

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: P472179

Luminaire Tested: **CCW-VA-3-827-U-T4W**

Issue Date: 01/27/2021

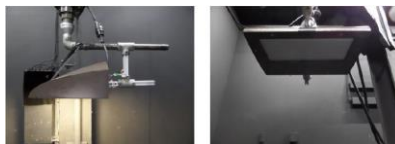
Test Information

Test Method: LM-79-08
Report Number: P472179
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-827-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4569 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

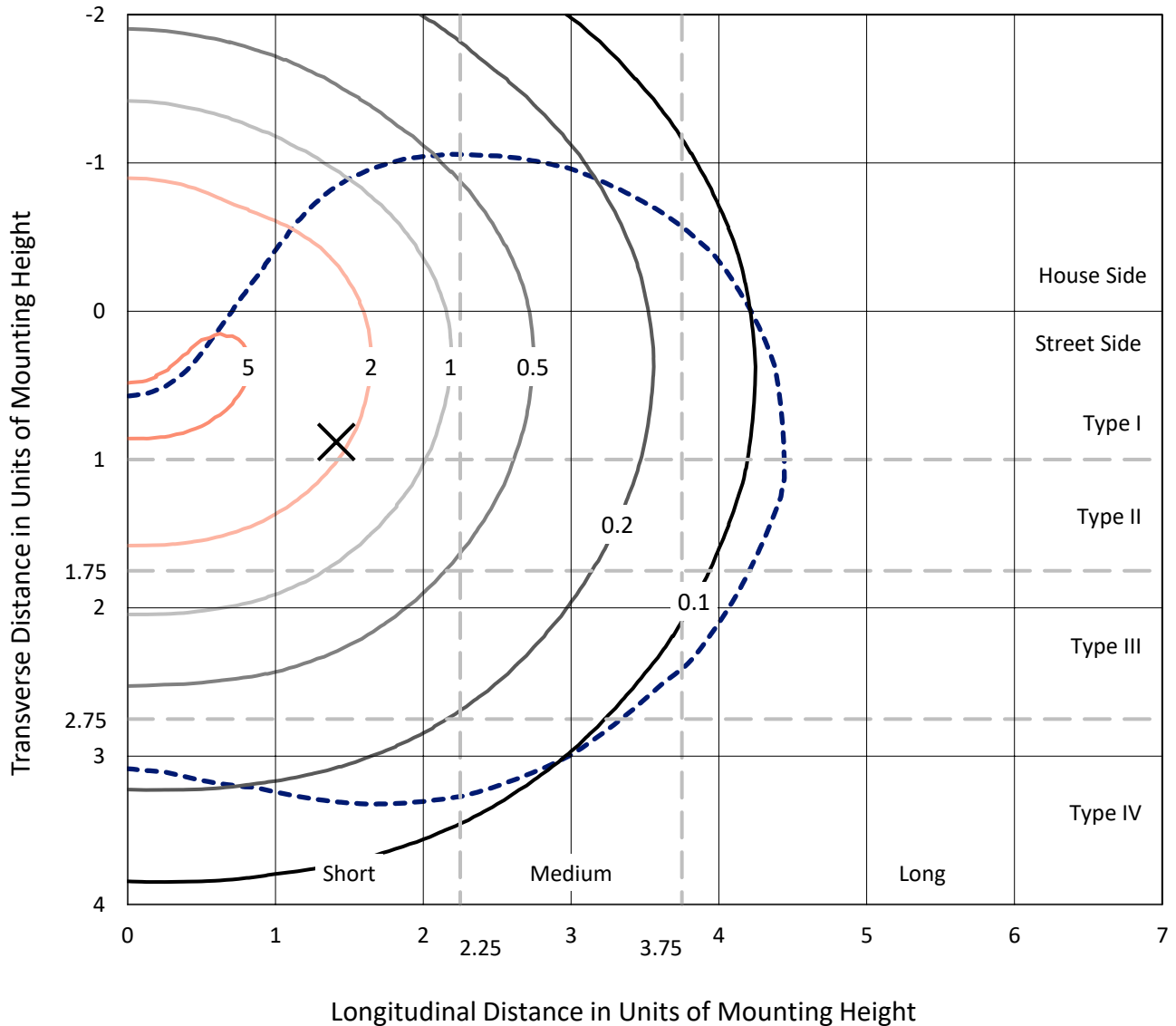
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472179
 CATALOG NUMBER: CCW-VA-3-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

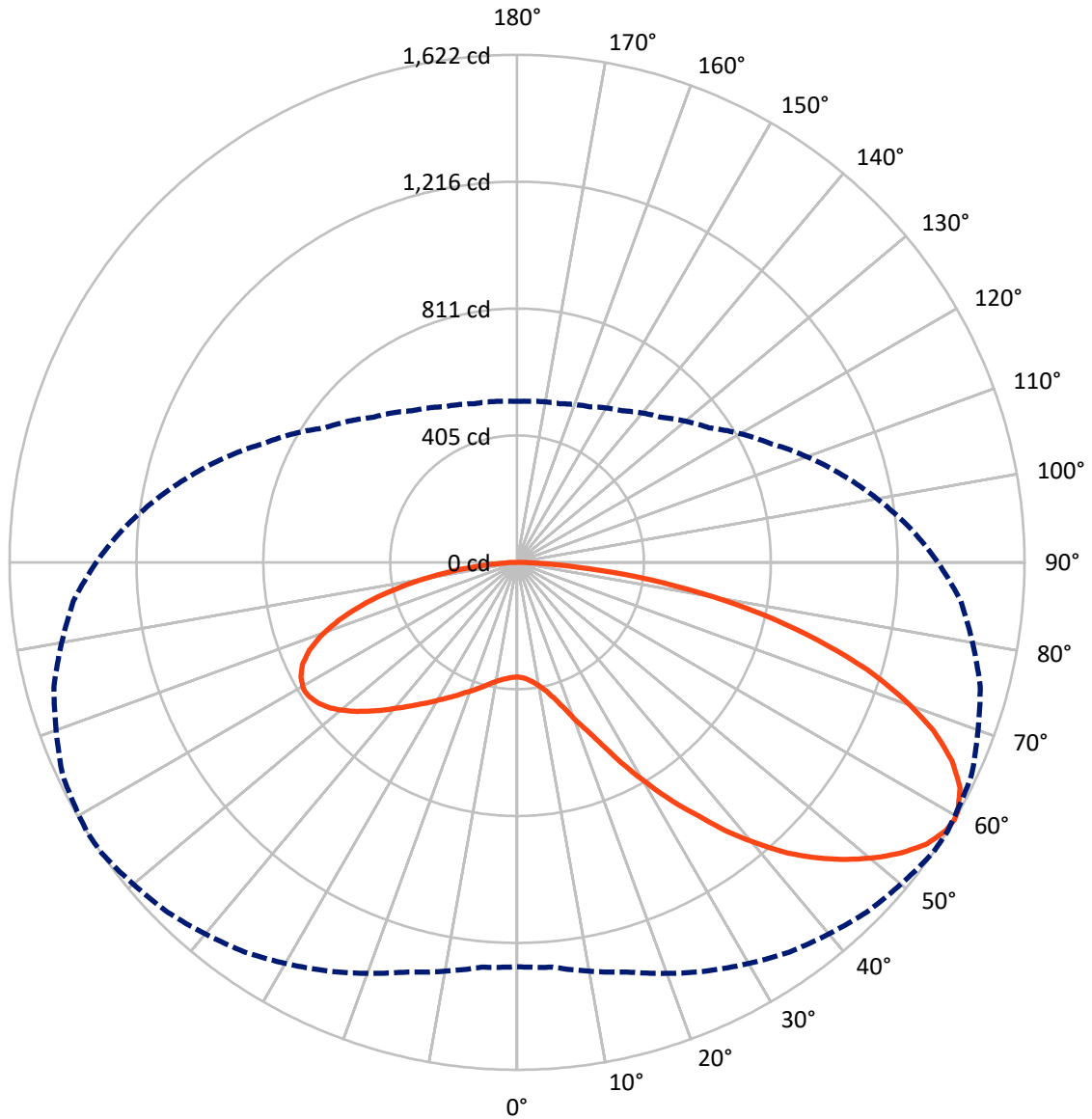
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P472179
CATALOG NUMBER: CCW-VA-3-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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 CATALOG NUMBER: CCW-VA-3-827-U-T4W

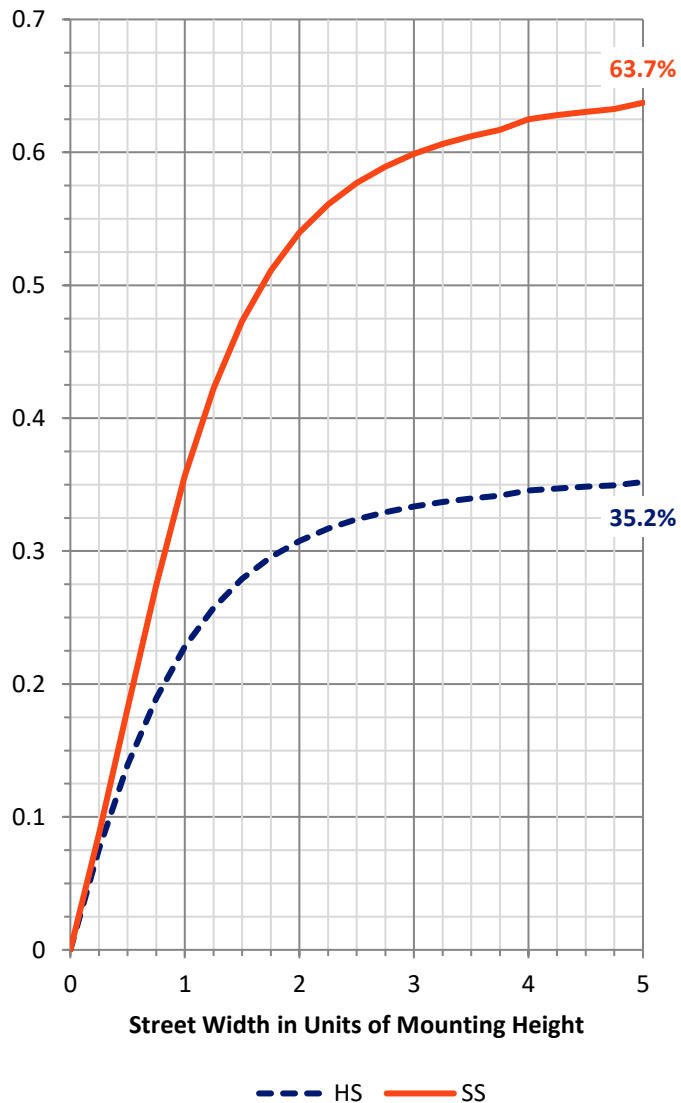
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1629.5	0.0	1629.5
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	2939.5	0.0	2939.5
	% Fixture	64.3	0.0	64.3
Total	Lumens	4569.0	0.0	4569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.8
10°-20°	123.9	2.7
20°-30°	261.6	5.7
30°-40°	481.4	10.5
40°-50°	750.4	16.4
50°-60°	986.0	21.6
60°-70°	1033.2	22.6
70°-80°	716.3	15.7
80°-90°	179.9	3.9
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°	4569.0	100.0
0°-180°	4569.0	100.0

Coefficient of Utilization



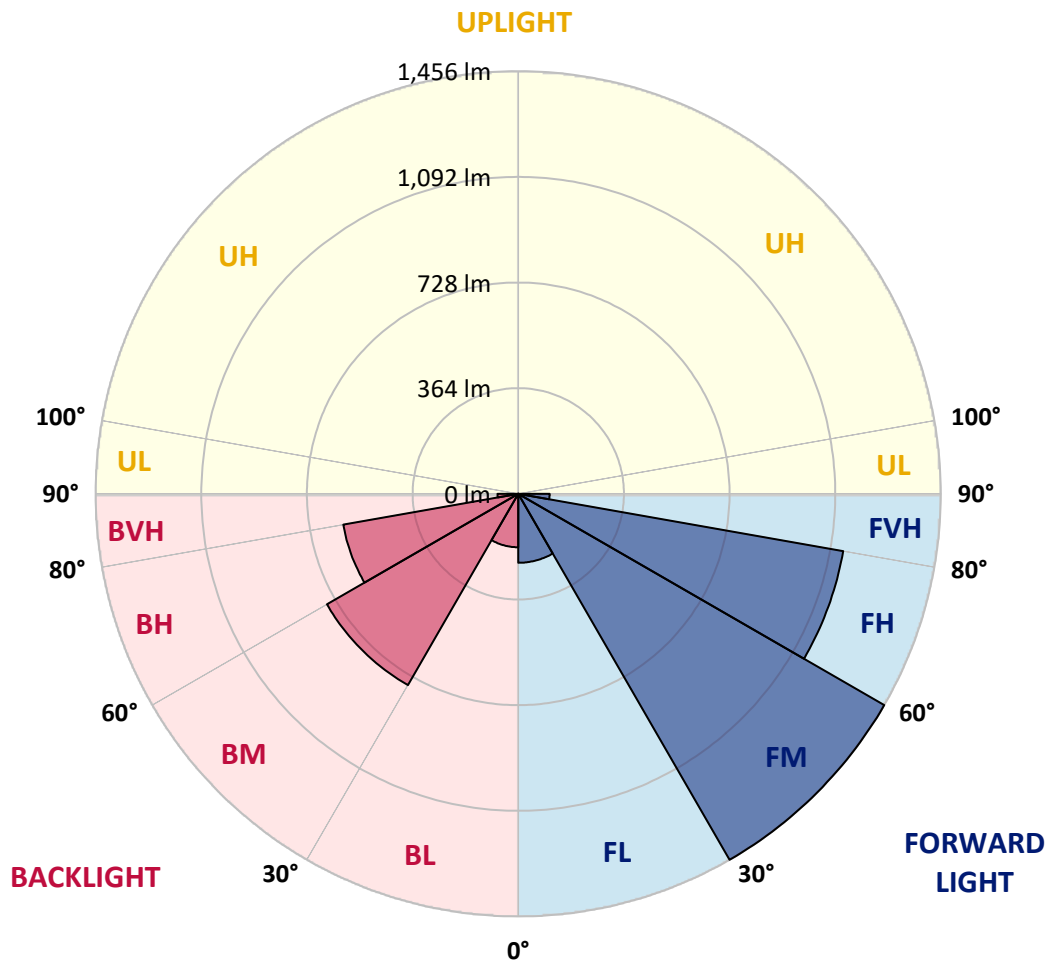
REPORT NUMBER: P472179
 CATALOG NUMBER: CCW-VA-3-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.7	5.2			
FM (30°-60°)	1456.5	31.9			
FH (60°-80°)	1137.2	24.9			G1/1800
FVH (80°-90°)	108.1	2.4			G2/225
BL (0°-30°)	184.2	4.0	B1/500		
BM (30°-60°)	761.3	16.7	B1/1000		
BH (60°-80°)	612.2	13.4	B2/1000		G2/1000
BVH (80°-90°)	71.8	1.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P472179

CATALOG NUMBER: CCW-VA-3-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	371.4	371.4	371.4	370.4	370.4	370.4	369.4	369.4	369.4	368.3	367.3
5°	379.6	379.6	378.6	379.6	378.6	377.6	376.6	376.6	376.6	375.5	374.5
7.5°	391.0	392.0	391.0	392.0	391.0	389.9	387.9	387.9	386.8	384.8	382.7
10°	408.5	408.5	408.5	407.4	406.4	405.4	404.3	403.3	402.3	399.2	396.1
12.5°	430.1	430.1	430.1	428.0	428.0	425.9	424.9	423.9	421.8	417.7	413.6
15°	456.8	455.8	458.9	458.9	457.8	457.8	454.8	452.7	450.6	444.5	435.2
17.5°	492.8	491.8	494.9	496.9	496.9	498.0	492.8	490.8	483.6	475.3	463.0
20°	541.2	539.1	542.2	544.3	542.2	544.3	539.1	540.1	529.9	515.5	495.9
22.5°	593.6	593.6	596.7	596.7	597.8	599.8	593.6	590.6	582.3	561.8	537.1
25°	658.5	663.6	663.6	663.6	667.7	668.8	662.6	657.4	646.1	618.3	584.4
27.5°	737.7	736.7	735.6	741.8	741.8	743.9	739.7	737.7	724.3	690.4	638.9
30°	822.1	815.9	820.0	822.1	826.2	829.3	825.1	819.0	802.5	765.5	701.7
32.5°	899.2	903.3	909.5	911.6	917.7	918.8	908.5	908.5	892.0	844.7	778.8
35°	986.7	986.7	1003.1	1010.3	1010.3	1016.5	1001.1	992.8	981.5	932.1	848.8
37.5°	1062.8	1064.9	1078.2	1094.7	1096.8	1106.0	1094.7	1091.6	1071.0	1020.6	928.0
40°	1133.8	1135.9	1152.3	1171.9	1183.2	1197.6	1186.3	1181.1	1159.5	1101.9	1007.2
42.5°	1189.4	1193.5	1214.0	1242.9	1261.4	1278.9	1273.7	1270.6	1240.8	1180.1	1080.3
45°	1231.5	1238.7	1267.5	1301.5	1327.2	1352.9	1354.0	1347.8	1320.0	1252.1	1151.3
47.5°	1265.5	1273.7	1305.6	1348.8	1387.9	1419.8	1426.0	1418.8	1393.1	1322.1	1215.1
50°	1293.3	1297.4	1333.4	1389.0	1437.3	1477.4	1489.8	1483.6	1461.0	1380.7	1270.6
52.5°	1307.7	1313.8	1355.0	1418.8	1477.4	1525.8	1544.3	1541.2	1514.5	1434.2	1320.0
55°	1314.9	1321.0	1369.4	1442.5	1508.3	1564.9	1587.5	1588.6	1562.8	1482.6	1366.3
57.5°	1306.6	1314.9	1367.3	1448.6	1521.7	1582.4	1617.4	1616.3	1595.8	1519.6	1405.4
59°	1292.2	1298.4	1355.0	1440.4	1519.6	1580.3	1620.4	1621.5	1603.0	1532.0	1422.9
60°	1275.8	1283.0	1340.6	1430.1	1511.4	1573.1	1615.3	1617.4	1601.9	1535.1	1430.1
62.5°	1219.2	1228.5	1292.2	1387.9	1476.4	1535.1	1585.5	1588.6	1580.3	1526.8	1435.3
65°	1140.0	1148.2	1217.1	1319.0	1411.6	1472.3	1519.6	1526.8	1525.8	1489.8	1414.7
67.5°	1043.3	1044.3	1109.1	1220.2	1316.9	1376.6	1421.9	1434.2	1443.5	1419.8	1354.0
70°	927.0	926.0	988.7	1098.8	1195.5	1258.3	1303.6	1311.8	1335.5	1316.9	1263.4
72.5°	783.0	795.3	853.9	946.5	1042.2	1112.2	1152.3	1167.7	1181.1	1185.2	1141.0
75°	647.1	660.5	706.8	793.2	875.6	940.4	983.6	990.8	1015.5	1021.7	980.5
77.5°	517.5	518.5	552.5	621.4	696.5	750.0	785.0	803.5	816.9	829.3	786.0
80°	363.2	368.3	392.0	441.4	500.0	556.6	585.4	597.8	607.0	615.3	600.9
82.5°	227.4	229.4	244.9	274.7	314.8	346.7	376.6	386.8	388.9	407.4	405.4
85°	108.0	109.1	119.3	133.8	151.2	177.0	188.3	188.3	202.7	216.1	216.1
87.5°	14.4	14.4	17.5	19.5	24.7	31.9	44.2	45.3	53.5	59.7	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472179
 CATALOG NUMBER: CCW-VA-3-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	367.3	367.3	367.3	367.3	367.3	366.3	367.3	367.3	367.3	367.3	367.3
5°	374.5	373.5	372.4	371.4	371.4	370.4	370.4	370.4	370.4	370.4	370.4
7.5°	381.7	380.7	379.6	377.6	376.6	375.5	375.5	374.5	374.5	374.5	374.5
10°	394.1	393.0	388.9	385.8	383.8	382.7	381.7	380.7	379.6	379.6	379.6
12.5°	410.5	408.5	401.3	397.1	394.1	392.0	389.9	388.9	387.9	386.8	386.8
15°	431.1	425.9	416.7	410.5	406.4	403.3	400.2	398.2	397.1	396.1	396.1
17.5°	455.8	449.6	437.3	425.9	418.7	413.6	409.5	406.4	405.4	405.4	405.4
20°	486.6	476.4	458.9	443.4	432.1	424.9	418.7	415.7	414.6	413.6	412.6
22.5°	522.7	509.3	483.6	459.9	445.5	435.2	428.0	423.9	420.8	419.8	419.8
25°	563.8	544.3	510.3	481.5	462.0	447.6	438.3	433.1	428.0	425.9	425.9
27.5°	613.2	587.5	542.2	504.1	477.4	459.9	449.6	442.4	437.3	433.1	431.1
30°	666.7	637.9	577.2	528.8	494.9	475.3	463.0	454.8	447.6	440.3	439.3
32.5°	734.6	693.4	619.4	556.6	515.5	490.8	476.4	466.1	456.8	449.6	447.6
35°	803.5	754.2	663.6	585.4	535.0	505.2	487.7	476.4	467.1	458.9	457.8
37.5°	874.5	822.1	712.0	619.4	557.6	521.6	500.0	487.7	476.4	468.1	467.1
40°	948.6	886.9	761.4	654.4	581.3	538.1	513.4	498.0	485.6	478.4	477.4
42.5°	1018.6	951.7	814.9	695.5	609.1	555.6	526.8	510.3	494.9	487.7	486.6
45°	1085.4	1013.4	868.4	733.6	636.9	574.1	540.1	520.6	504.1	496.9	495.9
47.5°	1146.1	1074.1	917.7	774.7	665.7	594.7	554.6	530.9	512.4	505.2	505.2
50°	1200.7	1125.6	966.1	812.8	692.4	615.3	566.9	540.1	521.6	514.4	513.4
52.5°	1252.1	1170.8	1008.3	845.7	718.1	633.8	579.2	547.4	527.8	519.6	518.5
55°	1293.3	1212.0	1043.3	872.5	735.6	646.1	587.5	551.5	529.9	522.7	521.6
57.5°	1329.3	1245.9	1068.0	891.0	746.9	653.3	591.6	551.5	528.8	520.6	519.6
59°	1344.7	1260.3	1076.2	896.1	749.0	654.4	590.6	548.4	524.7	516.5	514.4
60°	1352.9	1266.5	1079.3	897.2	748.0	652.3	589.5	545.3	520.6	511.3	511.3
62.5°	1361.2	1271.7	1075.2	888.9	736.7	641.0	579.2	532.9	505.2	494.9	494.9
65°	1343.7	1253.1	1051.5	866.3	714.0	621.4	559.7	512.4	481.5	471.2	471.2
67.5°	1292.2	1207.9	1008.3	824.1	677.0	587.5	527.8	479.4	450.6	439.3	436.2
70°	1204.8	1133.8	940.4	763.4	626.6	544.3	487.7	441.4	411.5	400.2	396.1
72.5°	1087.5	1017.5	849.8	689.3	559.7	487.7	438.3	394.1	361.1	349.8	350.8
75°	926.0	876.6	732.5	595.7	482.5	415.7	374.5	337.5	309.7	300.4	301.5
77.5°	751.1	709.9	593.6	485.6	394.1	342.6	307.6	277.8	259.3	254.1	251.0
80°	575.1	535.0	445.5	362.2	299.4	263.4	239.7	219.1	204.7	197.5	199.6
82.5°	385.8	361.1	295.3	239.7	203.7	178.0	169.8	156.4	151.2	147.1	150.2
85°	207.8	186.2	154.3	128.6	112.1	104.9	107.0	106.0	101.9	100.8	103.9
87.5°	67.9	58.6	45.3	38.1	39.1	35.0	35.0	32.9	29.8	28.8	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)