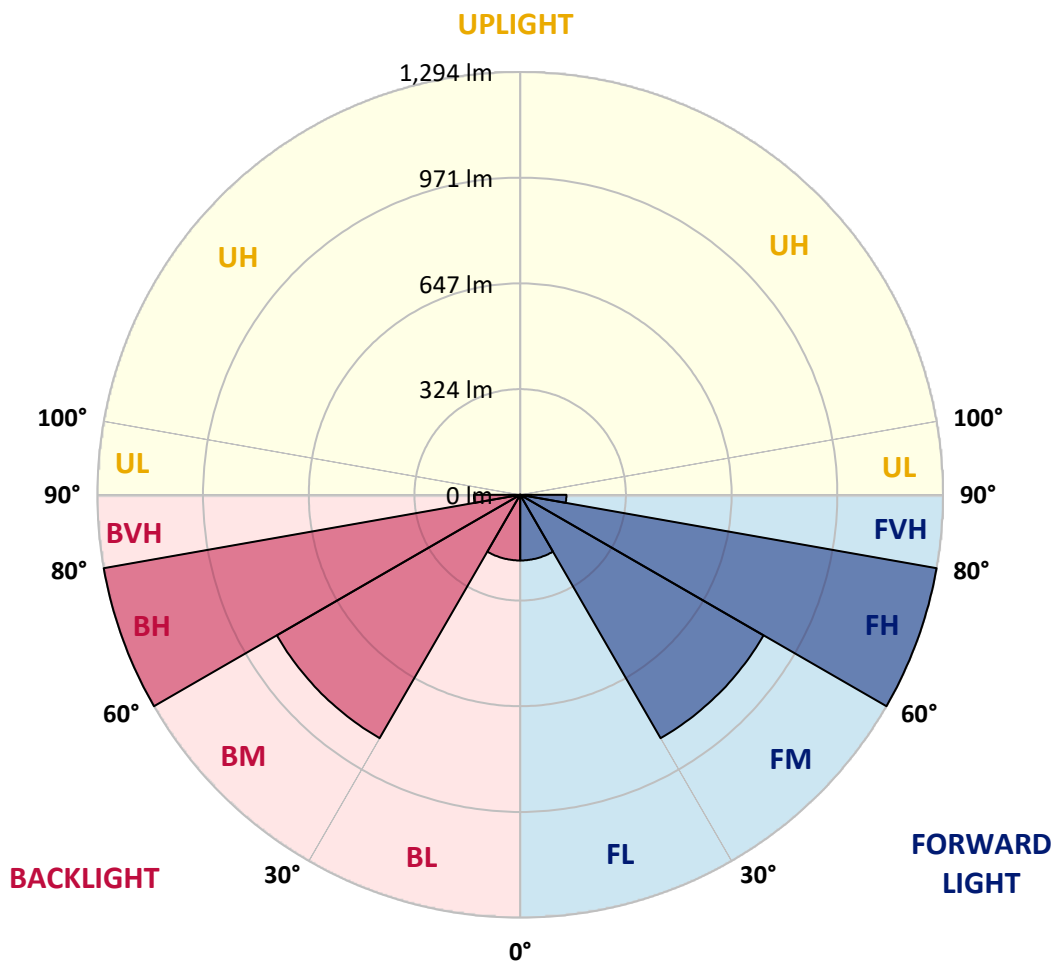
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.9	4.0			
FM	(30°-60°)	860.2	17.2			
FH	(60°-80°)	1294.3	25.9			G1/1800
FVH	(80°-90°)	141.5	2.8			G2/225
BL	(0°-30°)	200.9	4.0	B1/500		
BM	(30°-60°)	860.2	17.2	B1/1000		
BH	(60°-80°)	1294.3	25.9	B3/2500		G1/1800
BVH	(80°-90°)	141.5	2.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	474.0	474.2	474.0	473.9	474.0	473.8	473.6	473.4	472.5	473.0	473.8
5°	474.0	473.7	473.5	473.4	473.4	473.9	473.4	473.0	472.9	473.1	472.7
7.5°	473.7	473.1	472.9	472.7	472.9	473.0	472.7	472.1	472.5	472.1	471.6
10°	472.9	472.6	472.7	472.1	472.3	472.1	471.6	471.3	471.4	471.1	470.4
12.5°	473.1	472.5	472.4	472.1	472.0	471.8	471.3	470.5	470.7	470.4	469.8
15°	473.1	472.7	472.7	472.1	472.0	471.7	470.9	470.7	470.7	470.3	469.5
17.5°	473.4	473.1	473.1	472.5	472.2	472.1	471.2	470.8	471.2	470.4	470.0
20°	474.2	474.0	474.0	473.7	473.1	473.1	472.5	472.3	472.4	472.3	470.8
22.5°	475.8	475.8	476.0	475.9	475.7	475.9	475.4	475.4	475.5	475.5	474.3
25°	480.2	480.1	480.4	480.4	480.5	481.4	481.0	480.8	481.5	481.6	480.4
27.5°	488.6	488.4	488.6	488.8	489.5	490.7	490.4	490.8	491.9	491.6	490.5
30°	498.2	498.0	498.7	499.4	500.0	501.8	501.0	503.0	503.9	504.7	503.9
32.5°	512.4	512.4	513.6	514.1	515.4	517.1	517.4	519.0	520.2	521.5	520.6
35°	531.3	531.0	531.9	532.8	534.3	536.0	536.7	538.7	540.6	541.5	539.7
37.5°	560.0	558.6	560.3	560.8	562.0	562.4	564.3	566.9	568.7	568.6	567.4
40°	599.1	598.8	598.1	597.4	599.2	599.8	599.8	603.4	606.5	606.0	605.9
42.5°	644.7	643.4	642.6	642.6	643.7	643.9	648.0	650.6	652.8	653.3	652.8
45°	693.5	692.3	692.6	692.1	692.5	694.1	696.6	701.4	705.6	705.7	703.4
47.5°	746.1	742.5	745.3	741.3	743.8	745.0	751.0	758.1	765.4	766.6	764.7
50°	799.4	799.1	798.9	798.1	799.3	802.1	809.3	820.5	827.5	832.2	829.0
52.5°	857.9	855.9	855.0	853.7	854.9	860.5	870.5	880.2	892.9	898.3	894.0
55°	914.6	914.1	910.6	910.5	912.9	921.7	932.7	944.7	958.3	964.4	962.8
57.5°	973.0	969.2	968.2	966.6	971.5	979.8	993.3	1014.7	1029.0	1035.8	1031.9
60°	1030.1	1027.2	1024.9	1024.5	1027.8	1039.4	1058.8	1084.5	1102.1	1111.1	1104.8
62.5°	1091.4	1089.5	1086.9	1083.8	1091.0	1105.9	1129.9	1158.4	1184.5	1195.4	1185.9
65°	1167.4	1163.6	1160.8	1157.0	1162.9	1181.4	1211.7	1251.9	1286.8	1299.6	1292.8
67.5°	1247.8	1244.3	1244.6	1242.2	1252.7	1278.4	1317.4	1372.0	1418.8	1440.7	1427.9
70°	1318.0	1319.9	1320.4	1330.0	1348.0	1387.3	1452.2	1537.7	1608.7	1642.1	1628.3
71°	1297.3	1301.6	1308.3	1318.2	1349.4	1395.8	1484.4	1587.9	1672.7	1729.2	1710.2
72.5°	1238.7	1241.3	1244.7	1259.8	1295.1	1356.6	1447.7	1566.0	1675.0	1748.2	1726.2
75°	1153.9	1156.3	1157.5	1168.1	1200.2	1253.8	1337.3	1442.2	1538.4	1600.8	1594.5
77.5°	1025.9	1026.2	1035.4	1051.8	1087.8	1149.1	1237.0	1346.0	1436.3	1484.8	1454.1
80°	736.7	731.7	741.1	762.2	806.7	877.1	967.1	1091.4	1191.8	1237.0	1189.4
82.5°	280.3	295.4	319.4	354.2	369.3	447.4	531.5	604.6	689.0	783.5	759.8
85°	30.0	33.9	42.5	52.7	66.6	92.1	127.3	173.8	214.1	251.7	223.5
87.5°	11.3	11.5	12.8	14.8	15.1	15.7	16.7	19.5	18.1	15.7	12.7
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°	473.1	473.1	473.1	473.1	473.1	473.1	473.1	473.1
2.5°	473.1	473.3	473.1	473.3	473.3	472.7	472.9	472.7
5°	473.0	472.7	472.7	472.9	472.7	473.0	472.7	472.9
7.5°	472.4	471.6	471.8	471.8	471.6	472.0	471.7	471.6
10°	471.1	470.0	470.5	470.3	470.1	470.3	470.3	470.3
12.5°	469.9	469.2	469.4	469.2	469.1	469.5	469.4	469.5
15°	469.6	468.6	468.5	468.2	468.3	468.6	468.6	469.0
17.5°	469.4	468.1	467.9	467.7	467.8	468.3	468.5	468.2
20°	470.1	469.1	468.8	468.6	468.5	469.0	469.0	469.0
22.5°	473.9	472.6	472.4	471.4	470.9	471.4	471.1	471.1
25°	479.7	478.1	477.6	476.2	475.1	475.2	474.8	474.4
27.5°	490.3	487.9	487.4	486.2	484.8	485.0	484.3	484.1
30°	502.6	500.5	498.7	496.9	495.3	494.6	493.7	493.6
32.5°	518.7	516.4	514.1	512.0	509.7	508.7	507.2	506.4
35°	538.4	535.4	532.7	531.3	528.9	527.7	526.7	527.8
37.5°	566.0	562.2	560.9	559.3	557.7	555.9	556.3	555.9
40°	604.3	600.9	599.5	596.6	596.2	594.1	595.4	594.1
42.5°	651.5	645.3	644.3	642.0	641.1	640.0	640.6	639.6
45°	702.9	697.3	696.3	692.5	692.6	689.9	690.9	690.9
47.5°	760.7	754.9	750.1	747.3	746.2	744.6	745.5	745.3
50°	820.5	812.5	807.1	801.7	799.4	800.0	798.1	801.3
52.5°	884.6	872.7	865.0	859.9	855.4	856.4	856.7	857.7
55°	950.9	935.7	924.7	918.1	914.0	914.2	915.4	916.6
57.5°	1017.7	998.6	983.7	973.8	971.2	972.4	972.4	972.3
60°	1086.9	1064.1	1044.8	1033.6	1031.3	1030.5	1035.7	1034.1
62.5°	1161.1	1133.8	1114.0	1099.5	1096.2	1098.5	1103.1	1102.0
65°	1259.7	1221.9	1196.2	1182.0	1176.2	1178.6	1184.8	1184.5
67.5°	1386.8	1334.0	1300.0	1281.7	1277.5	1280.4	1283.7	1287.1
70°	1576.8	1501.2	1452.8	1413.2	1396.2	1392.9	1396.4	1396.5
71°	1643.6	1556.8	1479.8	1431.5	1403.5	1391.7	1392.7	1386.8
72.5°	1640.8	1534.0	1443.8	1393.2	1354.4	1345.0	1340.5	1333.4
75°	1530.3	1434.0	1355.7	1300.6	1263.3	1252.1	1244.0	1243.5
77.5°	1387.8	1316.8	1230.5	1172.0	1126.6	1108.2	1099.9	1099.7
80°	1115.6	1009.3	946.2	911.0	856.2	840.4	823.5	817.3
82.5°	674.7	527.3	428.7	380.8	354.5	291.9	262.0	247.8
85°	157.2	111.6	76.9	50.5	36.4	28.9	22.2	19.6
87.5°	10.6	8.4	7.4	6.0	4.7	4.5	2.8	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)