

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: P472335

Luminaire Tested: **CCW-VA-3-827-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472335  
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-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.1 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

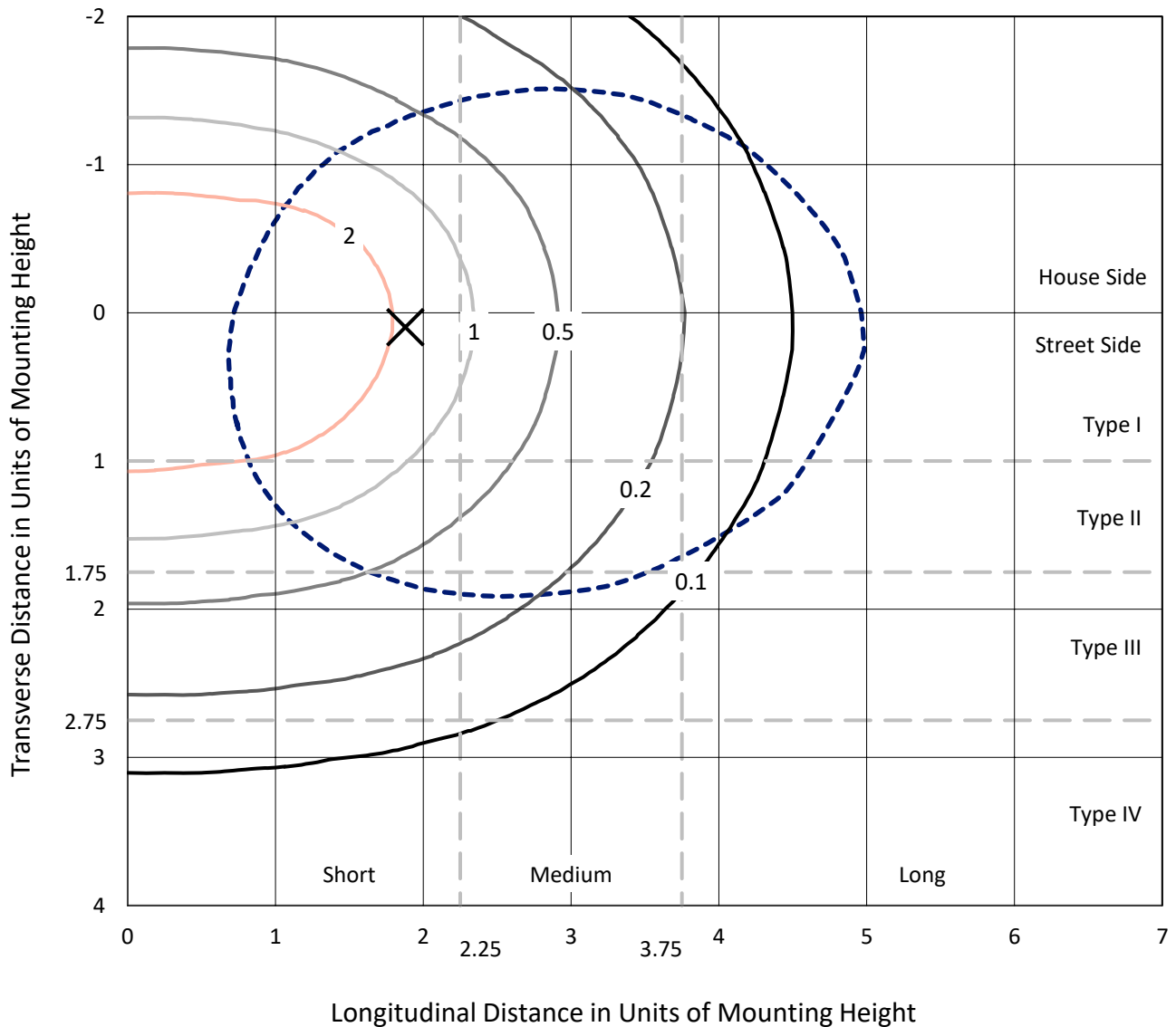
Input Watts (W): 48.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

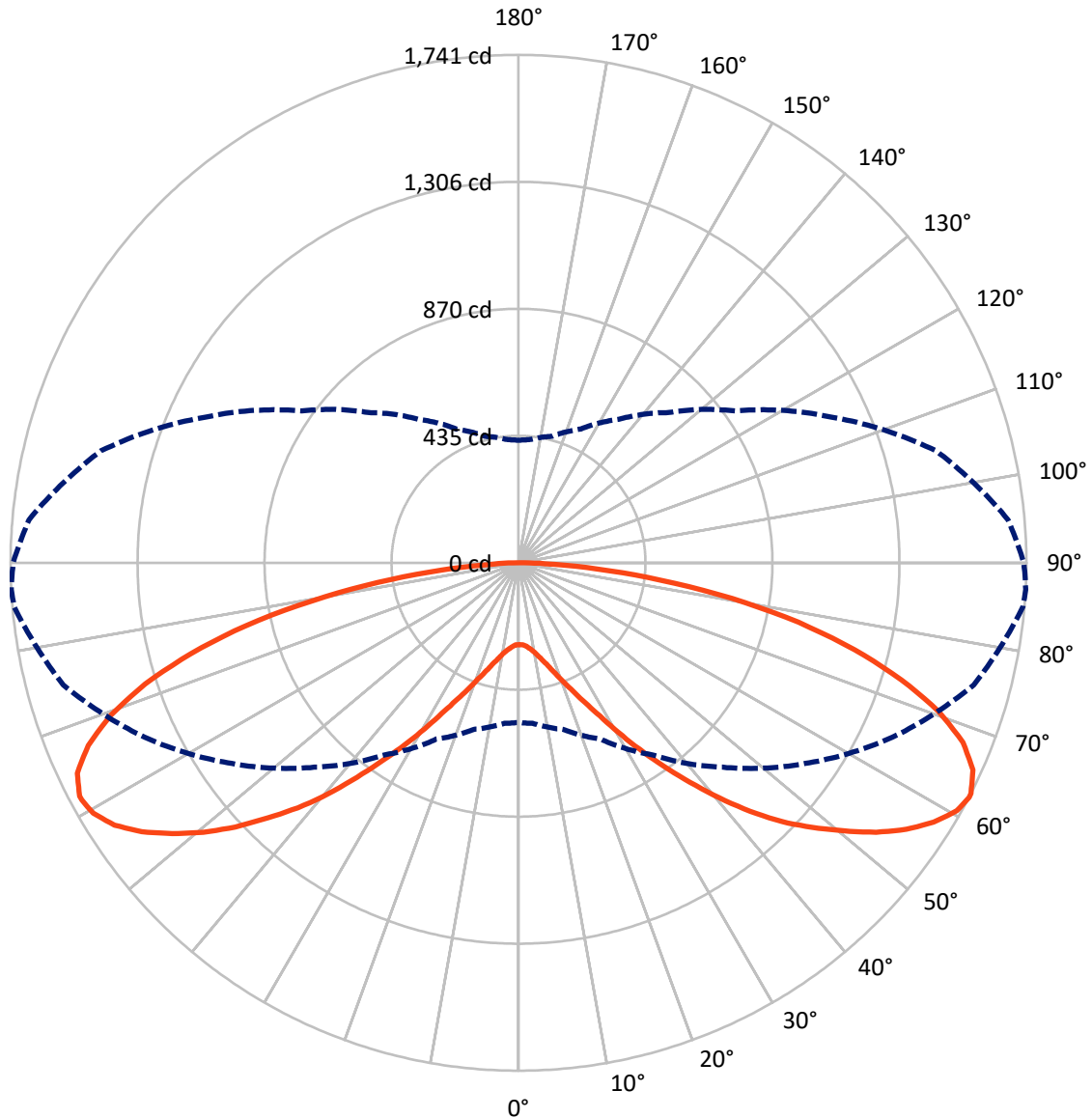
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral      - - - Horizontal Cone Through 62-Deg Vertical

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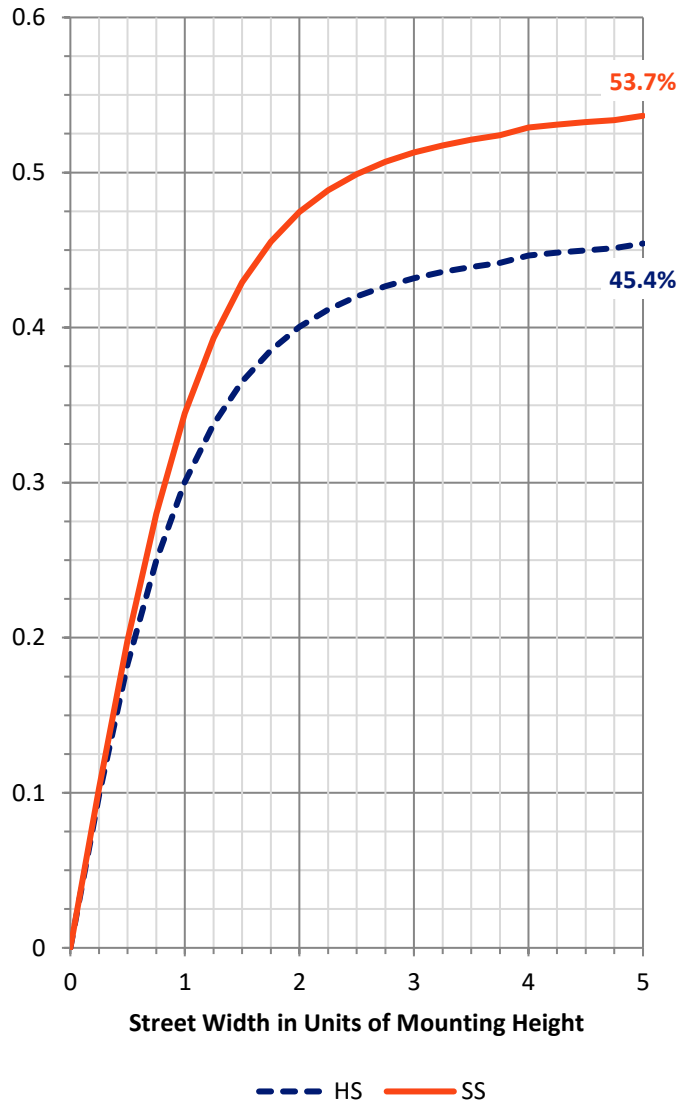
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1823.8	0.0	1823.8
	% Fixture	46.0	0.0	46.0
<b>Street Side</b>	Lumens	2137.3	0.0	2137.3
	% Fixture	54.0	0.0	54.0
<b>Total</b>	Lumens	3961.1	0.0	3961.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.2	0.7
10°-20°	99.5	2.5
20°-30°	212.8	5.4
30°-40°	392.2	9.9
40°-50°	625.5	15.8
50°-60°	850.6	21.5
60°-70°	921.6	23.3
70°-80°	658.5	16.6
80°-90°	172.1	4.3
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°	3961.1	100.0
0°-180°	3961.1	100.0

**Coefficient of Utilization**

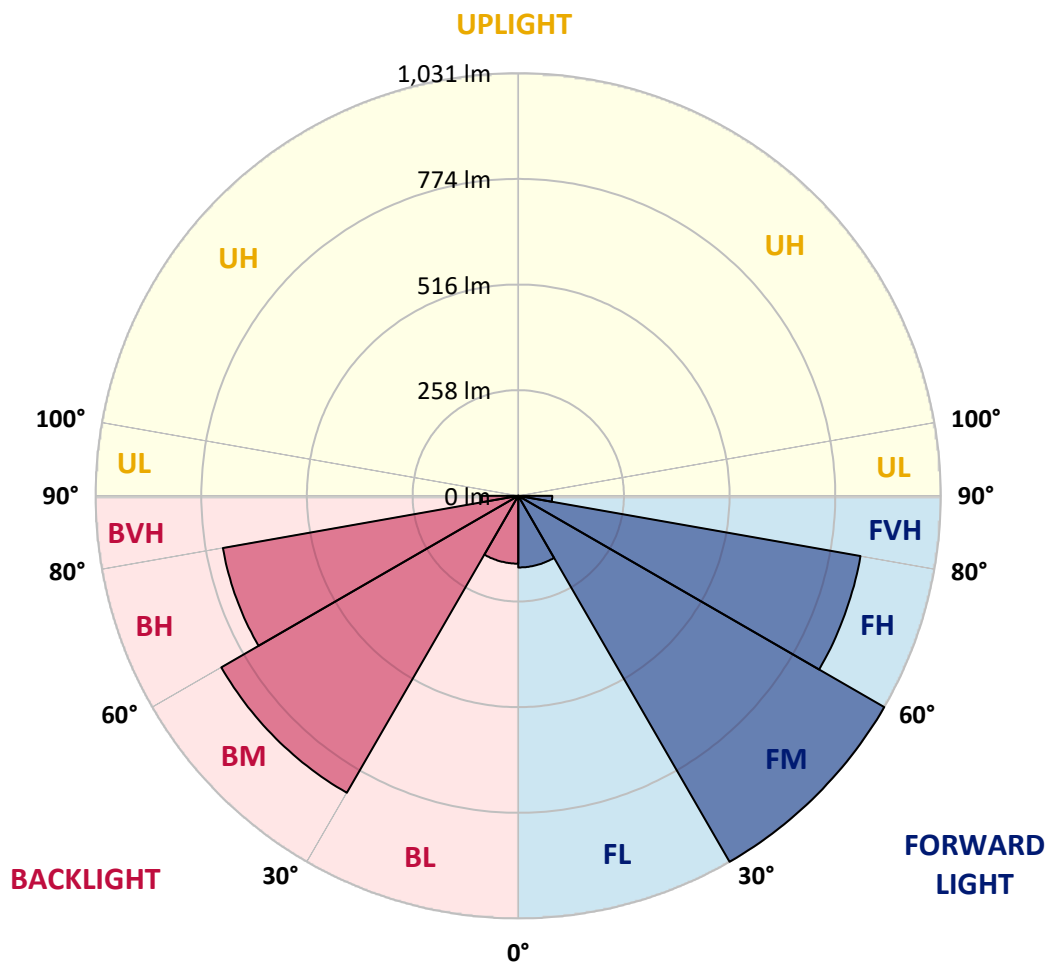


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.9	4.4			
FM (30°-60°)	1031.4	26.0			
FH (60°-80°)	848.1	21.4			G1/1800
FVH (80°-90°)	82.9	2.1			G1/100
BL (0°-30°)	165.6	4.2	B1/500		
BM (30°-60°)	836.9	21.1	B1/1000		
BH (60°-80°)	732.0	18.5	B2/1000		G2/1000
BVH (80°-90°)	89.2	2.3			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.6	281.6
5°	282.9	282.2	282.2	282.9	283.5	284.2	285.4	286.1	287.4	288.6	288.0
7.5°	288.6	288.6	288.6	289.3	291.2	292.5	294.4	296.3	298.2	299.5	298.8
10°	297.6	297.6	297.6	298.8	300.8	304.6	307.8	311.0	312.9	314.2	314.8
12.5°	307.2	307.2	308.4	311.0	314.8	319.9	325.7	330.1	333.3	334.6	335.2
15°	320.6	321.2	323.8	326.3	331.4	339.1	348.7	355.0	358.2	360.8	360.2
17.5°	341.0	340.4	342.3	348.0	353.8	364.6	376.1	387.0	393.4	393.4	393.4
20°	364.0	363.3	364.6	369.1	378.7	393.4	411.2	425.9	432.9	431.7	432.9
22.5°	389.5	389.5	390.8	394.6	404.2	425.3	450.2	471.9	481.5	478.3	477.0
25°	417.6	417.6	419.5	422.7	436.1	461.7	494.9	526.2	535.8	532.6	531.3
27.5°	450.2	447.6	451.5	454.7	471.3	505.1	548.5	588.1	609.2	598.3	594.5
30°	484.7	482.8	483.4	489.8	508.9	552.4	604.1	657.1	686.5	679.4	673.7
32.5°	514.7	516.0	517.9	528.7	550.4	602.8	662.8	732.4	765.6	763.7	762.4
35°	548.5	548.5	552.4	562.6	594.5	656.4	729.2	807.8	857.0	858.9	855.0
37.5°	575.3	575.3	581.1	594.5	632.2	705.6	795.0	887.6	947.0	957.2	954.0
40°	599.0	597.7	604.1	623.9	667.9	758.0	859.5	966.8	1046.6	1063.9	1059.4
42.5°	613.0	614.3	623.2	648.1	702.4	804.0	922.7	1041.5	1134.7	1164.1	1164.1
45°	623.2	624.5	637.9	667.3	733.7	849.3	980.2	1118.1	1220.9	1263.7	1265.6
47.5°	627.7	629.6	646.2	682.0	759.9	890.8	1035.8	1187.1	1298.2	1358.9	1355.0
50°	627.7	630.3	650.1	692.8	783.5	925.9	1088.1	1252.9	1376.8	1444.4	1443.8
52.5°	623.9	627.1	651.3	701.1	803.3	959.8	1134.7	1309.1	1452.1	1531.9	1534.5
55°	616.2	620.0	648.1	706.3	818.6	986.6	1172.4	1361.4	1517.2	1607.3	1613.0
57.5°	600.9	604.7	636.7	701.8	824.4	1000.6	1199.9	1398.5	1570.2	1675.6	1676.9
60°	575.3	579.8	614.3	687.1	818.6	1001.3	1206.9	1415.1	1606.0	1721.6	1726.0
62°	547.3	552.4	591.3	666.7	804.0	991.1	1199.2	1414.4	1615.6	1735.0	1740.7
62.5°	540.2	544.7	584.3	659.6	798.2	985.9	1194.8	1411.2	1614.3	1735.6	1740.1
65°	496.8	501.3	541.5	621.3	763.1	954.7	1162.2	1383.1	1591.3	1710.1	1711.4
67.5°	448.9	453.4	493.6	569.0	712.6	902.3	1107.3	1327.6	1530.0	1632.8	1642.4
70°	393.4	399.7	436.8	511.5	646.2	826.9	1020.4	1239.5	1432.3	1519.8	1528.7
72.5°	338.4	342.9	372.3	438.1	560.0	728.0	908.0	1106.0	1281.6	1364.6	1372.3
75°	274.6	278.4	307.2	361.4	463.6	606.6	776.5	949.6	1109.2	1183.9	1189.7
77.5°	216.5	217.8	238.2	281.6	360.2	475.7	616.2	752.9	897.8	965.5	980.8
80°	152.6	159.0	173.1	203.1	252.9	341.0	442.5	559.4	660.9	736.9	742.0
82.5°	99.0	100.3	109.2	120.1	155.8	215.2	281.6	353.8	444.4	493.6	489.8
85°	51.7	51.7	54.9	58.1	70.2	96.4	136.0	186.5	239.5	276.5	271.4
87.5°	8.9	8.3	8.9	8.3	10.9	15.3	28.7	46.6	70.2	83.0	91.3
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°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	281.6	281.6	282.2	283.5	283.5	284.2	284.8	284.8	285.4	286.1	286.1
5°	289.3	289.3	289.9	291.2	291.8	291.8	292.5	293.1	293.1	293.1	293.7
7.5°	299.5	300.1	300.8	301.4	302.0	302.0	304.0	303.3	303.3	303.3	303.3
10°	314.2	315.5	315.5	315.5	315.5	314.8	315.5	314.8	313.5	313.5	312.9
12.5°	335.9	335.9	334.6	333.3	331.4	330.8	330.1	328.2	325.7	324.4	324.4
15°	360.8	359.5	357.0	354.4	351.2	348.7	344.2	341.6	338.4	337.2	337.2
17.5°	392.7	390.8	383.8	378.7	371.0	365.3	360.2	355.0	351.2	349.9	349.3
20°	429.1	424.6	414.4	402.9	392.7	383.8	374.2	367.8	364.0	360.8	360.2
22.5°	475.1	468.7	450.8	432.9	414.4	401.7	389.5	380.6	373.6	370.4	369.1
25°	524.9	515.3	492.3	465.5	440.0	420.2	404.9	392.7	384.4	379.3	378.0
27.5°	588.1	574.1	540.2	500.0	466.2	441.3	420.2	406.1	395.3	387.6	386.3
30°	662.2	647.5	591.3	538.3	495.5	460.4	437.4	418.9	405.5	396.6	394.6
32.5°	750.3	723.5	659.0	584.3	525.5	482.8	453.4	431.7	415.1	404.9	402.3
35°	839.7	812.3	727.3	632.8	557.5	505.7	470.6	444.4	425.9	413.2	411.9
37.5°	940.0	906.8	807.1	687.7	592.0	530.0	486.6	456.6	434.2	420.8	419.5
40°	1047.9	1014.0	892.7	751.0	632.8	553.6	501.9	468.1	443.2	428.5	426.6
42.5°	1153.9	1113.7	979.6	814.2	674.3	579.8	519.8	480.2	450.8	435.5	432.9
45°	1245.8	1210.7	1067.7	887.0	722.2	606.6	537.7	491.7	459.1	441.9	439.3
47.5°	1349.9	1312.3	1164.1	954.0	768.2	637.3	554.9	501.9	466.2	447.6	445.7
50°	1441.9	1408.0	1249.7	1016.0	812.3	666.0	570.9	511.5	471.9	452.1	449.6
52.5°	1525.5	1495.5	1328.2	1074.1	849.9	692.8	585.6	518.5	475.7	454.0	450.8
55°	1609.8	1570.9	1396.5	1125.2	879.9	713.9	597.7	521.7	475.1	452.7	449.6
57.5°	1673.0	1636.0	1446.4	1161.6	902.3	728.0	604.7	521.1	471.3	447.0	443.2
60°	1715.8	1675.0	1475.7	1179.4	910.0	732.4	604.7	515.3	461.7	435.5	431.7
62°	1731.8	1684.5	1481.5	1182.0	906.8	728.0	600.3	505.7	448.9	423.4	419.5
62.5°	1732.4	1683.9	1479.6	1180.1	904.9	726.1	597.7	502.6	445.7	419.5	415.7
65°	1704.3	1655.8	1456.6	1160.3	883.1	708.8	579.8	484.0	423.4	397.8	394.0
67.5°	1623.9	1586.8	1401.7	1114.3	846.1	676.9	553.6	457.2	397.2	370.4	368.5
70°	1512.1	1478.3	1312.3	1044.7	792.5	630.9	514.7	421.5	364.0	339.7	335.2
72.5°	1371.6	1327.6	1185.2	951.5	715.2	567.7	463.6	376.8	325.7	304.0	301.4
75°	1197.3	1144.3	1025.5	828.2	622.6	491.7	404.2	326.9	281.6	263.1	265.0
77.5°	975.1	950.2	828.9	660.3	507.0	406.8	331.4	277.1	238.2	222.9	221.6
80°	736.3	712.6	627.7	501.3	383.1	307.8	256.7	218.4	191.6	178.2	177.5
82.5°	499.4	477.0	412.5	336.5	261.2	217.8	185.8	160.9	144.3	137.9	137.9
85°	274.6	255.4	218.4	182.0	147.5	124.5	120.1	107.3	102.8	101.5	102.8
87.5°	85.6	84.9	72.2	59.4	51.7	52.4	47.3	48.5	46.0	45.3	48.5
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)