

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: P472353

Luminaire Tested: **CCW-VA-1-860-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472353  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-1-860-U-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 5700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2767.3 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

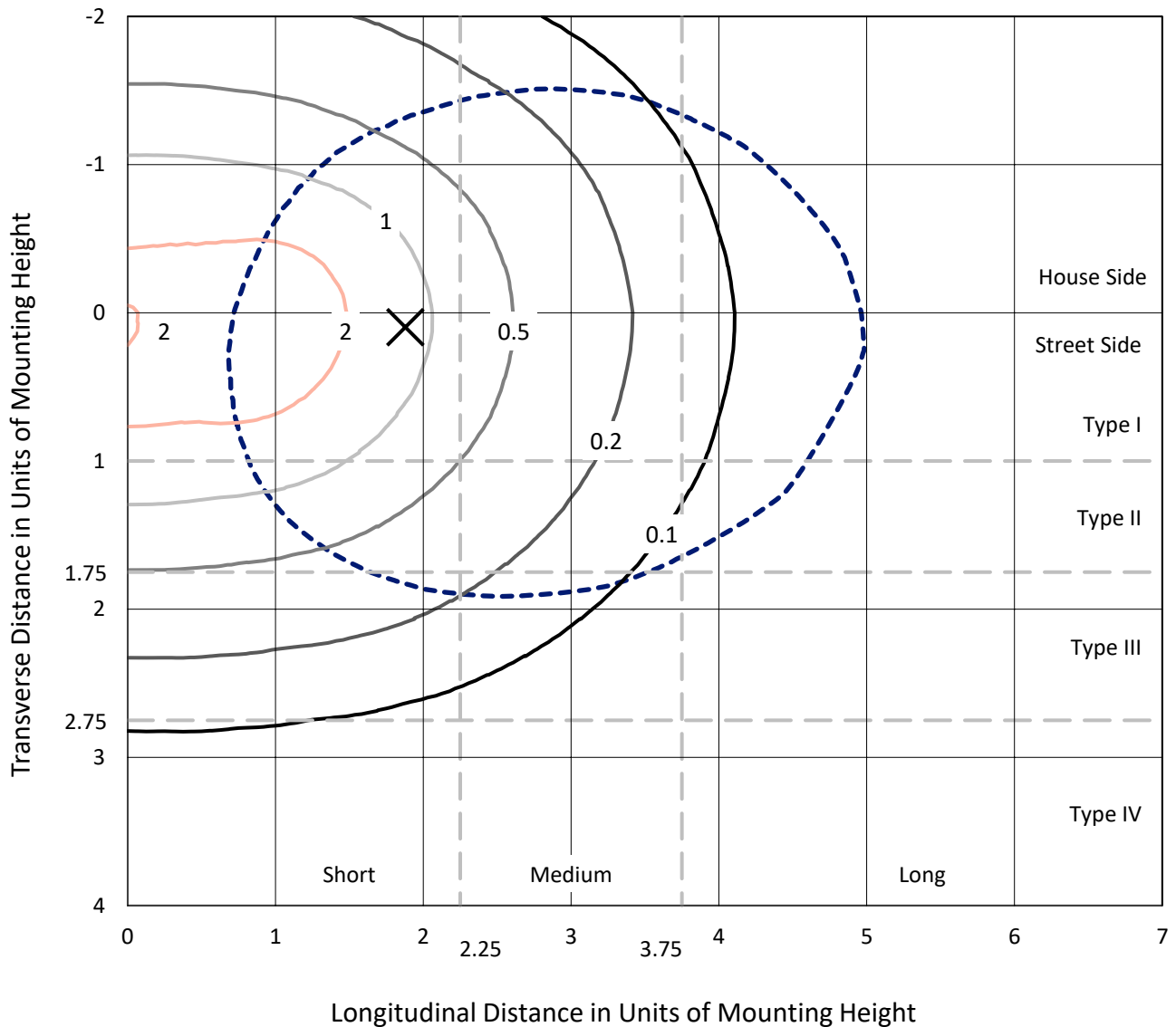
Input Watts (W): 30.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P472353  
 CATALOG NUMBER: CCW-VA-1-860-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

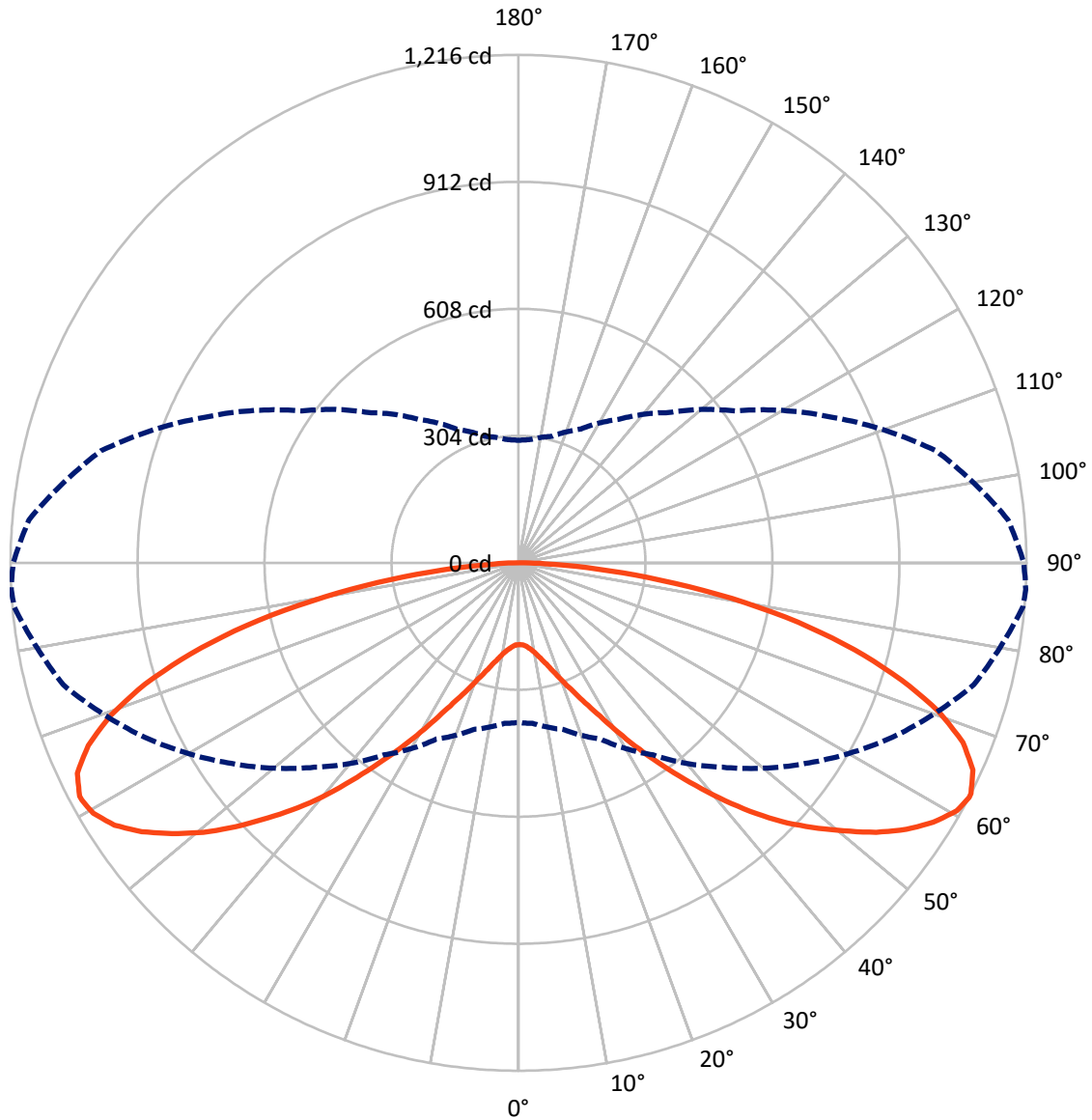
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P472353  
CATALOG NUMBER: CCW-VA-1-860-U-T3

### Luminous Intensity Polar Plot



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

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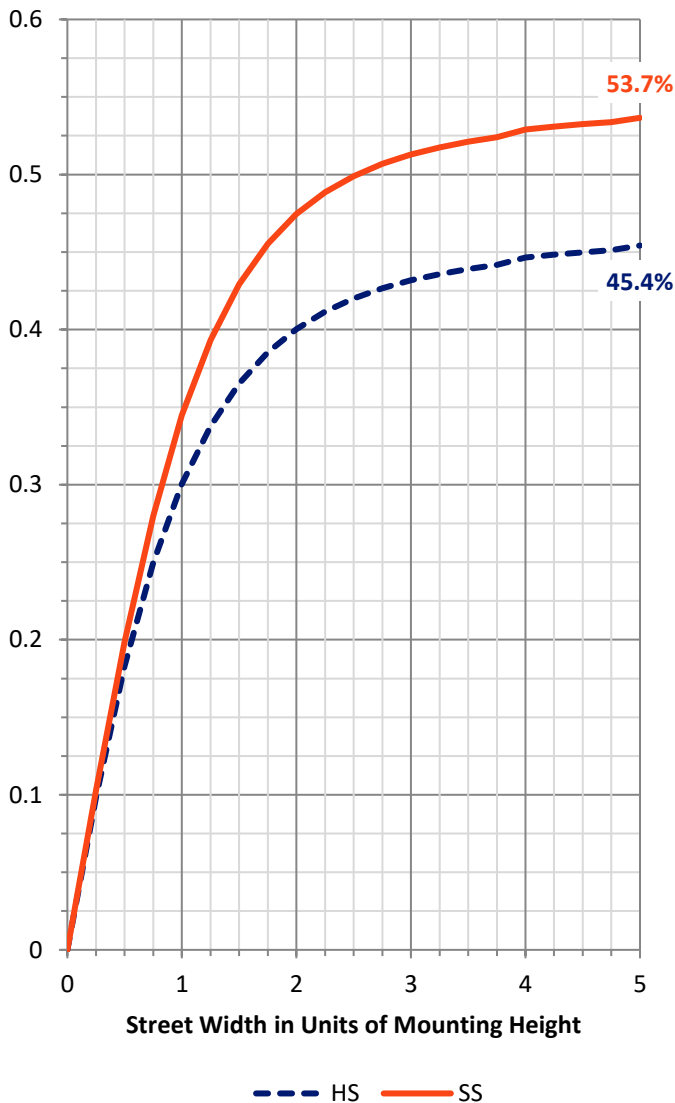
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1274.1	0.0	1274.1
	% Fixture	46.0	0.0	46.0
<b>Street Side</b>	Lumens	1493.2	0.0	1493.2
	% Fixture	54.0	0.0	54.0
<b>Total</b>	Lumens	2767.3	0.0	2767.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	0.7
10°-20°	69.5	2.5
20°-30°	148.7	5.4
30°-40°	274.0	9.9
40°-50°	437.0	15.8
50°-60°	594.2	21.5
60°-70°	643.8	23.3
70°-80°	460.0	16.6
80°-90°	120.2	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°	2767.3	100.0
0°-180°	2767.3	100.0

**Coefficient of Utilization**

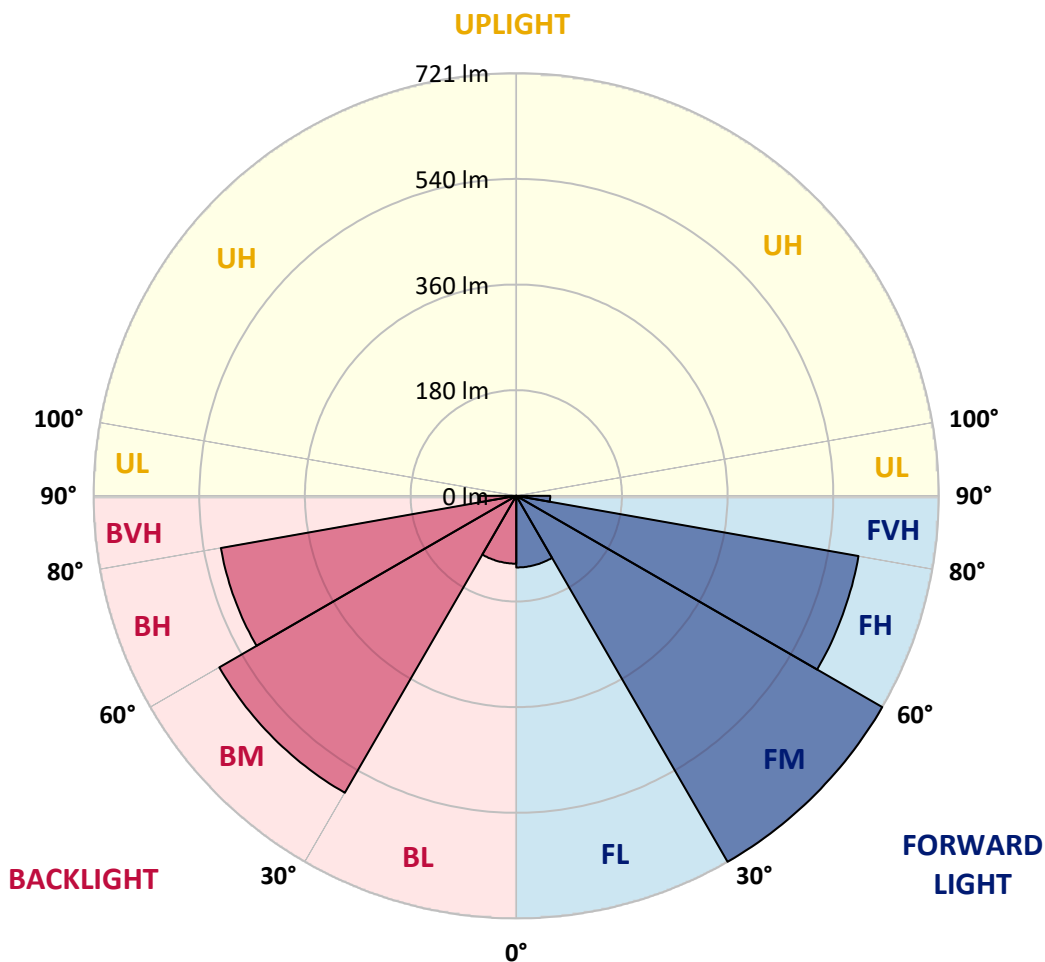


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.2	4.4			
FM (30°-60°)	720.6	26.0			
FH (60°-80°)	592.5	21.4			G0/660
FVH (80°-90°)	57.9	2.1			G1/100
BL (0°-30°)	115.7	4.2	B1/500		
BM (30°-60°)	584.7	21.1	B1/1000		
BH (60°-80°)	511.4	18.5	B2/1000		G2/1000
BVH (80°-90°)	62.3	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





REPORT NUMBER: P472353  
 CATALOG NUMBER: CCW-VA-1-860-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.7	196.7
5°	197.6	197.2	197.2	197.6	198.1	198.5	199.4	199.9	200.7	201.6	201.2
7.5°	201.6	201.6	201.6	202.1	203.4	204.3	205.7	207.0	208.3	209.2	208.8
10°	207.9	207.9	207.9	208.8	210.1	212.8	215.0	217.3	218.6	219.5	219.9
12.5°	214.6	214.6	215.5	217.3	219.9	223.5	227.5	230.6	232.9	233.8	234.2
15°	223.9	224.4	226.2	228.0	231.5	236.9	243.6	248.0	250.3	252.0	251.6
17.5°	238.2	237.8	239.1	243.1	247.1	254.7	262.8	270.3	274.8	274.8	274.8
20°	254.3	253.8	254.7	257.8	264.5	274.8	287.3	297.6	302.5	301.6	302.5
22.5°	272.1	272.1	273.0	275.7	282.4	297.1	314.5	329.7	336.4	334.1	333.2
25°	291.8	291.8	293.1	295.3	304.7	322.5	345.7	367.6	374.3	372.1	371.2
27.5°	314.5	312.7	315.4	317.6	329.2	352.9	383.2	410.9	425.6	418.0	415.3
30°	338.6	337.3	337.7	342.2	355.5	385.9	422.0	459.0	479.6	474.7	470.6
32.5°	359.6	360.5	361.8	369.4	384.5	421.1	463.1	511.7	534.9	533.5	532.6
35°	383.2	383.2	385.9	393.0	415.3	458.6	509.5	564.3	598.7	600.0	597.3
37.5°	401.9	401.9	406.0	415.3	441.6	492.9	555.4	620.1	661.6	668.7	666.5
40°	418.4	417.6	422.0	435.8	466.6	529.5	600.5	675.4	731.2	743.2	740.1
42.5°	428.3	429.2	435.4	452.8	490.7	561.6	644.6	727.6	792.7	813.2	813.2
45°	435.4	436.3	445.7	466.2	512.6	593.3	684.8	781.1	853.0	882.8	884.2
47.5°	438.5	439.9	451.5	476.4	530.9	622.3	723.6	829.3	906.9	949.3	946.6
50°	438.5	440.3	454.1	484.0	547.4	646.9	760.2	875.3	961.8	1009.1	1008.6
52.5°	435.8	438.1	455.0	489.8	561.2	670.5	792.7	914.5	1014.4	1070.2	1072.0
55°	430.5	433.2	452.8	493.4	571.9	689.2	819.0	951.1	1059.9	1122.8	1126.9
57.5°	419.8	422.5	444.8	490.3	575.9	699.0	838.2	977.0	1097.0	1170.6	1171.5
60°	401.9	405.1	429.2	480.0	571.9	699.5	843.1	988.6	1122.0	1202.7	1205.8
62°	382.3	385.9	413.1	465.7	561.6	692.4	837.8	988.1	1128.6	1212.1	1216.1
62.5°	377.4	380.5	408.2	460.8	557.6	688.8	834.7	985.9	1127.7	1212.5	1215.6
65°	347.1	350.2	378.3	434.1	533.1	666.9	811.9	966.3	1111.7	1194.7	1195.6
67.5°	313.6	316.7	344.8	397.5	497.9	630.3	773.5	927.4	1068.9	1140.7	1147.4
70°	274.8	279.3	305.1	357.3	451.5	577.7	712.9	865.9	1000.6	1061.7	1068.0
72.5°	236.4	239.6	260.1	306.0	391.2	508.6	634.4	772.7	895.3	953.3	958.7
75°	191.8	194.5	214.6	252.5	323.9	423.8	542.5	663.4	774.9	827.1	831.1
77.5°	151.2	152.1	166.4	196.7	251.6	332.3	430.5	526.0	627.2	674.5	685.2
80°	106.6	111.1	120.9	141.9	176.7	238.2	309.1	390.8	461.7	514.8	518.4
82.5°	69.1	70.0	76.3	83.9	108.8	150.3	196.7	247.1	310.5	344.8	342.2
85°	36.1	36.1	38.4	40.6	49.1	67.4	95.0	130.3	167.3	193.2	189.6
87.5°	6.2	5.8	6.2	5.8	7.6	10.7	20.1	32.6	49.1	58.0	63.8
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: P472353  
 CATALOG NUMBER: CCW-VA-1-860-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	196.7	196.7	197.2	198.1	198.1	198.5	199.0	199.0	199.4	199.9	199.9
5°	202.1	202.1	202.5	203.4	203.9	203.9	204.3	204.8	204.8	204.8	205.2
7.5°	209.2	209.7	210.1	210.6	211.0	211.0	212.3	211.9	211.9	211.9	211.9
10°	219.5	220.4	220.4	220.4	220.4	219.9	220.4	219.9	219.0	219.0	218.6
12.5°	234.7	234.7	233.8	232.9	231.5	231.1	230.6	229.3	227.5	226.6	226.6
15°	252.0	251.2	249.4	247.6	245.4	243.6	240.4	238.7	236.4	235.5	235.5
17.5°	274.4	273.0	268.1	264.5	259.2	255.2	251.6	248.0	245.4	244.5	244.0
20°	299.8	296.7	289.5	281.5	274.4	268.1	261.4	257.0	254.3	252.0	251.6
22.5°	331.9	327.4	314.9	302.5	289.5	280.6	272.1	265.9	261.0	258.7	257.8
25°	366.7	360.0	343.9	325.2	307.4	293.5	282.8	274.4	268.6	265.0	264.1
27.5°	410.9	401.0	377.4	349.3	325.7	308.3	293.5	283.7	276.1	270.8	269.9
30°	462.6	452.3	413.1	376.1	346.2	321.6	305.6	292.6	283.3	277.0	275.7
32.5°	524.2	505.4	460.4	408.2	367.1	337.3	316.7	301.6	290.0	282.8	281.0
35°	586.6	567.4	508.1	442.1	389.4	353.3	328.8	310.5	297.6	288.6	287.7
37.5°	656.7	633.5	563.9	480.5	413.5	370.3	339.9	319.0	303.4	294.0	293.1
40°	732.1	708.4	623.7	524.6	442.1	386.8	350.6	327.0	309.6	299.3	298.0
42.5°	806.1	778.0	684.3	568.8	471.1	405.1	363.1	335.5	314.9	304.2	302.5
45°	870.3	845.8	745.9	619.6	504.5	423.8	375.6	343.5	320.7	308.7	306.9
47.5°	943.1	916.7	813.2	666.5	536.7	445.2	387.7	350.6	325.7	312.7	311.4
50°	1007.3	983.7	873.0	709.8	567.4	465.3	398.8	357.3	329.7	315.8	314.1
52.5°	1065.7	1044.8	927.9	750.3	593.8	484.0	409.1	362.2	332.3	317.2	314.9
55°	1124.6	1097.4	975.6	786.0	614.7	498.7	417.6	364.5	331.9	316.3	314.1
57.5°	1168.8	1142.9	1010.4	811.5	630.3	508.6	422.5	364.0	329.2	312.3	309.6
60°	1198.7	1170.1	1030.9	824.0	635.7	511.7	422.5	360.0	322.5	304.2	301.6
62°	1209.8	1176.8	1035.0	825.7	633.5	508.6	419.3	353.3	313.6	295.8	293.1
62.5°	1210.3	1176.4	1033.6	824.4	632.1	507.2	417.6	351.1	311.4	293.1	290.4
65°	1190.7	1156.7	1017.6	810.6	617.0	495.2	405.1	338.1	295.8	277.9	275.2
67.5°	1134.4	1108.6	979.2	778.5	591.1	472.9	386.8	319.4	277.5	258.7	257.4
70°	1056.4	1032.7	916.7	729.8	553.6	440.8	359.6	294.4	254.3	237.3	234.2
72.5°	958.2	927.4	828.0	664.7	499.6	396.6	323.9	263.2	227.5	212.3	210.6
75°	836.4	799.4	716.4	578.6	435.0	343.5	282.4	228.4	196.7	183.8	185.1
77.5°	681.2	663.8	579.0	461.3	354.2	284.2	231.5	193.6	166.4	155.7	154.8
80°	514.4	497.9	438.5	350.2	267.7	215.0	179.3	152.6	133.8	124.5	124.0
82.5°	348.9	333.2	288.2	235.1	182.5	152.1	129.8	112.4	100.8	96.4	96.4
85°	191.8	178.4	152.6	127.1	103.0	87.0	83.9	74.9	71.8	70.9	71.8
87.5°	59.8	59.3	50.4	41.5	36.1	36.6	33.0	33.9	32.1	31.7	33.9
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)