

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: P472246

Luminaire Tested: **CCW-VA-2-835-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472246
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-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

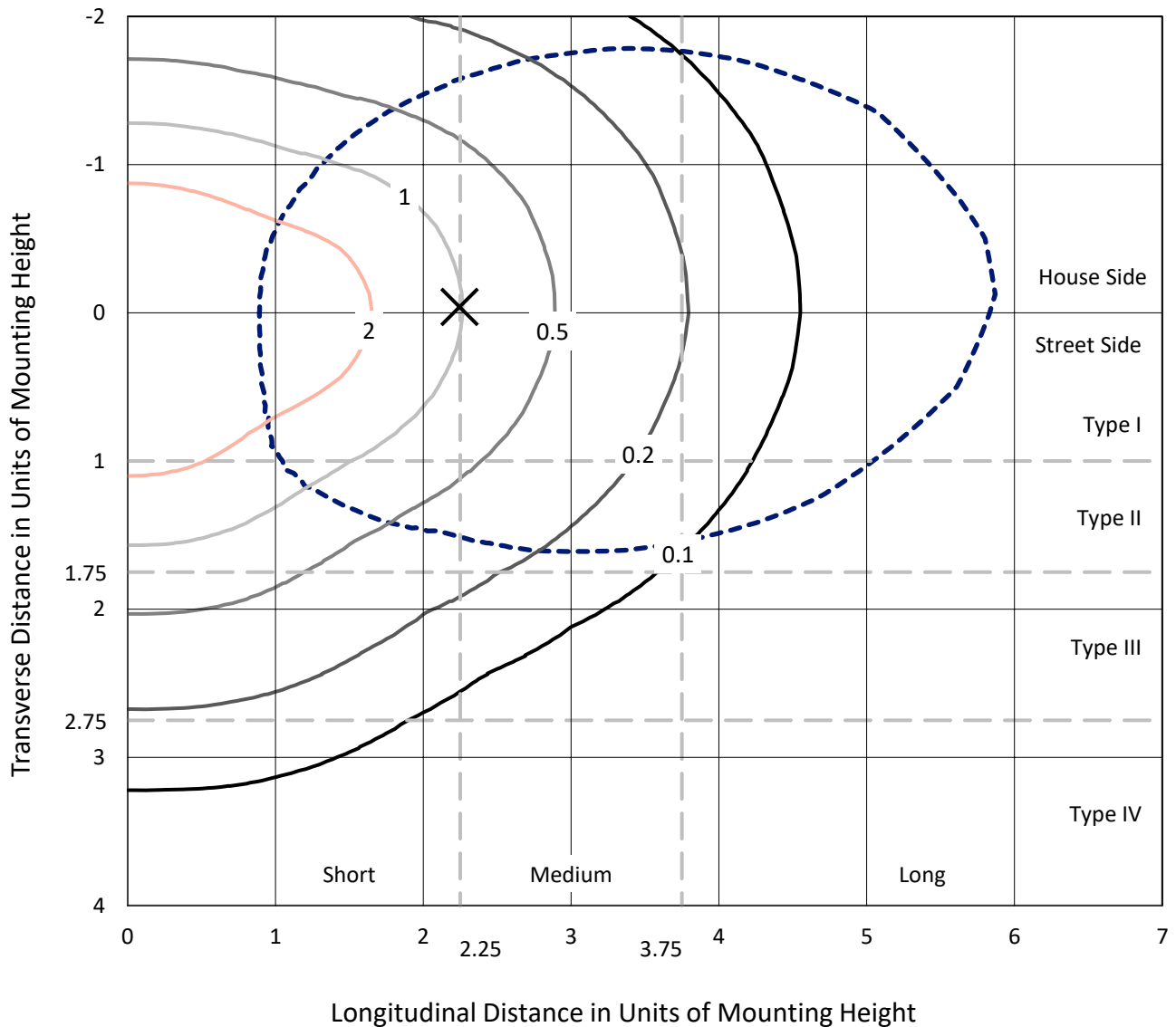
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

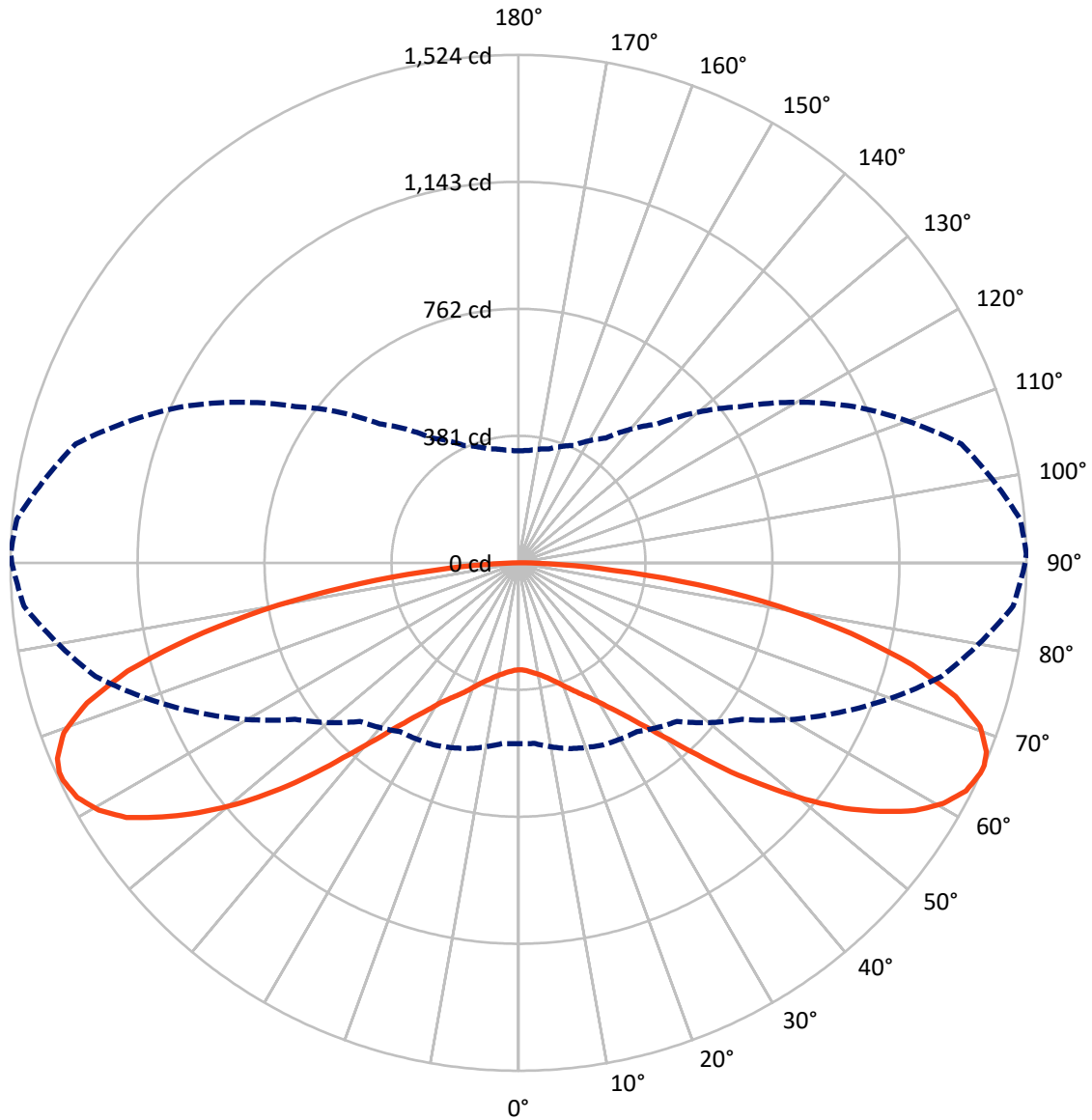
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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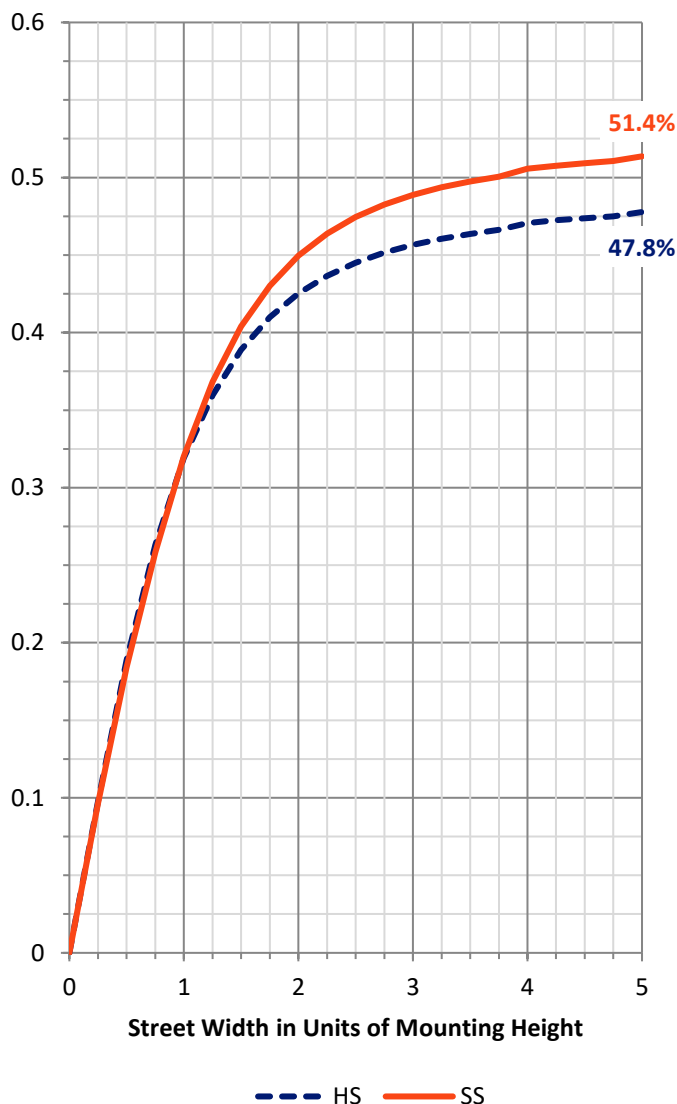
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.9	0.0	1671.9
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1792.1	0.0	1792.1
	% Fixture	51.7	0.0	51.7
Total	Lumens	3464.0	0.0	3464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	0.9
10°-20°	103.4	3.0
20°-30°	200.0	5.8
30°-40°	328.1	9.5
40°-50°	519.8	15.0
50°-60°	716.7	20.7
60°-70°	804.8	23.2
70°-80°	601.5	17.4
80°-90°	158.0	4.6
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°	3464.0	100.0
0°-180°	3464.0	100.0

Coefficient of Utilization



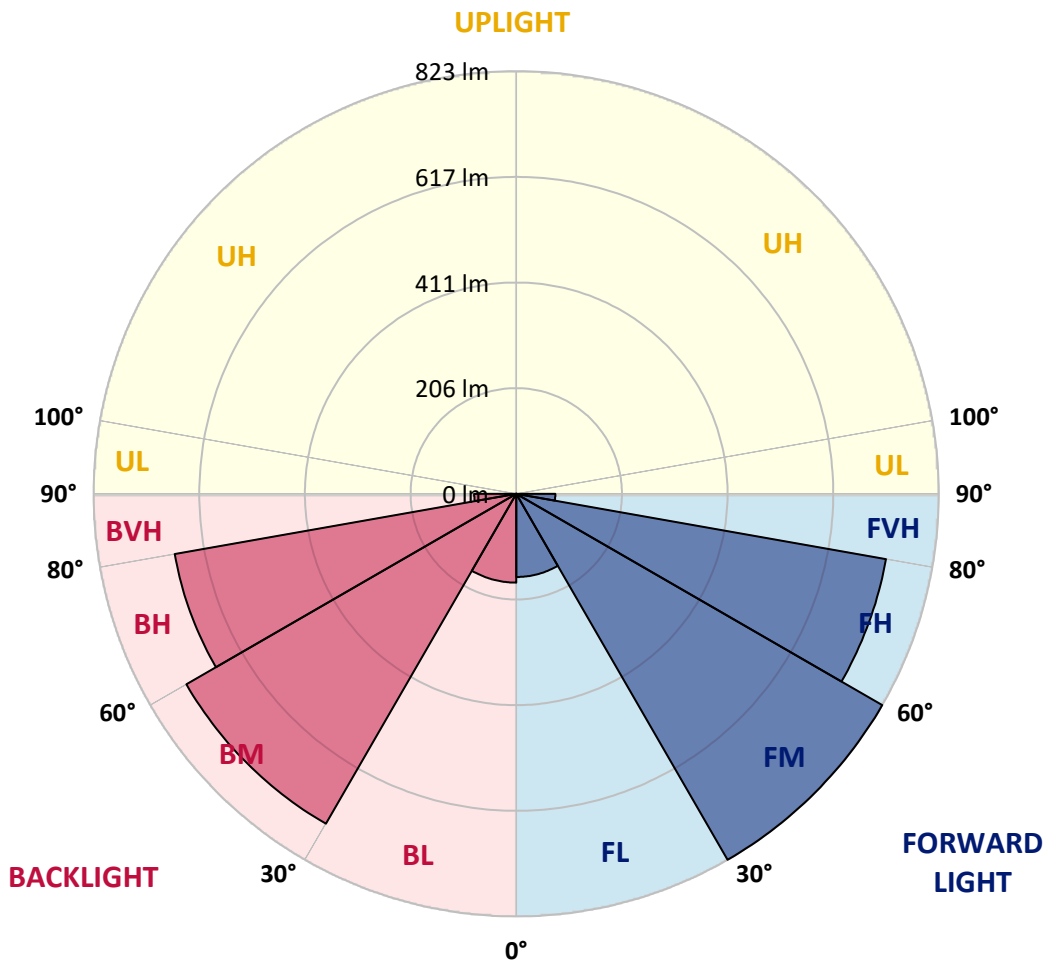
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.0	4.7			
FM (30°-60°)	822.9	23.8			
FH (60°-80°)	731.1	21.1			G1/1800
FVH (80°-90°)	76.1	2.2			G1/100
BL (0°-30°)	173.0	5.0	B1/500		
BM (30°-60°)	741.7	21.4	B1/1000		
BH (60°-80°)	675.3	19.5	B2/1000		G2/1000
BVH (80°-90°)	81.9	2.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	322.2	322.2	322.2	322.2	323.4	323.4	323.4	323.4	323.4	322.2	322.2
5°	324.6	324.6	324.6	324.6	325.9	325.9	325.9	325.9	327.1	327.1	327.1
7.5°	327.1	327.1	328.3	328.3	329.5	329.5	330.8	330.8	332.0	333.2	333.2
10°	332.0	332.0	333.2	333.2	335.7	336.9	338.1	338.1	340.6	340.6	340.6
12.5°	338.1	339.3	340.6	341.8	344.2	345.5	346.7	347.9	349.1	350.4	350.4
15°	347.9	346.7	349.1	351.6	352.8	355.3	356.5	357.7	360.2	362.6	362.6
17.5°	355.3	356.5	357.7	360.2	362.6	366.3	368.8	371.2	373.7	376.1	376.1
20°	365.1	363.9	368.8	372.4	374.9	379.8	383.5	388.4	390.8	393.3	394.5
22.5°	373.7	374.9	377.3	382.2	387.1	394.5	401.8	405.5	409.2	411.6	415.3
25°	384.7	385.9	389.6	394.5	401.8	410.4	419.0	423.9	427.6	432.5	436.1
27.5°	395.7	395.7	401.8	409.2	417.8	428.8	438.6	443.5	449.6	455.7	458.2
30°	408.0	408.0	414.1	423.9	436.1	448.4	457.0	466.8	475.3	481.5	486.4
32.5°	426.3	426.3	433.7	443.5	457.0	471.7	483.9	493.7	504.7	515.8	525.6
35°	447.2	448.4	458.2	470.4	486.4	504.7	515.8	529.2	541.5	559.9	569.7
37.5°	480.2	481.5	492.5	508.4	524.3	543.9	562.3	578.2	596.6	617.4	624.8
40°	529.2	532.9	543.9	551.3	566.0	580.7	607.6	634.6	666.4	694.6	699.5
42.5°	617.4	613.8	606.4	604.0	607.6	623.6	653.0	694.6	751.0	786.5	786.5
45°	651.7	651.7	653.0	650.5	648.1	659.1	693.4	759.6	839.2	888.2	898.0
47.5°	657.9	659.1	670.1	679.9	682.4	694.6	736.3	823.3	929.8	1002.1	1008.2
50°	657.9	660.3	675.0	692.2	704.4	721.6	773.0	879.6	1019.3	1102.6	1118.5
52.5°	655.4	657.9	673.8	694.6	714.2	738.7	804.9	938.4	1098.9	1211.6	1219.0
55°	649.3	651.7	671.3	693.4	715.4	748.5	830.6	988.6	1176.1	1302.3	1315.7
57.5°	641.9	645.6	666.4	689.7	710.5	751.0	847.8	1027.8	1238.6	1383.1	1407.6
60°	627.2	633.4	656.6	679.9	699.5	742.4	856.3	1058.5	1285.1	1441.9	1466.4
62.5°	597.8	604.0	629.7	655.4	675.0	721.6	851.4	1073.2	1312.1	1478.7	1504.4
65°	561.1	563.5	591.7	618.7	638.3	687.3	830.6	1070.7	1318.2	1490.9	1520.3
66°	542.7	543.9	577.0	602.7	618.7	672.6	818.4	1062.1	1314.5	1489.7	1520.3
67.5°	509.6	515.8	543.9	570.9	589.3	639.5	789.0	1042.5	1299.8	1477.5	1509.3
70°	452.1	457.0	480.2	507.2	526.8	574.6	725.3	985.0	1245.9	1427.2	1464.0
72.5°	389.6	393.3	417.8	437.4	449.6	501.1	648.1	890.6	1151.6	1332.9	1368.4
75°	323.4	325.9	347.9	361.4	372.4	417.8	545.2	769.4	1003.3	1179.8	1226.3
77.5°	254.8	256.0	274.4	286.7	286.7	325.9	432.5	623.6	823.3	986.2	1020.5
80°	187.4	186.2	197.2	203.4	207.0	232.8	311.2	458.2	627.2	754.7	787.7
82.5°	122.5	121.3	128.6	131.1	131.1	147.0	196.0	290.3	411.6	512.1	531.7
85°	64.9	67.4	66.2	66.2	66.2	72.3	98.0	151.9	219.3	274.4	287.9
87.5°	11.0	11.0	11.0	12.3	14.7	19.6	25.7	42.9	62.5	84.5	95.6
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	322.2	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
5°	327.1	327.1	327.1	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3
7.5°	333.2	333.2	334.4	334.4	334.4	335.7	335.7	334.4	334.4	334.4	334.4
10°	340.6	340.6	341.8	343.0	343.0	344.2	344.2	343.0	343.0	341.8	341.8
12.5°	350.4	351.6	352.8	354.0	355.3	355.3	354.0	352.8	351.6	350.4	350.4
15°	362.6	363.9	365.1	367.5	367.5	367.5	366.3	365.1	362.6	361.4	362.6
17.5°	377.3	378.6	381.0	382.2	383.5	382.2	382.2	381.0	381.0	379.8	379.8
20°	395.7	396.9	400.6	401.8	401.8	403.1	406.7	409.2	412.9	414.1	414.1
22.5°	414.1	416.5	420.2	425.1	427.6	432.5	433.7	436.1	434.9	431.2	431.2
25°	436.1	438.6	445.9	452.1	457.0	459.4	457.0	453.3	447.2	442.3	441.0
27.5°	459.4	463.1	474.1	482.7	485.1	482.7	472.9	464.3	457.0	450.8	448.4
30°	488.8	494.9	507.2	512.1	510.9	501.1	486.4	475.3	464.3	457.0	455.7
32.5°	525.6	531.7	542.7	543.9	536.6	518.2	498.6	483.9	470.4	461.9	460.6
35°	569.7	575.8	581.9	578.2	557.4	534.1	509.6	488.8	475.3	465.5	465.5
37.5°	626.0	629.7	629.7	611.3	579.5	548.8	518.2	493.7	479.0	469.2	468.0
40°	699.5	698.3	681.1	645.6	604.0	562.3	524.3	498.6	480.2	470.4	469.2
42.5°	787.7	779.2	742.4	684.8	627.2	574.6	531.7	499.8	479.0	469.2	468.0
45°	895.5	880.8	814.7	730.2	651.7	585.6	535.4	498.6	475.3	464.3	463.1
47.5°	1002.1	993.5	902.9	777.9	676.2	597.8	537.8	494.9	468.0	452.1	452.1
50°	1114.8	1094.0	991.1	835.5	702.0	606.4	537.8	488.8	455.7	438.6	436.1
52.5°	1223.9	1203.0	1080.5	893.1	730.2	615.0	535.4	480.2	444.7	426.3	423.9
55°	1317.0	1299.8	1167.5	958.0	759.6	621.1	531.7	470.4	433.7	416.5	414.1
57.5°	1402.7	1385.6	1243.5	1013.1	787.7	624.8	523.1	458.2	420.2	403.1	401.8
60°	1465.2	1451.7	1308.4	1064.6	811.0	624.8	510.9	443.5	405.5	388.4	387.1
62.5°	1506.9	1493.4	1354.9	1098.9	825.7	616.2	492.5	423.9	387.1	371.2	367.5
65°	1522.8	1510.5	1375.8	1112.4	823.3	599.1	468.0	399.4	363.9	347.9	345.5
66°	1524.0	1510.5	1375.8	1109.9	817.1	589.3	457.0	388.4	354.0	338.1	335.7
67.5°	1514.2	1502.0	1367.2	1097.7	800.0	570.9	434.9	370.0	335.7	319.7	318.5
70°	1468.9	1459.1	1320.6	1051.1	759.6	530.5	398.2	334.4	301.4	290.3	286.7
72.5°	1370.9	1359.8	1227.5	964.1	693.4	475.3	351.6	292.8	265.8	252.4	251.1
75°	1219.0	1214.1	1085.4	849.0	597.8	409.2	297.7	247.5	225.4	215.6	215.6
77.5°	1020.5	1010.7	901.7	702.0	491.3	330.8	238.9	200.9	183.8	175.2	176.4
80°	793.9	786.5	694.6	526.8	371.2	248.7	178.9	153.1	140.9	136.0	133.5
82.5°	543.9	524.3	463.1	349.1	241.3	167.8	123.7	106.6	100.5	99.2	98.0
85°	283.0	290.3	243.8	185.0	131.1	93.1	74.7	68.6	66.2	67.4	67.4
87.5°	93.1	95.6	73.5	56.4	42.9	33.1	28.2	27.0	23.3	25.7	27.0
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)