

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: P472190

Luminaire Tested: **CCW-VA-2-835-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472190
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-835-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4063.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

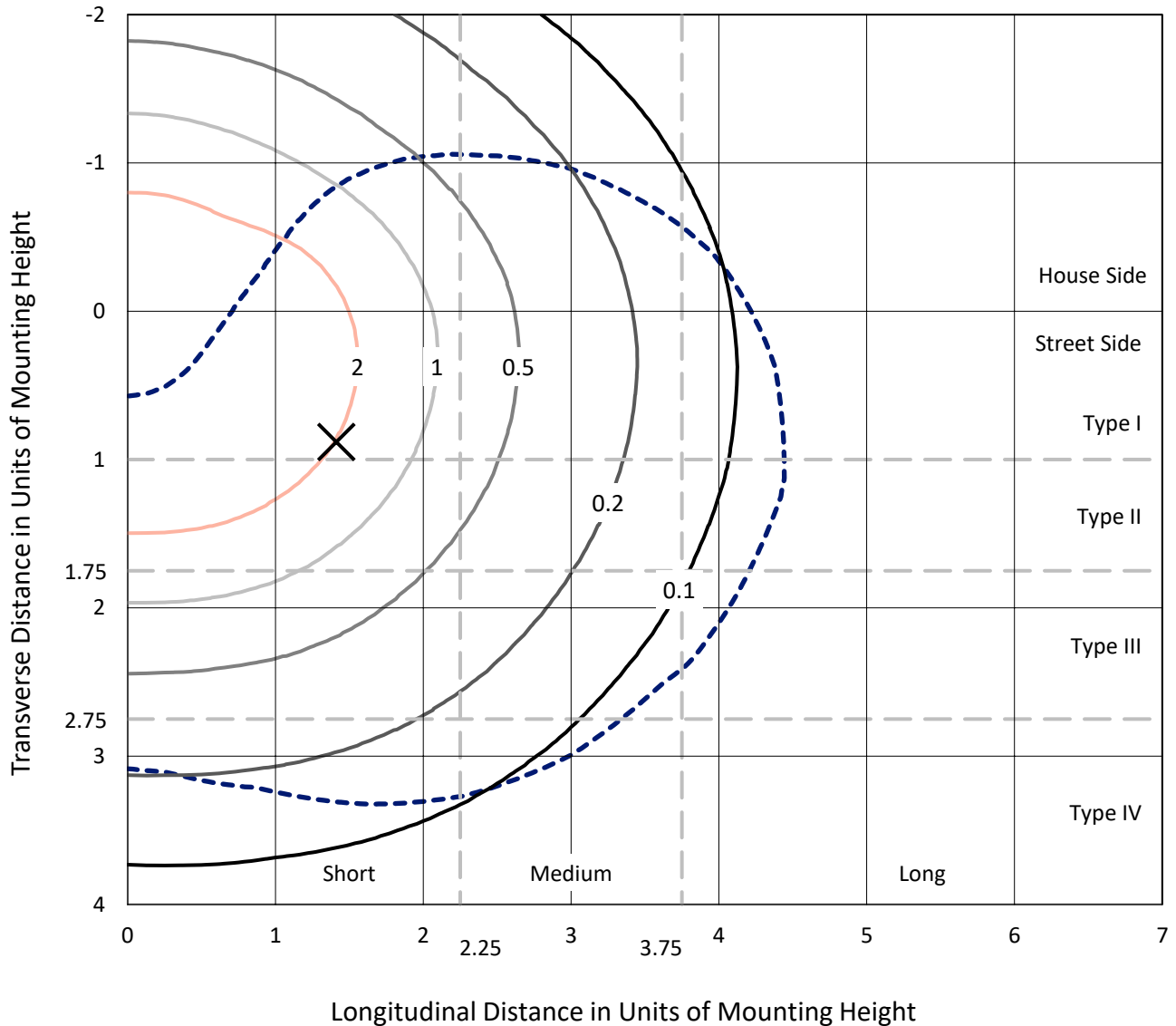
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

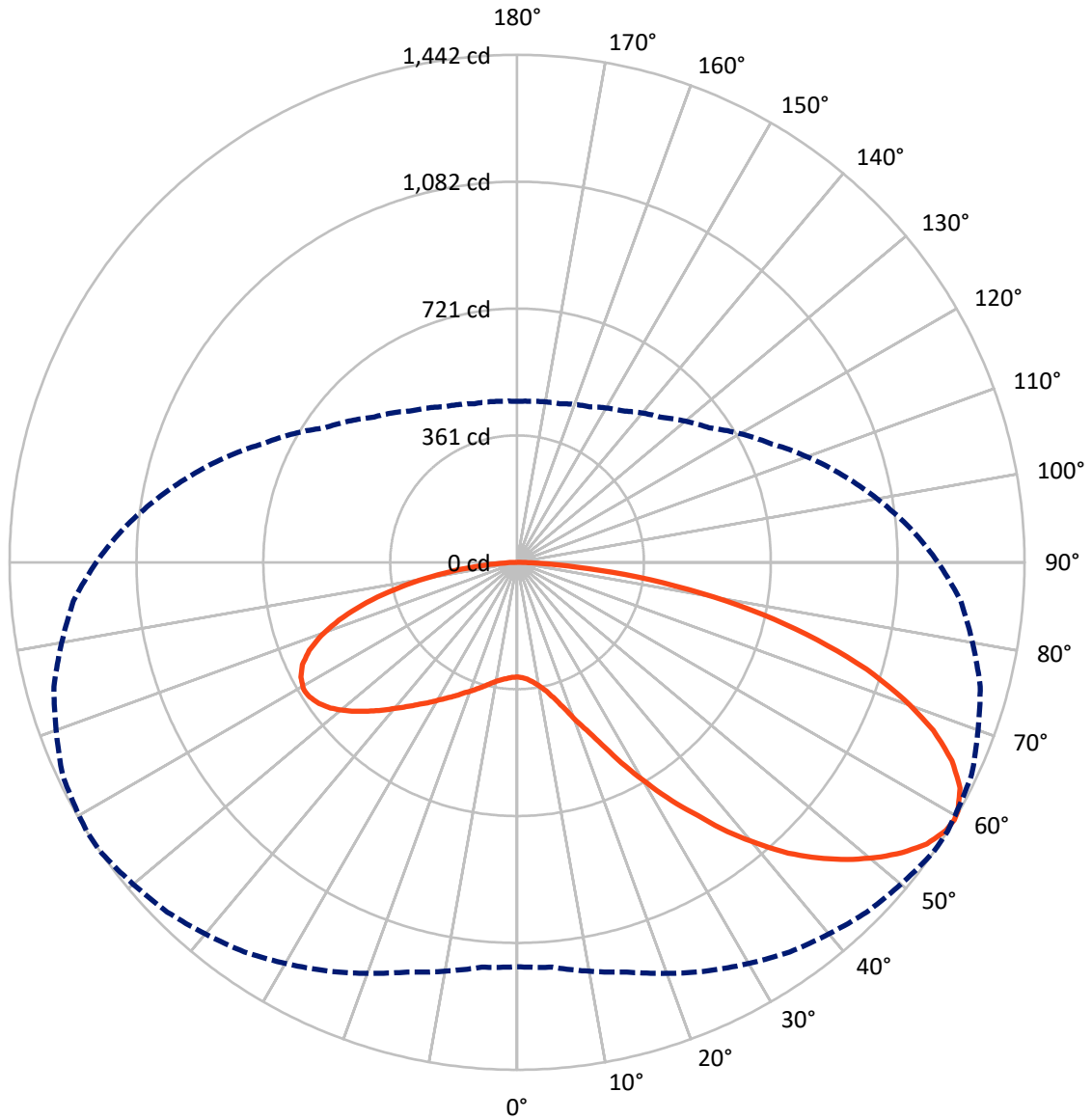
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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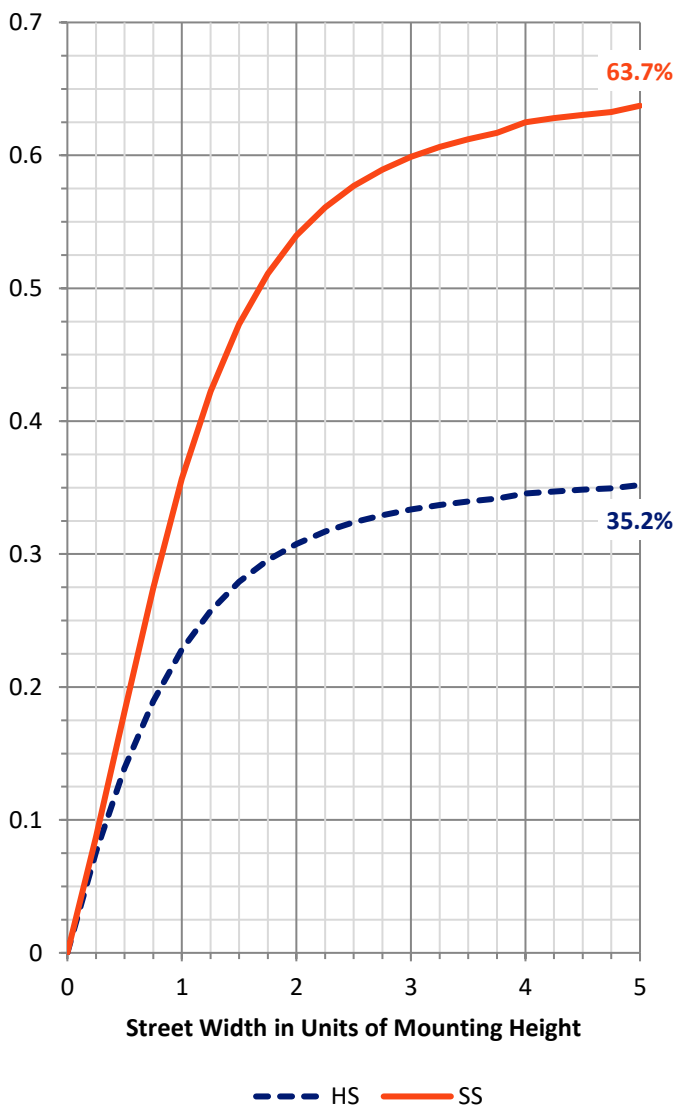
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.2	0.0	1449.2
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	2614.3	0.0	2614.3
	% Fixture	64.3	0.0	64.3
Total	Lumens	4063.6	0.0	4063.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.8
10°-20°	110.2	2.7
20°-30°	232.6	5.7
30°-40°	428.2	10.5
40°-50°	667.4	16.4
50°-60°	876.9	21.6
60°-70°	918.9	22.6
70°-80°	637.1	15.7
80°-90°	160.0	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°	4063.6	100.0
0°-180°	4063.6	100.0

Coefficient of Utilization



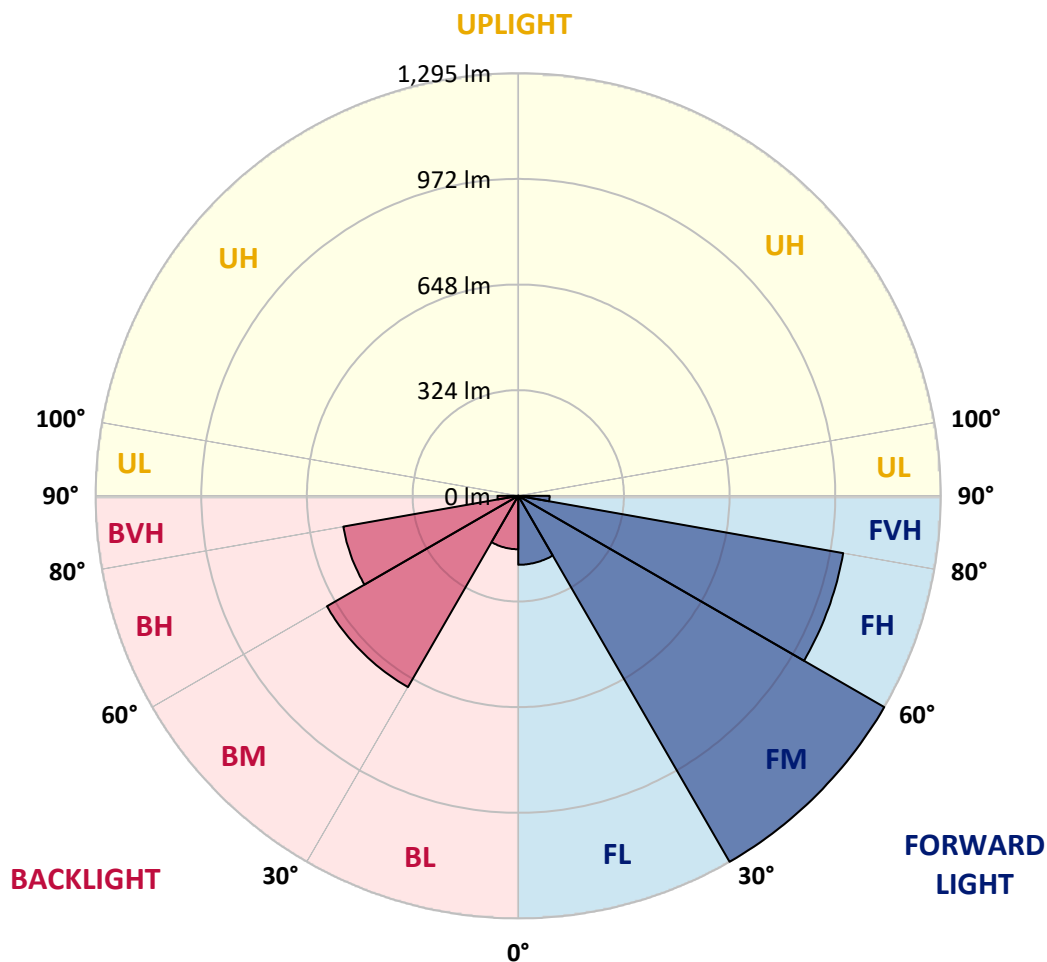
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.4	5.2			
FM (30°-60°)	1295.4	31.9			
FH (60°-80°)	1011.4	24.9			G1/1800
FVH (80°-90°)	96.1	2.4			G1/100
BL (0°-30°)	163.8	4.0	B1/500		
BM (30°-60°)	677.1	16.7	B1/1000		
BH (60°-80°)	544.5	13.4	B2/1000		G2/1000
BVH (80°-90°)	63.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
2.5°	330.3	330.3	330.3	329.4	329.4	329.4	328.5	328.5	328.5	327.6	326.7
5°	337.7	337.7	336.7	337.7	336.7	335.8	334.9	334.9	334.9	334.0	333.1
7.5°	347.7	348.6	347.7	348.6	347.7	346.8	345.0	345.0	344.1	342.2	340.4
10°	363.3	363.3	363.3	362.4	361.4	360.5	359.6	358.7	357.8	355.0	352.3
12.5°	382.5	382.5	382.5	380.7	380.7	378.8	377.9	377.0	375.2	371.5	367.8
15°	406.3	405.4	408.1	408.1	407.2	407.2	404.5	402.6	400.8	395.3	387.1
17.5°	438.3	437.4	440.1	442.0	442.0	442.9	438.3	436.5	430.1	422.8	411.8
20°	481.3	479.5	482.2	484.1	482.2	484.1	479.5	480.4	471.2	458.4	441.1
22.5°	528.0	528.0	530.7	530.7	531.6	533.5	528.0	525.2	517.9	499.6	477.7
25°	585.6	590.2	590.2	590.2	593.9	594.8	589.3	584.7	574.6	549.9	519.7
27.5°	656.1	655.2	654.3	659.7	659.7	661.6	657.9	656.1	644.2	614.0	568.2
30°	731.1	725.6	729.3	731.1	734.8	737.5	733.9	728.4	713.7	680.8	624.1
32.5°	799.8	803.4	808.9	810.7	816.2	817.1	808.0	808.0	793.3	751.3	692.7
35°	877.5	877.5	892.2	898.6	898.6	904.1	890.3	883.0	873.0	829.0	754.9
37.5°	945.2	947.1	959.0	973.6	975.4	983.7	973.6	970.9	952.6	907.7	825.4
40°	1008.4	1010.2	1024.9	1042.2	1052.3	1065.1	1055.0	1050.5	1031.3	980.0	895.8
42.5°	1057.8	1061.5	1079.8	1105.4	1121.8	1137.4	1132.8	1130.1	1103.5	1049.6	960.8
45°	1095.3	1101.7	1127.3	1157.5	1180.4	1203.3	1204.2	1198.7	1174.0	1113.6	1023.9
47.5°	1125.5	1132.8	1161.2	1199.6	1234.4	1262.8	1268.3	1261.9	1239.0	1175.8	1080.7
50°	1150.2	1153.9	1185.9	1235.3	1278.3	1314.0	1325.0	1319.5	1299.4	1228.0	1130.1
52.5°	1163.0	1168.5	1205.1	1261.9	1314.0	1357.0	1373.5	1370.7	1347.0	1275.6	1174.0
55°	1169.4	1174.9	1217.9	1282.9	1341.5	1391.8	1411.9	1412.8	1390.0	1318.6	1215.2
57.5°	1162.1	1169.4	1216.1	1288.4	1353.4	1407.3	1438.5	1437.5	1419.2	1351.5	1250.0
59°	1149.3	1154.8	1205.1	1281.1	1351.5	1405.5	1441.2	1442.1	1425.6	1362.5	1265.5
60°	1134.7	1141.1	1192.3	1271.9	1344.2	1399.1	1436.6	1438.5	1424.7	1365.3	1271.9
62.5°	1084.3	1092.6	1149.3	1234.4	1313.1	1365.3	1410.1	1412.8	1405.5	1357.9	1276.5
65°	1013.9	1021.2	1082.5	1173.1	1255.4	1309.4	1351.5	1357.9	1357.0	1325.0	1258.2
67.5°	927.9	928.8	986.4	1085.2	1171.3	1224.3	1264.6	1275.6	1283.8	1262.8	1204.2
70°	824.5	823.5	879.4	977.3	1063.3	1119.1	1159.4	1166.7	1187.7	1171.3	1123.7
72.5°	696.4	707.3	759.5	841.8	926.9	989.2	1024.9	1038.6	1050.5	1054.1	1014.8
75°	575.6	587.5	628.6	705.5	778.7	836.4	874.8	881.2	903.2	908.6	872.0
77.5°	460.3	461.2	491.4	552.7	619.5	667.1	698.2	714.7	726.5	737.5	699.1
80°	323.0	327.6	348.6	392.6	444.7	495.0	520.7	531.6	539.9	547.2	534.4
82.5°	202.2	204.1	217.8	244.3	280.0	308.4	334.9	344.1	345.9	362.4	360.5
85°	96.1	97.0	106.1	119.0	134.5	157.4	167.5	167.5	180.3	192.2	192.2
87.5°	12.8	12.8	15.6	17.4	22.0	28.4	39.3	40.3	47.6	53.1	57.6
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°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
2.5°	326.7	326.7	326.7	326.7	326.7	325.8	326.7	326.7	326.7	326.7	326.7
5°	333.1	332.2	331.2	330.3	330.3	329.4	329.4	329.4	329.4	329.4	329.4
7.5°	339.5	338.6	337.7	335.8	334.9	334.0	334.0	333.1	333.1	333.1	333.1
10°	350.5	349.5	345.9	343.1	341.3	340.4	339.5	338.6	337.7	337.7	337.7
12.5°	365.1	363.3	356.9	353.2	350.5	348.6	346.8	345.9	345.0	344.1	344.1
15°	383.4	378.8	370.6	365.1	361.4	358.7	356.0	354.1	353.2	352.3	352.3
17.5°	405.4	399.9	388.9	378.8	372.4	367.8	364.2	361.4	360.5	360.5	360.5
20°	432.8	423.7	408.1	394.4	384.3	377.9	372.4	369.7	368.8	367.8	366.9
22.5°	464.8	452.9	430.1	409.0	396.2	387.1	380.7	377.0	374.3	373.3	373.3
25°	501.4	484.1	453.9	428.2	410.9	398.0	389.8	385.2	380.7	378.8	378.8
27.5°	545.4	522.5	482.2	448.4	424.6	409.0	399.9	393.5	388.9	385.2	383.4
30°	593.0	567.3	513.3	470.3	440.1	422.8	411.8	404.5	398.0	391.6	390.7
32.5°	653.3	616.7	550.9	495.0	458.4	436.5	423.7	414.5	406.3	399.9	398.0
35°	714.7	670.7	590.2	520.7	475.8	449.3	433.7	423.7	415.4	408.1	407.2
37.5°	777.8	731.1	633.2	550.9	496.0	463.9	444.7	433.7	423.7	416.3	415.4
40°	843.7	788.8	677.1	582.0	517.0	478.6	456.6	442.9	431.9	425.5	424.6
42.5°	905.9	846.4	724.7	618.6	541.7	494.1	468.5	453.9	440.1	433.7	432.8
45°	965.4	901.3	772.3	652.4	566.4	510.6	480.4	463.0	448.4	442.0	441.1
47.5°	1019.4	955.3	816.2	689.0	592.0	528.9	493.2	472.2	455.7	449.3	449.3
50°	1067.9	1001.1	859.2	722.9	615.8	547.2	504.2	480.4	463.9	457.5	456.6
52.5°	1113.6	1041.3	896.7	752.2	638.7	563.7	515.2	486.8	469.4	462.1	461.2
55°	1150.2	1077.9	927.9	776.0	654.3	574.6	522.5	490.5	471.2	464.8	463.9
57.5°	1182.2	1108.1	949.8	792.4	664.3	581.1	526.2	490.5	470.3	463.0	462.1
59°	1196.0	1120.9	957.1	797.0	666.2	582.0	525.2	487.7	466.7	459.4	457.5
60°	1203.3	1126.4	959.9	797.9	665.2	580.1	524.3	485.0	463.0	454.8	454.8
62.5°	1210.6	1131.0	956.2	790.6	655.2	570.1	515.2	474.0	449.3	440.1	440.1
65°	1195.1	1114.5	935.2	770.5	635.0	552.7	497.8	455.7	428.2	419.1	419.1
67.5°	1149.3	1074.3	896.7	733.0	602.1	522.5	469.4	426.4	400.8	390.7	388.0
70°	1071.5	1008.4	836.4	679.0	557.3	484.1	433.7	392.6	366.0	356.0	352.3
72.5°	967.2	905.0	755.8	613.1	497.8	433.7	389.8	350.5	321.2	311.1	312.0
75°	823.5	779.6	651.5	529.8	429.2	369.7	333.1	300.1	275.4	267.2	268.1
77.5°	668.0	631.4	528.0	431.9	350.5	304.7	273.6	247.1	230.6	226.0	223.3
80°	511.5	475.8	396.2	322.1	266.3	234.3	213.2	194.9	182.1	175.7	177.5
82.5°	343.1	321.2	262.6	213.2	181.2	158.3	151.0	139.1	134.5	130.9	133.6
85°	184.8	165.6	137.3	114.4	99.7	93.3	95.2	94.2	90.6	89.7	92.4
87.5°	60.4	52.2	40.3	33.9	34.8	31.1	31.1	29.3	26.5	25.6	27.5
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)