

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: P675327

Luminaire Tested: **CCW-SA-2A-835-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675327  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-835-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T4W distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

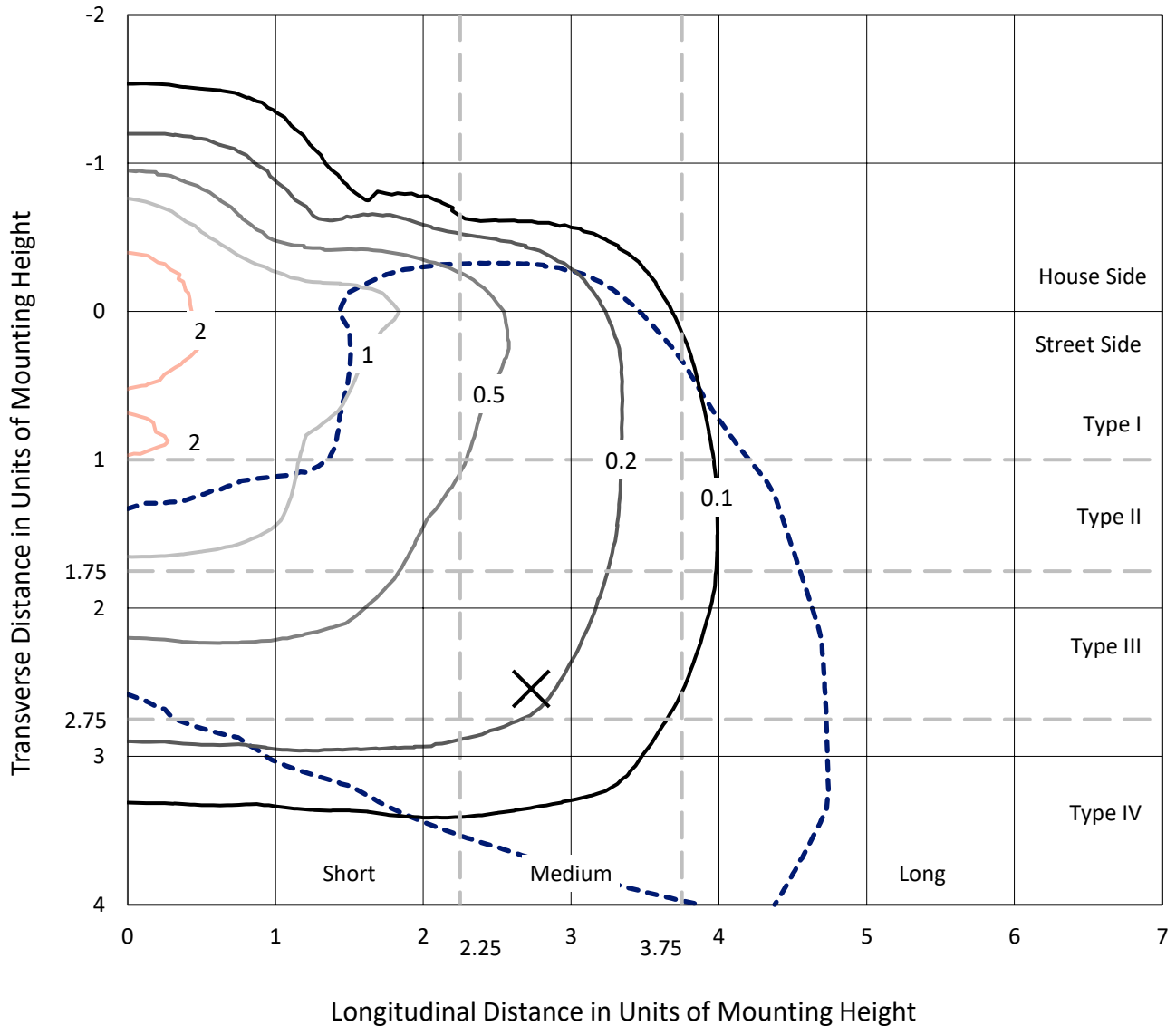
Lumens per Lamp: N/A  
Luminaire Lumens: 4548.4 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

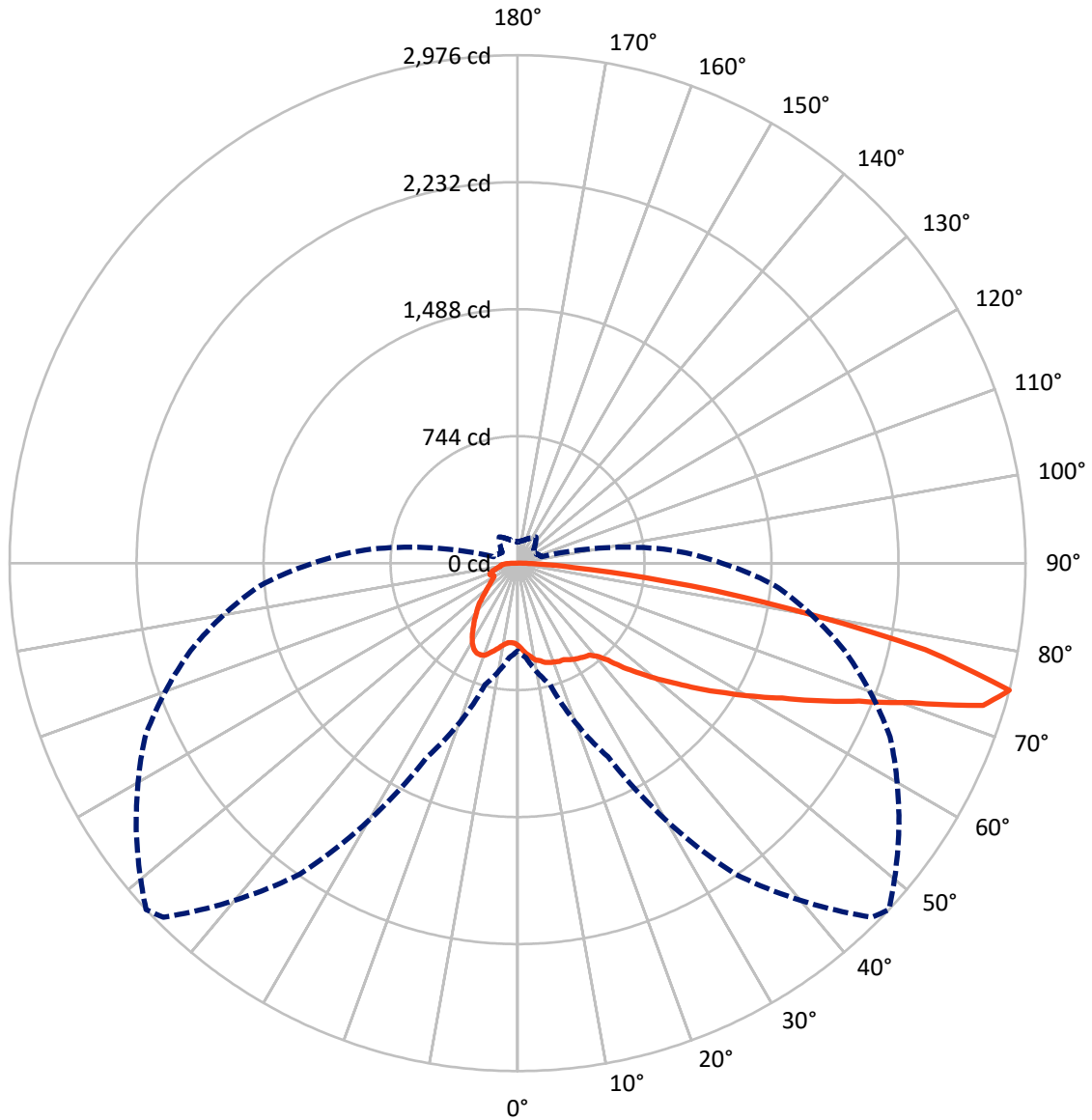
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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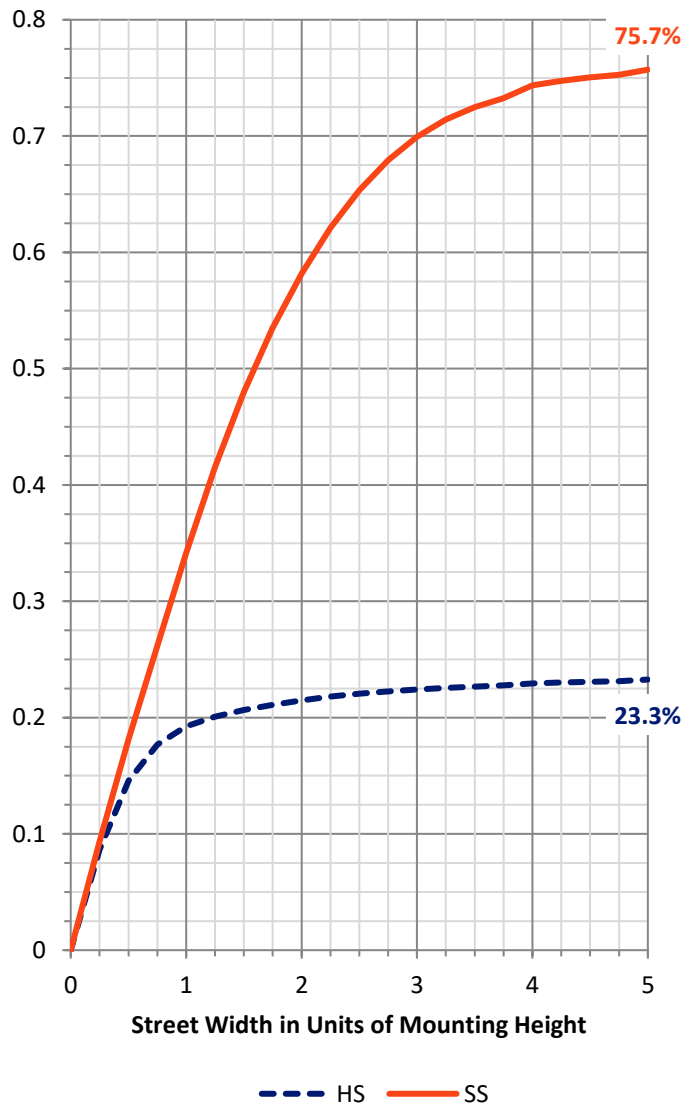
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1087.7	0.0	1087.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3460.7	0.0	3460.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	4548.4	0.0	4548.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	1.1
10°-20°	162.1	3.6
20°-30°	277.7	6.1
30°-40°	388.6	8.5
40°-50°	541.8	11.9
50°-60°	809.8	17.8
60°-70°	1167.5	25.7
70°-80°	993.8	21.8
80°-90°	158.3	3.5
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°	4548.4	100.0
0°-180°	4548.4	100.0



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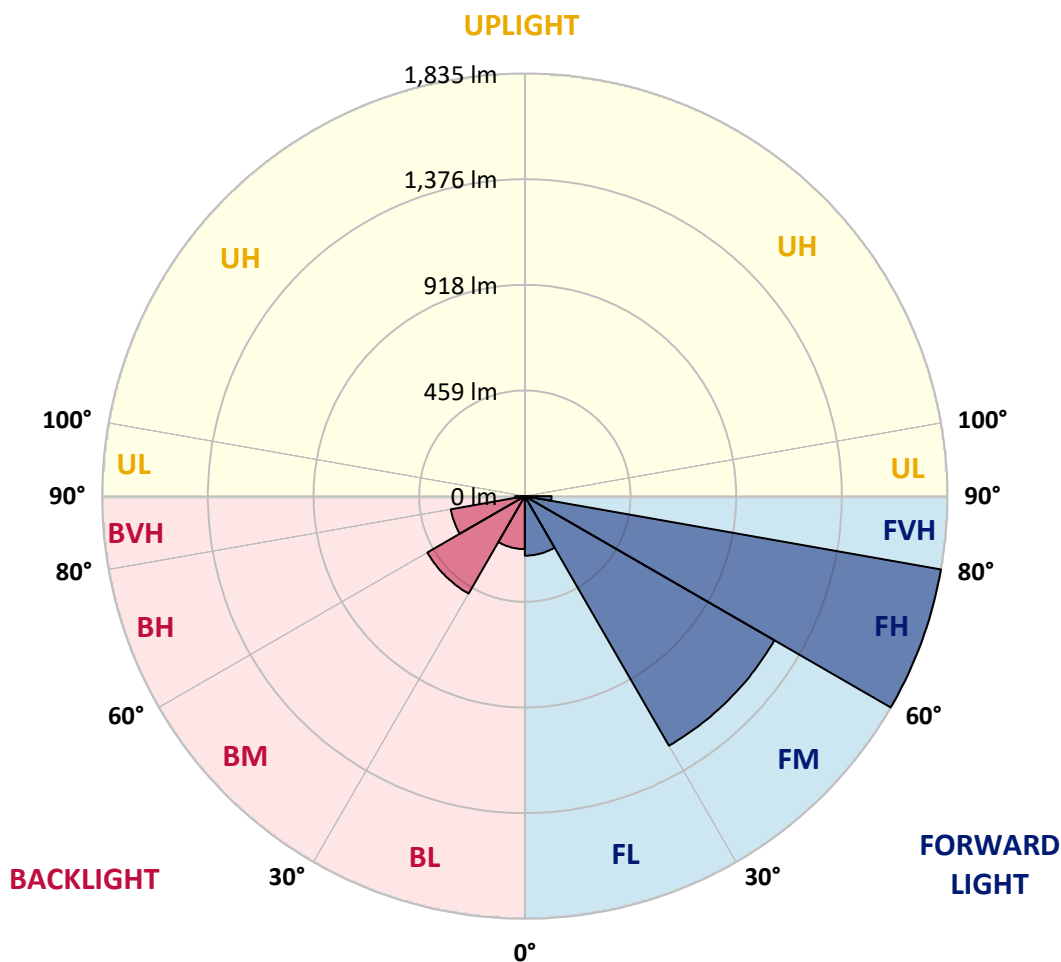
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.4	5.7			
FM (30°-60°)	1251.2	27.5			
FH (60°-80°)	1835.0	40.3			G2/5000
FVH (80°-90°)	116.0	2.6			G2/225
BL (0°-30°)	230.2	5.1	B1/500		
BM (30°-60°)	488.9	10.7	B1/1000		
BH (60°-80°)	326.3	7.2	B1/500		G1/500
BVH (80°-90°)	42.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	517.8	519.5	519.5	516.1	512.8	506.2	506.2	499.5	496.2	487.9	484.6
5°	565.9	560.9	556.0	554.3	546.0	534.4	532.7	526.1	507.8	499.5	487.9
7.5°	600.8	599.1	597.5	590.8	575.9	557.6	552.6	542.7	524.4	507.8	494.6
10°	629.0	635.6	629.0	614.1	599.1	579.2	577.5	559.3	542.7	522.8	506.2
12.5°	660.5	662.2	650.6	632.3	609.1	592.5	585.8	579.2	560.9	544.3	519.5
15°	682.1	678.8	670.5	645.6	619.0	602.4	604.1	595.8	575.9	564.3	537.7
17.5°	682.1	682.1	668.8	650.6	627.3	612.4	612.4	607.4	594.1	577.5	559.3
20°	668.8	668.8	660.5	650.6	624.0	620.7	617.4	614.1	614.1	599.1	572.6
22.5°	652.2	648.9	652.2	635.6	617.4	620.7	625.7	624.0	619.0	605.8	587.5
25°	635.6	637.3	640.6	629.0	612.4	627.3	625.7	634.0	630.6	620.7	605.8
27.5°	634.0	637.3	638.9	627.3	620.7	634.0	640.6	648.9	650.6	640.6	622.4
30°	658.9	657.2	655.5	640.6	635.6	647.2	653.9	665.5	675.5	653.9	638.9
32.5°	723.6	713.6	703.7	663.8	648.9	657.2	663.8	680.4	682.1	670.5	648.9
35°	826.5	819.8	786.7	716.9	675.5	667.2	673.8	685.4	688.7	680.4	663.8
37.5°	944.3	941.0	894.5	809.9	730.2	690.4	683.8	700.4	713.6	695.4	672.1
40°	1060.5	1047.2	1014.0	931.0	799.9	725.2	716.9	725.2	730.2	716.9	702.0
42.5°	1165.0	1150.1	1141.8	1058.8	891.2	783.3	776.7	756.8	771.7	755.1	735.2
45°	1253.0	1249.7	1246.4	1175.0	995.8	877.9	873.0	821.5	838.1	824.8	796.6
47.5°	1316.1	1331.0	1326.0	1286.2	1115.3	979.2	964.2	897.8	922.7	909.5	881.2
50°	1390.7	1399.0	1394.1	1367.5	1226.4	1095.3	1067.1	999.1	1027.3	1025.6	1010.7
52.5°	1457.1	1482.0	1453.8	1452.2	1385.8	1221.5	1173.3	1108.6	1155.1	1173.3	1171.7
55°	1535.1	1555.0	1546.8	1543.4	1528.5	1344.3	1301.1	1223.1	1301.1	1327.7	1350.9
57.5°	1601.5	1599.9	1631.4	1669.6	1687.8	1485.3	1433.9	1342.6	1460.5	1490.3	1555.0
60°	1631.4	1659.6	1712.7	1809.0	1860.4	1636.4	1583.3	1510.2	1621.4	1644.7	1764.2
62.5°	1651.3	1676.2	1779.1	1941.7	1971.6	1790.7	1740.9	1667.9	1797.4	1813.9	1991.5
65°	1596.5	1619.8	1823.9	1991.5	2097.7	1956.7	1945.1	1868.7	1973.3	1983.2	2230.5
67.5°	1533.5	1558.4	1785.7	2054.6	2265.4	2177.4	2159.1	2067.9	2147.5	2135.9	2413.1
70°	1422.3	1455.5	1687.8	2109.4	2451.2	2486.1	2449.6	2320.1	2328.4	2218.9	2421.4
72.5°	1083.7	1105.3	1321.0	1891.9	2537.5	2914.3	2851.2	2592.3	2497.7	2235.5	2137.6
75°	514.5	554.3	736.9	1251.3	2223.9	2934.2	2975.7	2726.7	2408.1	1983.2	1515.2
77.5°	149.4	149.4	224.0	531.1	1394.1	2364.9	2442.9	2315.1	1986.5	1468.7	796.6
80°	81.3	86.3	117.8	187.5	612.4	1492.0	1604.8	1535.1	1170.0	580.9	205.8
82.5°	46.5	48.1	78.0	112.9	278.8	811.5	877.9	796.6	444.8	175.9	96.3
85°	26.6	28.2	44.8	74.7	166.0	298.7	325.3	282.1	179.2	117.8	48.1
87.5°	13.3	13.3	21.6	34.9	84.6	84.6	83.0	101.2	107.9	71.4	21.6
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°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	482.9	481.3	481.3	474.6	473.0	468.0	468.0	464.7	463.0	468.0	468.0
5°	484.6	476.3	474.6	468.0	469.7	466.3	473.0	469.7	468.0	468.0	466.3
7.5°	487.9	479.6	473.0	468.0	466.3	471.3	479.6	479.6	489.6	484.6	484.6
10°	496.2	491.2	482.9	479.6	479.6	484.6	494.6	501.2	509.5	509.5	504.5
12.5°	516.1	507.8	497.9	492.9	499.5	504.5	514.5	521.1	531.1	534.4	531.1
15°	531.1	522.8	519.5	516.1	521.1	527.8	536.1	542.7	554.3	557.6	556.0
17.5°	551.0	541.0	539.4	541.0	544.3	549.3	554.3	559.3	567.6	567.6	567.6
20°	560.9	557.6	556.0	560.9	567.6	574.2	570.9	567.6	565.9	569.2	567.6
22.5°	579.2	575.9	577.5	582.5	582.5	579.2	574.2	562.6	559.3	562.6	559.3
25°	595.8	592.5	592.5	589.2	587.5	575.9	565.9	556.0	544.3	549.3	547.7
27.5°	612.4	610.7	610.7	597.5	580.9	560.9	547.7	536.1	529.4	537.7	532.7
30°	632.3	634.0	625.7	594.1	554.3	532.7	517.8	516.1	514.5	519.5	517.8
32.5°	650.6	652.2	638.9	589.2	534.4	492.9	478.0	479.6	487.9	496.2	504.5
35°	660.5	668.8	652.2	572.6	494.6	448.1	431.5	446.4	461.4	473.0	481.3
37.5°	678.8	700.4	672.1	554.3	459.7	408.3	396.6	401.6	419.9	438.1	446.4
40°	705.3	730.2	677.1	519.5	413.2	368.4	361.8	363.5	370.1	381.7	390.0
42.5°	751.8	778.4	682.1	474.6	366.8	343.5	325.3	320.3	315.3	315.3	313.7
45°	819.8	844.7	675.5	418.2	320.3	303.7	290.4	278.8	265.5	244.0	247.3
47.5°	919.4	939.3	680.4	368.4	277.2	263.9	253.9	240.6	220.7	197.5	195.8
50°	1070.4	1040.6	673.8	317.0	245.6	234.0	225.7	207.5	184.2	167.6	166.0
52.5°	1246.4	1186.6	667.2	273.8	219.1	209.1	202.5	182.6	161.0	152.7	151.0
55°	1458.8	1372.5	677.1	235.7	199.2	190.9	184.2	166.0	149.4	142.7	141.1
57.5°	1709.4	1573.3	731.9	205.8	177.6	174.3	172.6	157.7	142.7	137.7	136.1
60°	1945.1	1765.8	768.4	184.2	157.7	161.0	164.3	157.7	141.1	137.7	137.7
62.5°	2142.5	1925.1	710.3	166.0	147.7	157.7	172.6	167.6	161.0	164.3	161.0
65°	2316.8	1979.9	531.1	156.0	142.7	166.0	190.9	189.2	174.3	177.6	175.9
67.5°	2346.7	1913.5	346.9	147.7	139.4	182.6	214.1	194.2	164.3	164.3	159.3
70°	2222.2	1735.9	232.3	139.4	137.7	182.6	219.1	182.6	154.3	154.3	147.7
72.5°	1823.9	1387.4	179.2	131.1	126.1	162.6	207.5	172.6	144.4	141.1	129.4
75°	1198.2	894.5	146.0	124.5	109.5	142.7	187.5	159.3	137.7	127.8	122.8
77.5°	587.5	401.6	122.8	109.5	94.6	124.5	170.9	151.0	129.4	119.5	116.2
80°	161.0	144.4	102.9	96.3	79.7	107.9	161.0	144.4	121.2	111.2	106.2
82.5°	91.3	89.6	83.0	78.0	66.4	107.9	162.6	144.4	114.5	112.9	96.3
85°	49.8	53.1	59.7	58.1	51.4	96.3	154.3	126.1	92.9	78.0	78.0
87.5°	19.9	24.9	29.9	33.2	34.9	71.4	116.2	96.3	71.4	59.7	59.7
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)