

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: P472142

Luminaire Tested: **CCW-VA-2-727-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472142
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-727-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

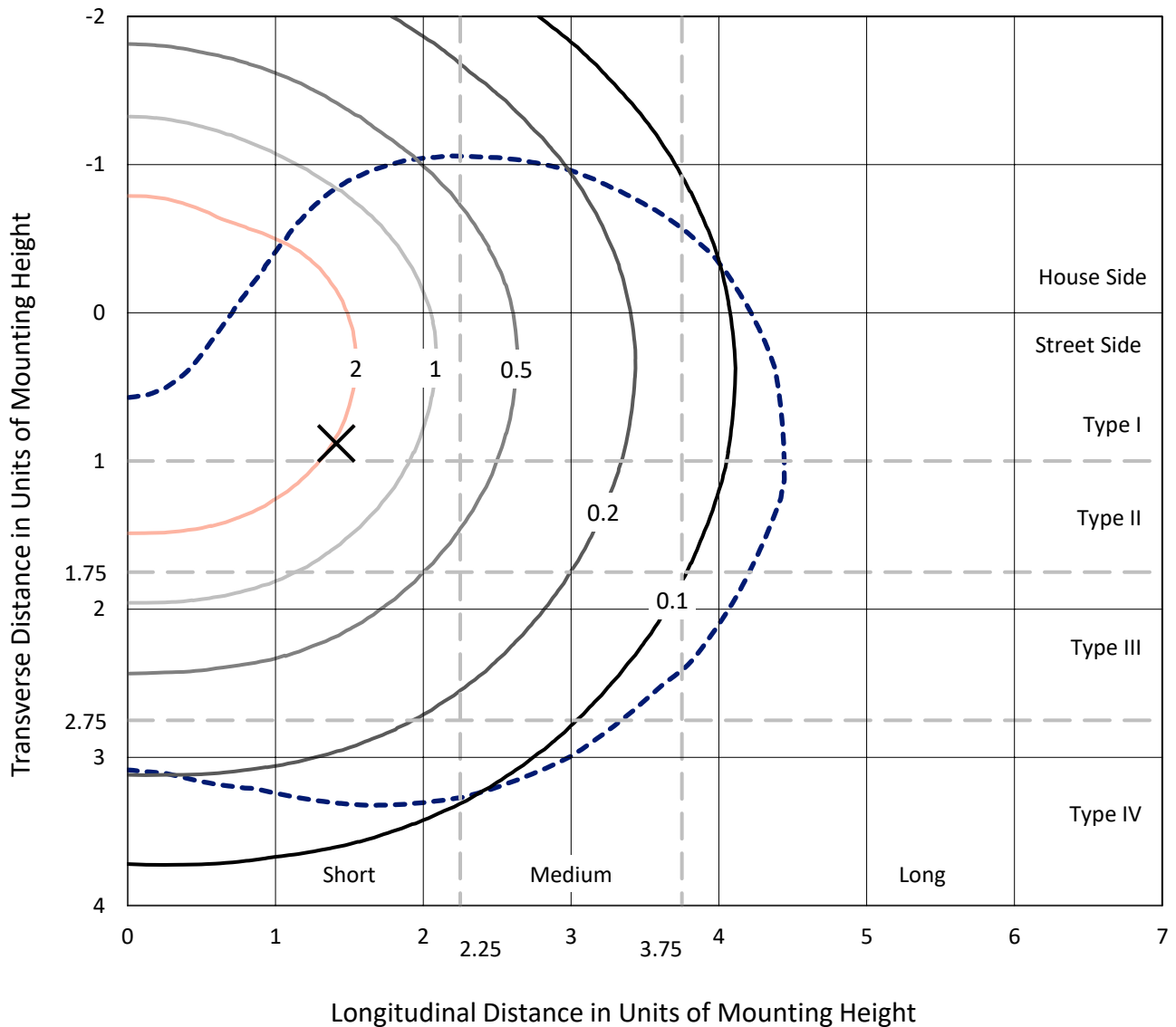
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

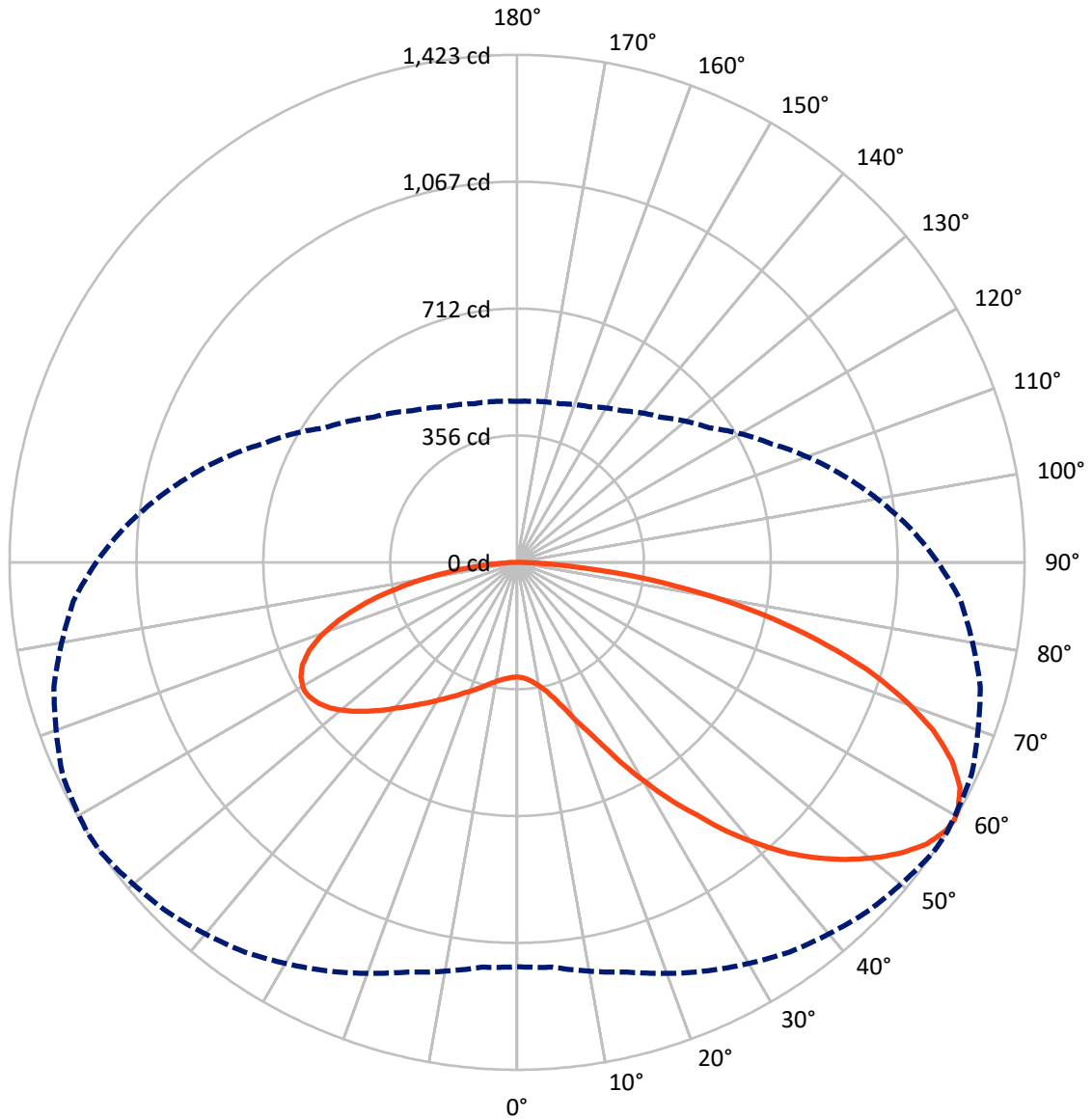
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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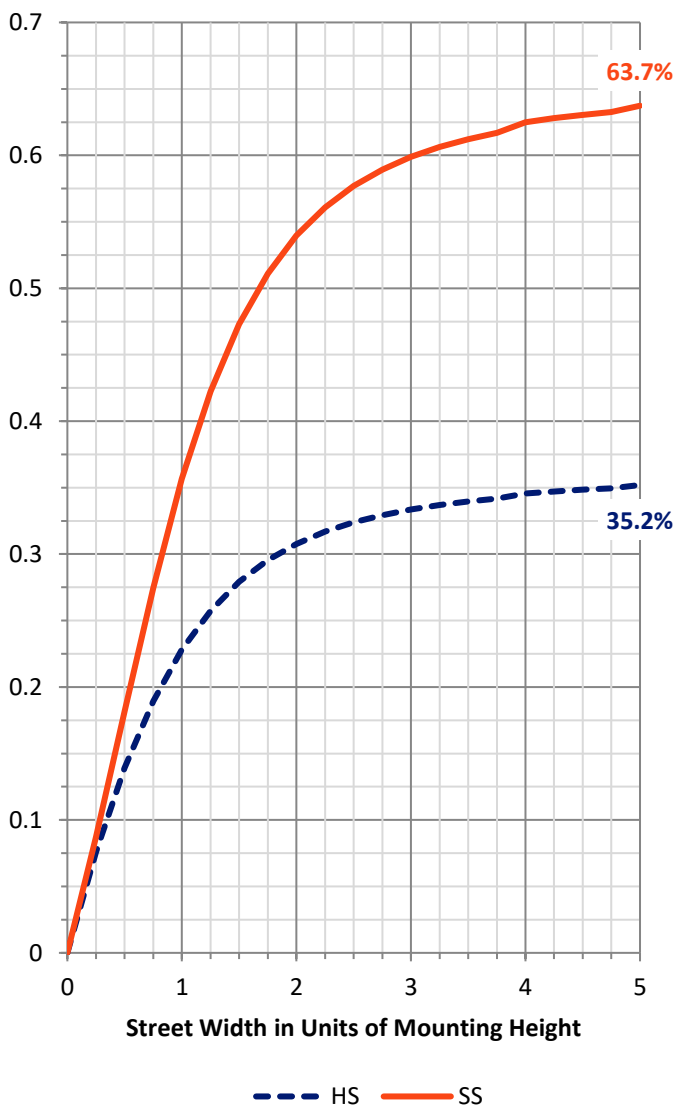
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.3	0.0	1430.3
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	2580.2	0.0	2580.2
	% Fixture	64.3	0.0	64.3
Total	Lumens	4010.5	0.0	4010.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.8
10°-20°	108.8	2.7
20°-30°	229.6	5.7
30°-40°	422.6	10.5
40°-50°	658.6	16.4
50°-60°	865.5	21.6
60°-70°	906.9	22.6
70°-80°	628.8	15.7
80°-90°	157.9	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°	4010.5	100.0
0°-180°	4010.5	100.0

Coefficient of Utilization

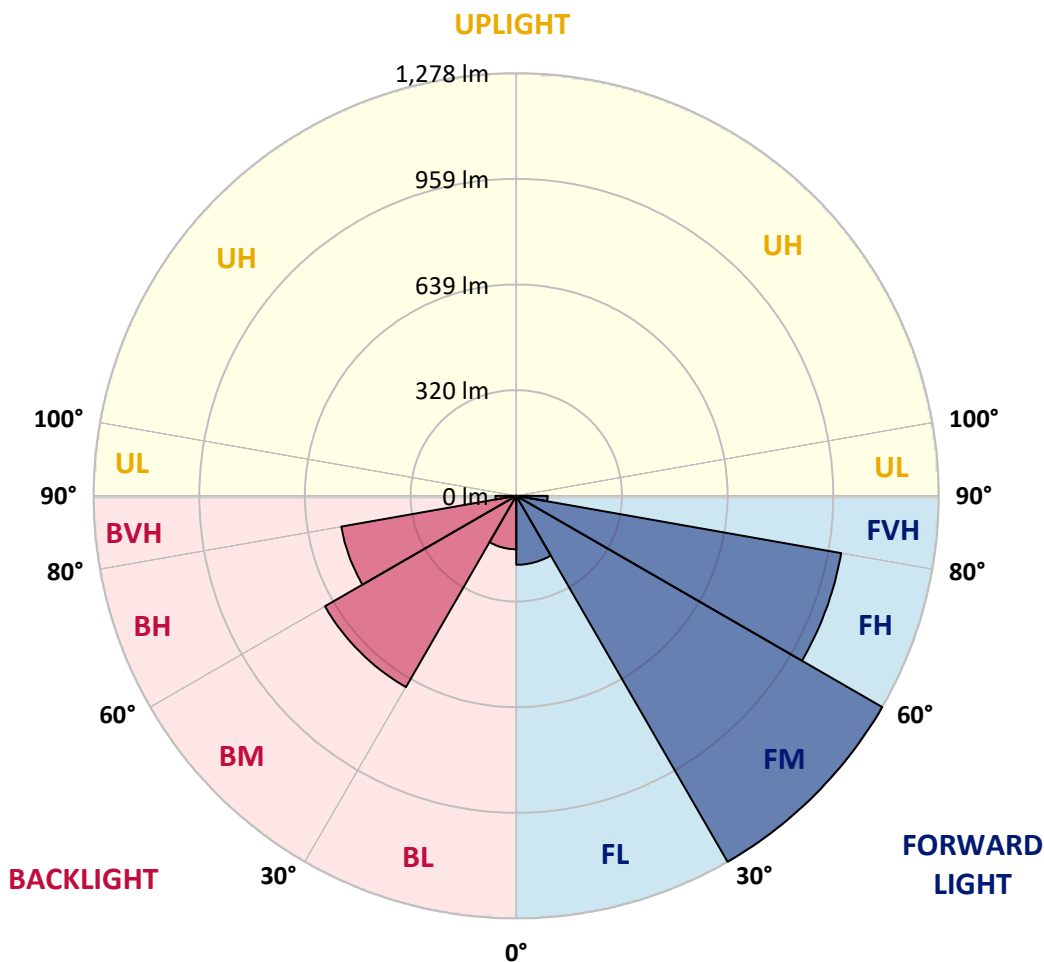


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.6	5.2			
FM (30°-60°)	1278.5	31.9			
FH (60°-80°)	998.2	24.9			G1/1800
FVH (80°-90°)	94.9	2.4			G1/100
BL (0°-30°)	161.7	4.0	B1/500		
BM (30°-60°)	668.2	16.7	B1/1000		
BH (60°-80°)	537.4	13.4	B2/1000		G2/1000
BVH (80°-90°)	63.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5
2.5°	326.0	326.0	326.0	325.1	325.1	325.1	324.2	324.2	324.2	323.3	322.4
5°	333.2	333.2	332.3	333.2	332.3	331.4	330.5	330.5	330.5	329.6	328.7
7.5°	343.2	344.1	343.2	344.1	343.2	342.3	340.5	340.5	339.6	337.8	336.0
10°	358.5	358.5	358.5	357.6	356.7	355.8	354.9	354.0	353.1	350.4	347.7
12.5°	377.5	377.5	377.5	375.7	375.7	373.9	373.0	372.1	370.3	366.7	363.0
15°	401.0	400.1	402.8	402.8	401.9	401.9	399.2	397.4	395.6	390.1	382.0
17.5°	432.6	431.7	434.4	436.2	436.2	437.1	432.6	430.8	424.5	417.2	406.4
20°	475.0	473.2	475.9	477.7	475.9	477.7	473.2	474.1	465.1	452.4	435.3
22.5°	521.1	521.1	523.8	523.8	524.7	526.5	521.1	518.4	511.2	493.1	471.4
25°	578.0	582.5	582.5	582.5	586.1	587.0	581.6	577.1	567.1	542.8	513.0
27.5°	647.5	646.6	645.7	651.1	651.1	652.9	649.3	647.5	635.8	606.0	560.8
30°	721.6	716.2	719.8	721.6	725.2	727.9	724.3	718.9	704.4	671.9	615.9
32.5°	789.3	792.9	798.3	800.1	805.6	806.5	797.4	797.4	783.0	741.4	683.6
35°	866.1	866.1	880.5	886.8	886.8	892.3	878.7	871.5	861.5	818.2	745.1
37.5°	932.9	934.7	946.4	960.9	962.7	970.8	960.9	958.2	940.1	895.9	814.6
40°	995.2	997.0	1011.5	1028.6	1038.6	1051.2	1041.3	1036.7	1017.8	967.2	884.1
42.5°	1044.0	1047.6	1065.6	1090.9	1107.2	1122.5	1118.0	1115.3	1089.1	1035.8	948.2
45°	1081.0	1087.3	1112.6	1142.4	1165.0	1187.6	1188.5	1183.1	1158.7	1099.1	1010.6
47.5°	1110.8	1118.0	1146.0	1184.0	1218.3	1246.3	1251.7	1245.4	1222.8	1160.5	1066.6
50°	1135.2	1138.8	1170.4	1219.2	1261.6	1296.8	1307.7	1302.3	1282.4	1211.9	1115.3
52.5°	1147.8	1153.2	1189.4	1245.4	1296.8	1339.3	1355.5	1352.8	1329.4	1258.9	1158.7
55°	1154.2	1159.6	1202.0	1266.1	1323.9	1373.6	1393.5	1394.4	1371.8	1301.4	1199.3
57.5°	1146.9	1154.2	1200.2	1271.6	1335.7	1389.0	1419.7	1418.8	1400.7	1333.9	1233.6
59°	1134.3	1139.7	1189.4	1264.3	1333.9	1387.1	1422.4	1423.3	1407.0	1344.7	1249.0
60°	1119.8	1126.2	1176.7	1255.3	1326.6	1380.8	1417.9	1419.7	1406.1	1347.4	1255.3
62.5°	1070.2	1078.3	1134.3	1218.3	1295.9	1347.4	1391.7	1394.4	1387.1	1340.2	1259.8
65°	1000.6	1007.9	1068.4	1157.8	1239.0	1292.3	1333.9	1340.2	1339.3	1307.7	1241.8
67.5°	915.7	916.6	973.5	1071.1	1156.0	1208.3	1248.1	1258.9	1267.0	1246.3	1188.5
70°	813.7	812.8	867.9	964.5	1049.4	1104.5	1144.2	1151.4	1172.2	1156.0	1109.0
72.5°	687.3	698.1	749.6	830.8	914.8	976.2	1011.5	1025.0	1036.7	1040.4	1001.5
75°	568.0	579.8	620.4	696.3	768.5	825.4	863.4	869.7	891.4	896.8	860.6
77.5°	454.3	455.2	485.0	545.5	611.4	658.4	689.1	705.3	717.1	727.9	690.0
80°	318.8	323.3	344.1	387.4	438.9	488.6	513.9	524.7	532.8	540.0	527.4
82.5°	199.6	201.4	214.9	241.1	276.3	304.3	330.5	339.6	341.4	357.6	355.8
85°	94.8	95.7	104.8	117.4	132.8	155.3	165.3	165.3	177.9	189.6	189.6
87.5°	12.6	12.6	15.4	17.2	21.7	28.0	38.8	39.7	47.0	52.4	56.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5	321.5
2.5°	322.4	322.4	322.4	322.4	322.4	321.5	322.4	322.4	322.4	322.4	322.4
5°	328.7	327.8	326.9	326.0	326.0	325.1	325.1	325.1	325.1	325.1	325.1
7.5°	335.0	334.1	333.2	331.4	330.5	329.6	329.6	328.7	328.7	328.7	328.7
10°	345.9	345.0	341.4	338.7	336.9	336.0	335.0	334.1	333.2	333.2	333.2
12.5°	360.3	358.5	352.2	348.6	345.9	344.1	342.3	341.4	340.5	339.6	339.6
15°	378.4	373.9	365.8	360.3	356.7	354.0	351.3	349.5	348.6	347.7	347.7
17.5°	400.1	394.7	383.8	373.9	367.6	363.0	359.4	356.7	355.8	355.8	355.8
20°	427.2	418.1	402.8	389.2	379.3	373.0	367.6	364.8	363.9	363.0	362.1
22.5°	458.8	447.0	424.5	403.7	391.0	382.0	375.7	372.1	369.4	368.5	368.5
25°	494.9	477.7	447.9	422.6	405.5	392.8	384.7	380.2	375.7	373.9	373.9
27.5°	538.2	515.7	475.9	442.5	419.0	403.7	394.7	388.3	383.8	380.2	378.4
30°	585.2	559.9	506.6	464.2	434.4	417.2	406.4	399.2	392.8	386.5	385.6
32.5°	644.8	608.7	543.7	488.6	452.4	430.8	418.1	409.1	401.0	394.7	392.8
35°	705.3	662.0	582.5	513.9	469.6	443.4	428.1	418.1	410.0	402.8	401.9
37.5°	767.6	721.6	624.9	543.7	489.5	457.9	438.9	428.1	418.1	410.9	410.0
40°	832.7	778.5	668.3	574.4	510.2	472.3	450.6	437.1	426.3	419.9	419.0
42.5°	894.1	835.4	715.2	610.5	534.6	487.7	462.4	447.9	434.4	428.1	427.2
45°	952.8	889.5	762.2	643.9	559.0	503.9	474.1	457.0	442.5	436.2	435.3
47.5°	1006.0	942.8	805.6	680.0	584.3	522.0	486.8	466.0	449.7	443.4	443.4
50°	1053.9	988.0	848.0	713.4	607.8	540.0	497.6	474.1	457.9	451.5	450.6
52.5°	1099.1	1027.7	885.0	742.3	630.4	556.3	508.4	480.4	463.3	456.1	455.2
55°	1135.2	1063.8	915.7	765.8	645.7	567.1	515.7	484.1	465.1	458.8	457.9
57.5°	1166.8	1093.6	937.4	782.1	655.6	573.5	519.3	484.1	464.2	457.0	456.1
59°	1180.3	1106.3	944.6	786.6	657.5	574.4	518.4	481.3	460.6	453.4	451.5
60°	1187.6	1111.7	947.3	787.5	656.5	572.6	517.5	478.6	457.0	448.8	448.8
62.5°	1194.8	1116.2	943.7	780.3	646.6	562.6	508.4	467.8	443.4	434.4	434.4
65°	1179.4	1100.0	923.0	760.4	626.7	545.5	491.3	449.7	422.6	413.6	413.6
67.5°	1134.3	1060.2	885.0	723.4	594.2	515.7	463.3	420.8	395.6	385.6	382.9
70°	1057.5	995.2	825.4	670.1	550.0	477.7	428.1	387.4	361.2	351.3	347.7
72.5°	954.6	893.2	746.0	605.1	491.3	428.1	384.7	345.9	317.0	307.1	308.0
75°	812.8	769.4	643.0	522.9	423.6	364.8	328.7	296.2	271.8	263.7	264.6
77.5°	659.3	623.1	521.1	426.3	345.9	300.7	270.0	243.8	227.6	223.1	220.4
80°	504.8	469.6	391.0	317.9	262.8	231.2	210.4	192.4	179.7	173.4	175.2
82.5°	338.7	317.0	259.2	210.4	178.8	156.2	149.0	137.3	132.8	129.1	131.9
85°	182.4	163.5	135.5	112.9	98.4	92.1	93.9	93.0	89.4	88.5	91.2
87.5°	59.6	51.5	39.7	33.4	34.3	30.7	30.7	28.9	26.2	25.3	27.1
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)