

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: P472148

Luminaire Tested: **CCW-VA-2-730-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472148
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-730-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4254.4 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

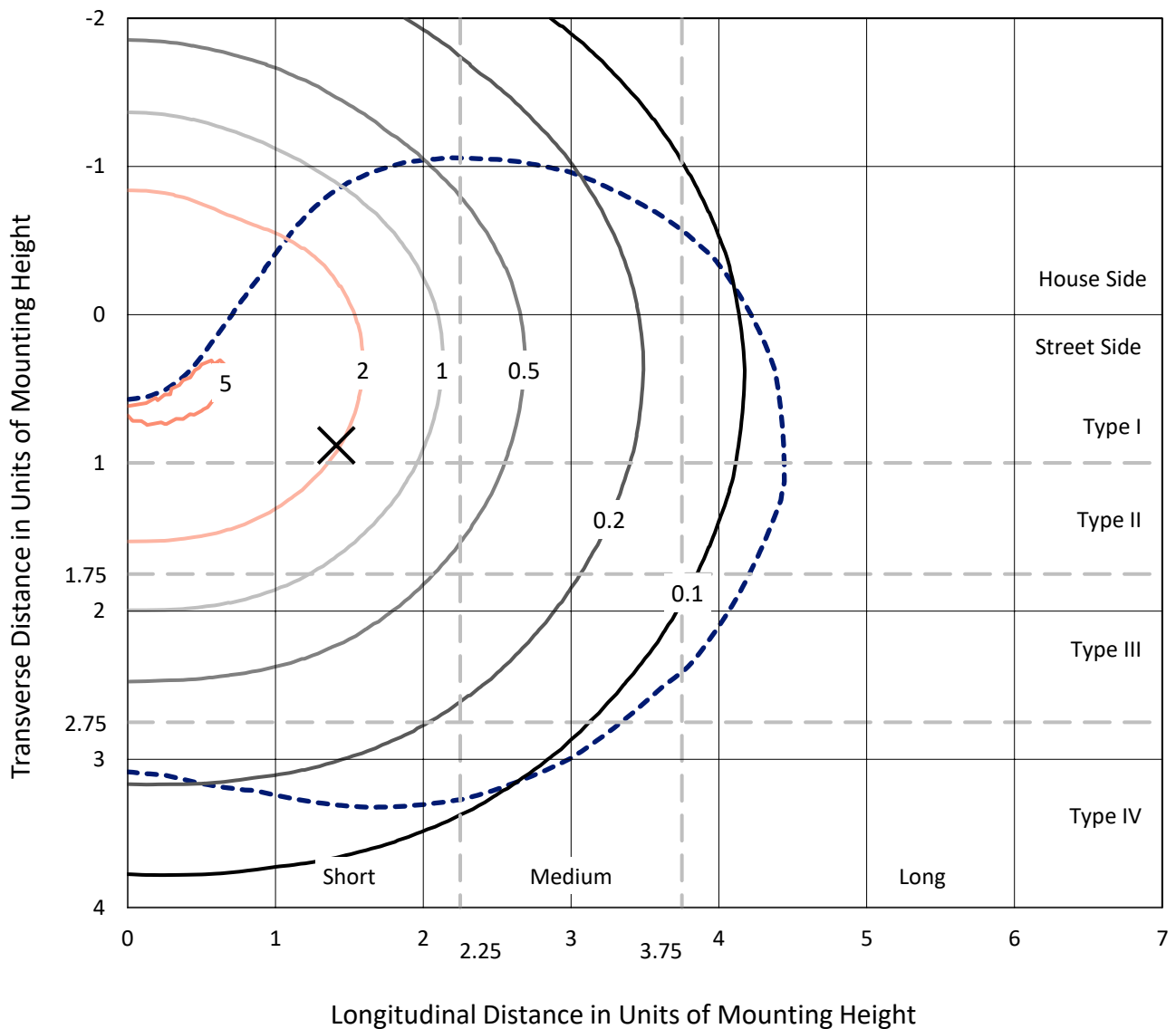
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472148
 CATALOG NUMBER: CCW-VA-2-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

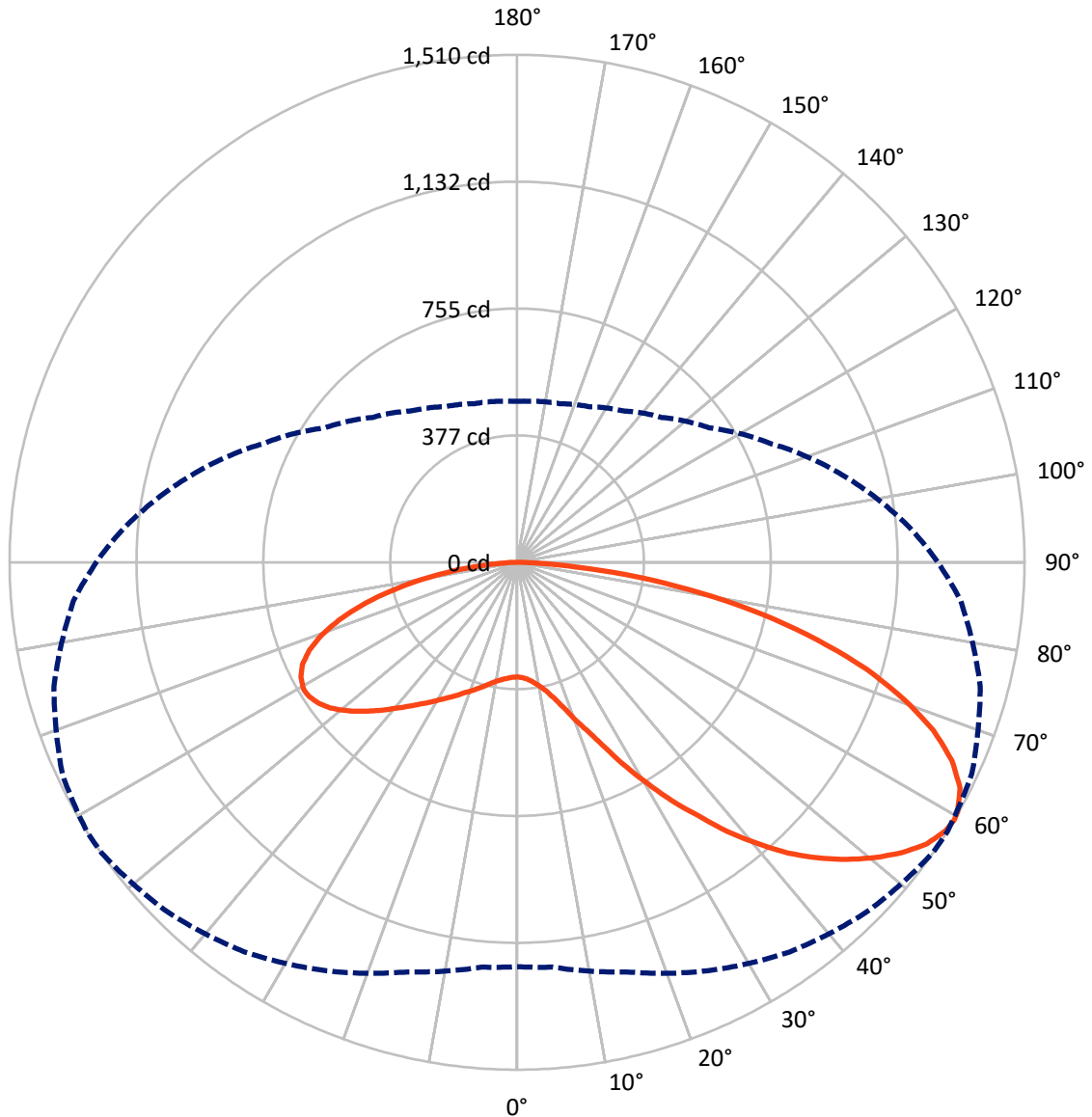
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P472148
CATALOG NUMBER: CCW-VA-2-730-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P472148
 CATALOG NUMBER: CCW-VA-2-730-U-T4W

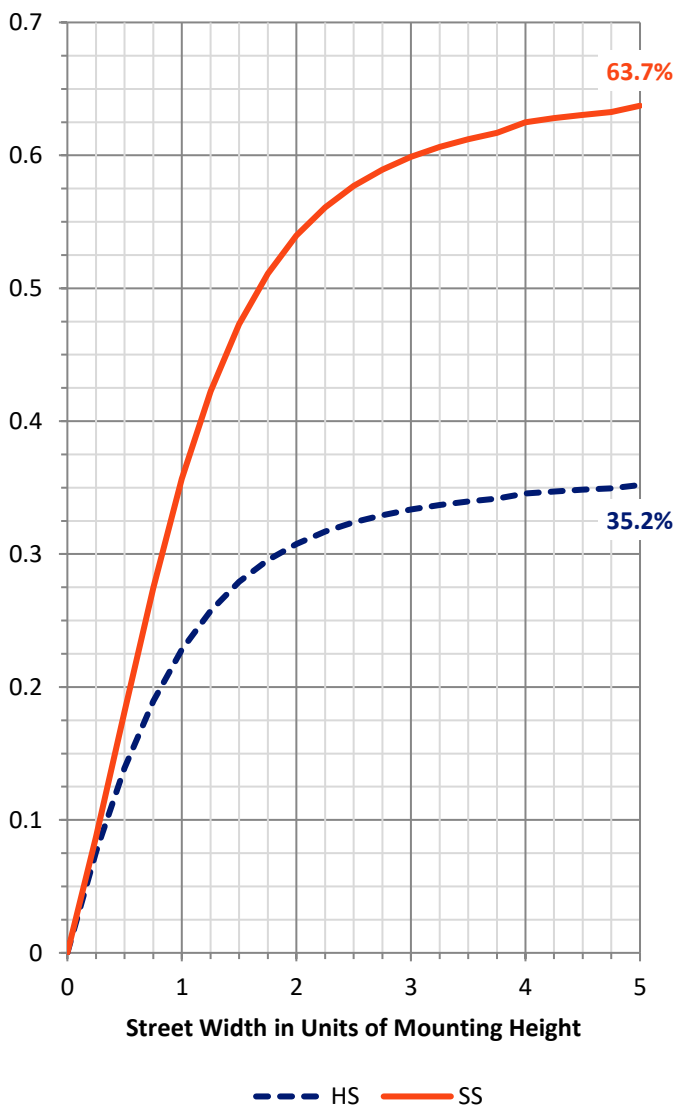
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.3	0.0	1517.3
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	2737.1	0.0	2737.1
	% Fixture	64.3	0.0	64.3
Total	Lumens	4254.4	0.0	4254.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	0.8
10°-20°	115.4	2.7
20°-30°	243.6	5.7
30°-40°	448.3	10.5
40°-50°	698.7	16.4
50°-60°	918.1	21.6
60°-70°	962.0	22.6
70°-80°	667.0	15.7
80°-90°	167.5	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°	4254.4	100.0
0°-180°	4254.4	100.0

Coefficient of Utilization



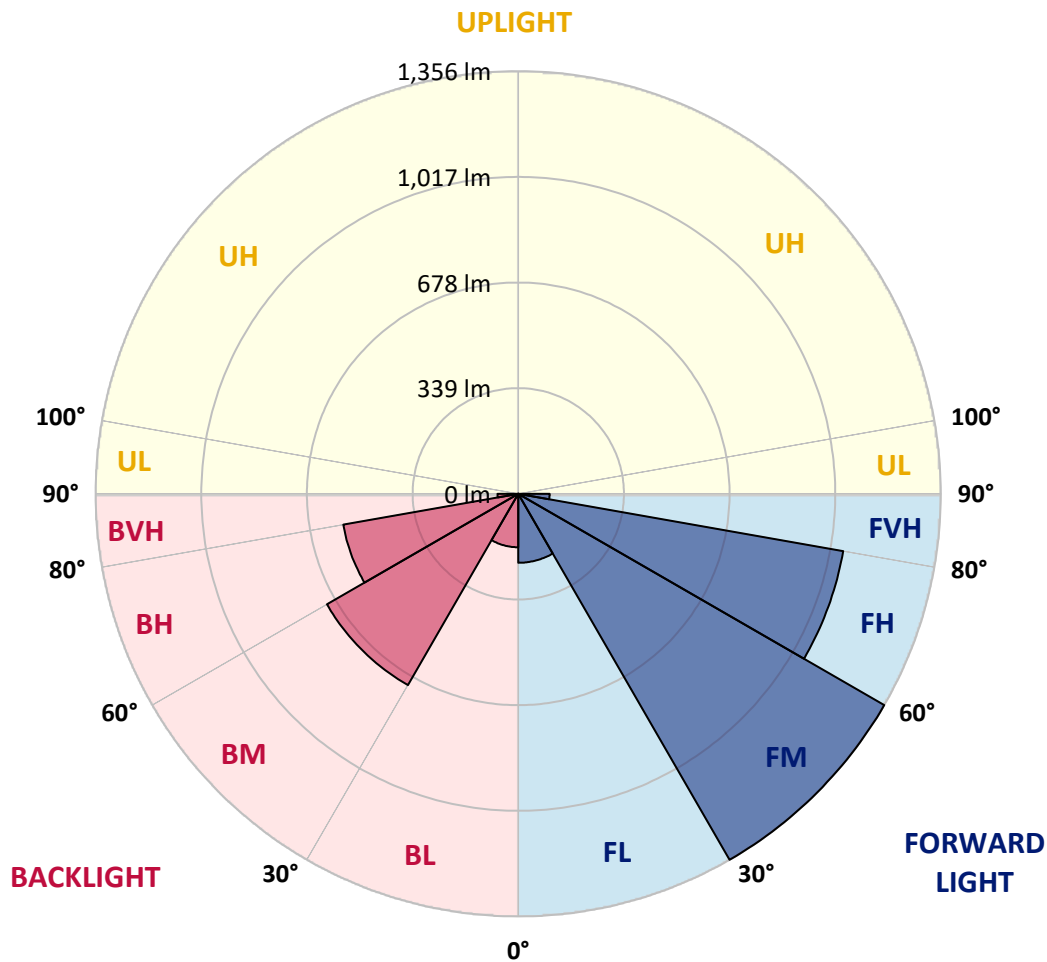
REPORT NUMBER: P472148
 CATALOG NUMBER: CCW-VA-2-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.3	5.2			
FM (30°-60°)	1356.2	31.9			
FH (60°-80°)	1058.9	24.9			G1/1800
FVH (80°-90°)	100.6	2.4			G2/225
BL (0°-30°)	171.5	4.0	B1/500		
BM (30°-60°)	708.9	16.7	B1/1000		
BH (60°-80°)	570.1	13.4	B2/1000		G2/1000
BVH (80°-90°)	66.8	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: P472148

CATALOG NUMBER: CCW-VA-2-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	345.8	345.8	345.8	344.9	344.9	344.9	343.9	343.9	343.9	343.0	342.0
5°	353.5	353.5	352.6	353.5	352.6	351.6	350.6	350.6	350.6	349.7	348.7
7.5°	364.1	365.0	364.1	365.0	364.1	363.1	361.2	361.2	360.2	358.3	356.4
10°	380.3	380.3	380.3	379.4	378.4	377.5	376.5	375.5	374.6	371.7	368.8
12.5°	400.5	400.5	400.5	398.5	398.5	396.6	395.7	394.7	392.8	389.0	385.1
15°	425.4	424.4	427.3	427.3	426.3	426.3	423.4	421.5	419.6	413.9	405.2
17.5°	458.9	457.9	460.8	462.7	462.7	463.7	458.9	457.0	450.3	442.6	431.1
20°	503.9	502.0	504.9	506.8	504.9	506.8	502.0	503.0	493.4	480.0	461.8
22.5°	552.8	552.8	555.7	555.7	556.6	558.5	552.8	549.9	542.2	523.1	500.1
25°	613.1	617.9	617.9	617.9	621.8	622.7	617.0	612.2	601.6	575.8	544.2
27.5°	686.9	685.9	685.0	690.7	690.7	692.7	688.8	686.9	674.5	642.8	594.9
30°	765.5	759.7	763.5	765.5	769.3	772.2	768.3	762.6	747.3	712.8	653.4
32.5°	837.3	841.1	846.9	848.8	854.6	855.5	845.9	845.9	830.6	786.5	725.2
35°	918.7	918.7	934.1	940.8	940.8	946.5	932.2	924.5	914.0	868.0	790.4
37.5°	989.6	991.6	1004.0	1019.3	1021.3	1029.9	1019.3	1016.5	997.3	950.4	864.1
40°	1055.7	1057.7	1073.0	1091.2	1101.7	1115.1	1104.6	1099.8	1079.7	1026.0	937.9
42.5°	1107.5	1111.3	1130.5	1157.3	1174.5	1190.8	1186.0	1183.2	1155.4	1098.9	1005.9
45°	1146.8	1153.5	1180.3	1211.9	1235.9	1259.8	1260.8	1255.0	1229.2	1165.9	1072.0
47.5°	1178.4	1186.0	1215.7	1256.0	1292.4	1322.1	1327.8	1321.1	1297.2	1231.1	1131.4
50°	1204.2	1208.1	1241.6	1293.3	1338.4	1375.7	1387.2	1381.5	1360.4	1285.7	1183.2
52.5°	1217.7	1223.4	1261.7	1321.1	1375.7	1420.8	1438.0	1435.1	1410.2	1335.5	1229.2
55°	1224.4	1230.1	1275.1	1343.2	1404.5	1457.2	1478.2	1479.2	1455.2	1380.5	1272.3
57.5°	1216.7	1224.4	1273.2	1348.9	1416.9	1473.4	1506.0	1505.1	1485.9	1415.0	1308.7
59°	1203.3	1209.0	1261.7	1341.2	1415.0	1471.5	1508.9	1509.9	1492.6	1426.5	1325.0
60°	1188.0	1194.7	1248.3	1331.7	1407.3	1464.8	1504.1	1506.0	1491.7	1429.4	1331.7
62.5°	1135.3	1143.9	1203.3	1292.4	1374.8	1429.4	1476.3	1479.2	1471.5	1421.7	1336.4
65°	1061.5	1069.2	1133.3	1228.2	1314.4	1370.9	1415.0	1421.7	1420.8	1387.2	1317.3
67.5°	971.4	972.4	1032.8	1136.2	1226.3	1281.8	1324.0	1335.5	1344.1	1322.1	1260.8
70°	863.2	862.2	920.7	1023.2	1113.2	1171.7	1213.8	1221.5	1243.5	1226.3	1176.5
72.5°	729.1	740.6	795.2	881.4	970.5	1035.6	1073.0	1087.4	1099.8	1103.6	1062.5
75°	602.6	615.1	658.2	738.6	815.3	875.6	915.9	922.6	945.6	951.3	913.0
77.5°	481.9	482.8	514.5	578.6	648.6	698.4	731.0	748.2	760.7	772.2	731.9
80°	338.2	343.0	365.0	411.0	465.6	518.3	545.1	556.6	565.2	572.9	559.5
82.5°	211.7	213.6	228.0	255.8	293.2	322.9	350.6	360.2	362.1	379.4	377.5
85°	100.6	101.6	111.1	124.5	140.8	164.8	175.3	175.3	188.7	201.2	201.2
87.5°	13.4	13.4	16.3	18.2	23.0	29.7	41.2	42.2	49.8	55.6	60.4
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: P472148
 CATALOG NUMBER: CCW-VA-2-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	342.0	342.0	342.0	342.0	342.0	341.1	342.0	342.0	342.0	342.0	342.0
5°	348.7	347.8	346.8	345.8	345.8	344.9	344.9	344.9	344.9	344.9	344.9
7.5°	355.4	354.5	353.5	351.6	350.6	349.7	349.7	348.7	348.7	348.7	348.7
10°	366.9	366.0	362.1	359.3	357.3	356.4	355.4	354.5	353.5	353.5	353.5
12.5°	382.3	380.3	373.6	369.8	366.9	365.0	363.1	362.1	361.2	360.2	360.2
15°	401.4	396.6	388.0	382.3	378.4	375.5	372.7	370.8	369.8	368.8	368.8
17.5°	424.4	418.7	407.2	396.6	389.9	385.1	381.3	378.4	377.5	377.5	377.5
20°	453.1	443.6	427.3	412.9	402.4	395.7	389.9	387.0	386.1	385.1	384.2
22.5°	486.7	474.2	450.3	428.2	414.8	405.2	398.5	394.7	391.8	390.9	390.9
25°	525.0	506.8	475.2	448.4	430.2	416.7	408.1	403.3	398.5	396.6	396.6
27.5°	571.0	547.0	504.9	469.4	444.5	428.2	418.7	412.0	407.2	403.3	401.4
30°	620.8	594.0	537.5	492.4	460.8	442.6	431.1	423.4	416.7	410.0	409.1
32.5°	684.0	645.7	576.7	518.3	480.0	457.0	443.6	434.0	425.4	418.7	416.7
35°	748.2	702.2	617.9	545.1	498.2	470.4	454.1	443.6	434.9	427.3	426.3
37.5°	814.3	765.5	663.0	576.7	519.3	485.7	465.6	454.1	443.6	435.9	434.9
40°	883.3	825.8	708.9	609.3	541.3	501.0	478.1	463.7	452.2	445.5	444.5
42.5°	948.4	886.2	758.8	647.6	567.2	517.3	490.5	475.2	460.8	454.1	453.1
45°	1010.7	943.7	808.6	683.1	593.0	534.6	503.0	484.8	469.4	462.7	461.8
47.5°	1067.2	1000.2	854.6	721.4	619.8	553.7	516.4	494.3	477.1	470.4	470.4
50°	1118.0	1048.1	899.6	756.8	644.8	572.9	527.9	503.0	485.7	479.0	478.1
52.5°	1165.9	1090.2	938.9	787.5	668.7	590.1	539.4	509.7	491.5	483.8	482.8
55°	1204.2	1128.6	971.4	812.4	685.0	601.6	547.0	513.5	493.4	486.7	485.7
57.5°	1237.8	1160.2	994.4	829.7	695.5	608.3	550.9	513.5	492.4	484.8	483.8
59°	1252.1	1173.6	1002.1	834.4	697.4	609.3	549.9	510.6	488.6	480.9	479.0
60°	1259.8	1179.3	1005.0	835.4	696.5	607.4	549.0	507.8	484.8	476.1	476.1
62.5°	1267.5	1184.1	1001.1	827.7	685.9	596.9	539.4	496.3	470.4	460.8	460.8
65°	1251.2	1166.9	979.1	806.7	664.9	578.6	521.2	477.1	448.4	438.8	438.8
67.5°	1203.3	1124.7	938.9	767.4	630.4	547.0	491.5	446.4	419.6	409.1	406.2
70°	1121.9	1055.7	875.6	710.9	583.4	506.8	454.1	411.0	383.2	372.7	368.8
72.5°	1012.6	947.5	791.3	641.9	521.2	454.1	408.1	366.9	336.3	325.7	326.7
75°	862.2	816.2	682.1	554.7	449.3	387.0	348.7	314.2	288.4	279.7	280.7
77.5°	699.4	661.0	552.8	452.2	366.9	319.0	286.5	258.7	241.4	236.6	233.8
80°	535.5	498.2	414.8	337.2	278.8	245.3	223.2	204.1	190.6	183.9	185.9
82.5°	359.3	336.3	275.0	223.2	189.7	165.7	158.1	145.6	140.8	137.0	139.9
85°	193.5	173.4	143.7	119.8	104.4	97.7	99.6	98.7	94.8	93.9	96.8
87.5°	63.2	54.6	42.2	35.4	36.4	32.6	32.6	30.7	27.8	26.8	28.7
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)