

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: P675338

Luminaire Tested: **CCW-SA-2A-840-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675338  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-840-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T4W distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

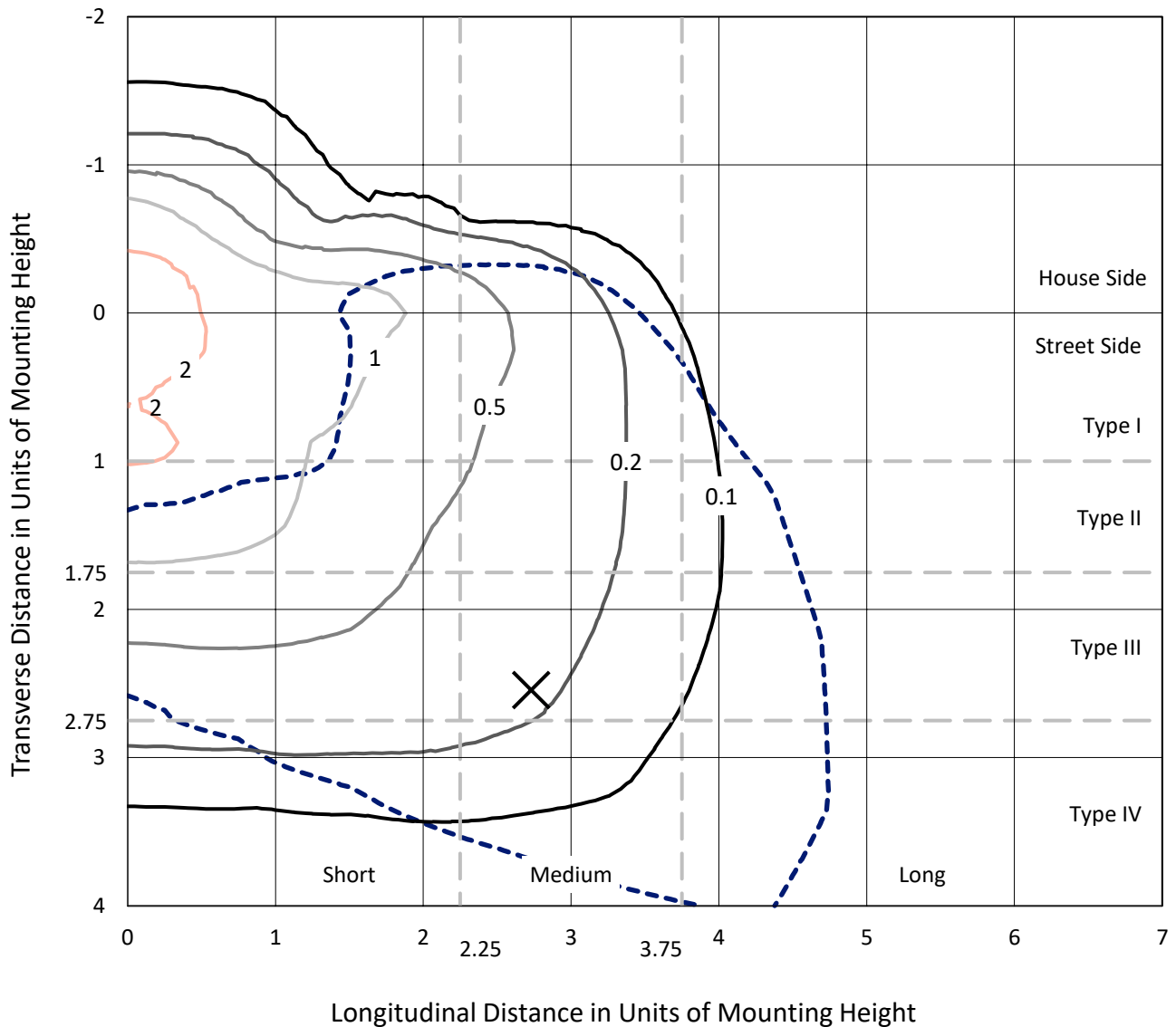
Lumens per Lamp: N/A  
Luminaire Lumens: 4706.3 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

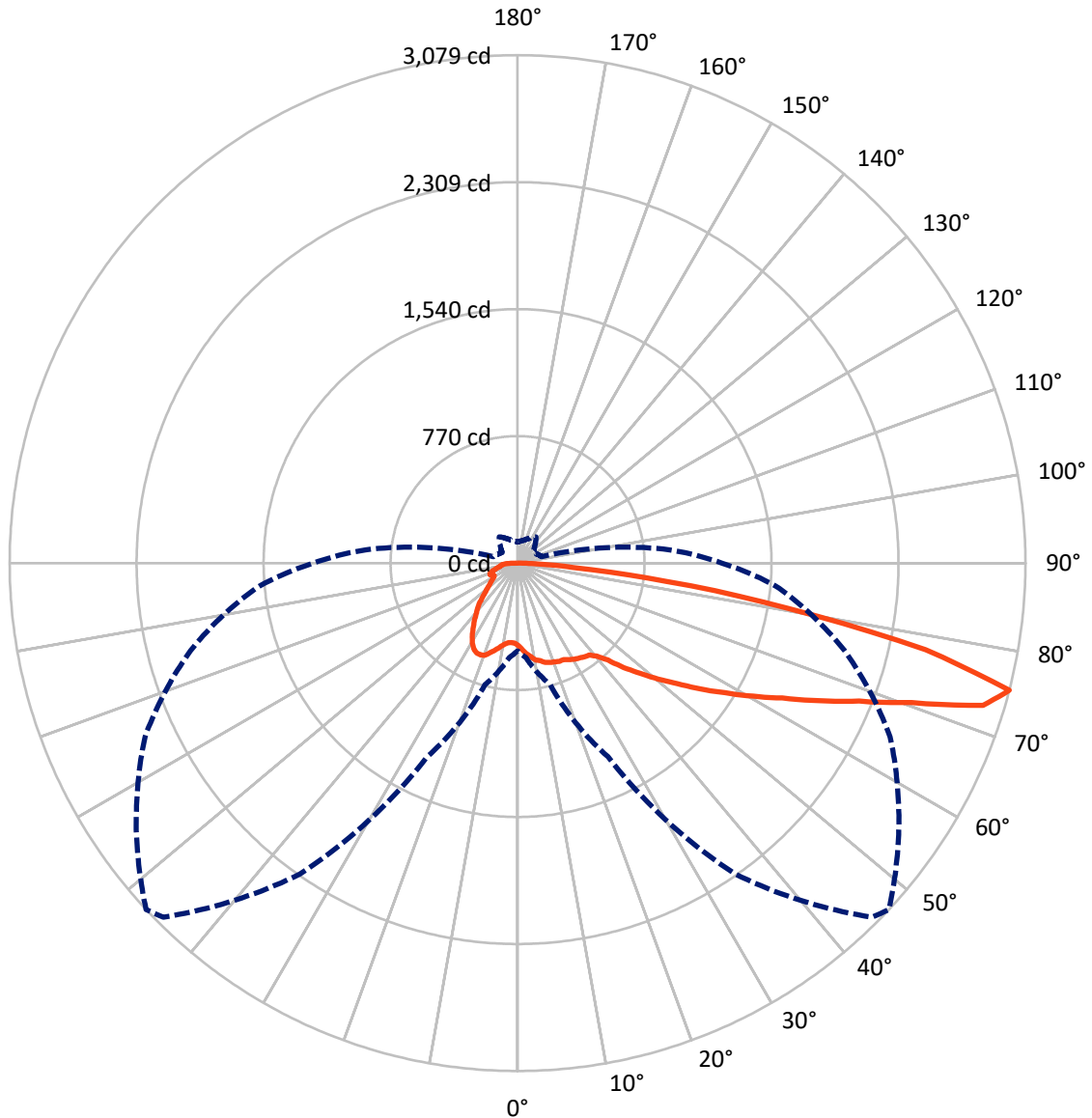
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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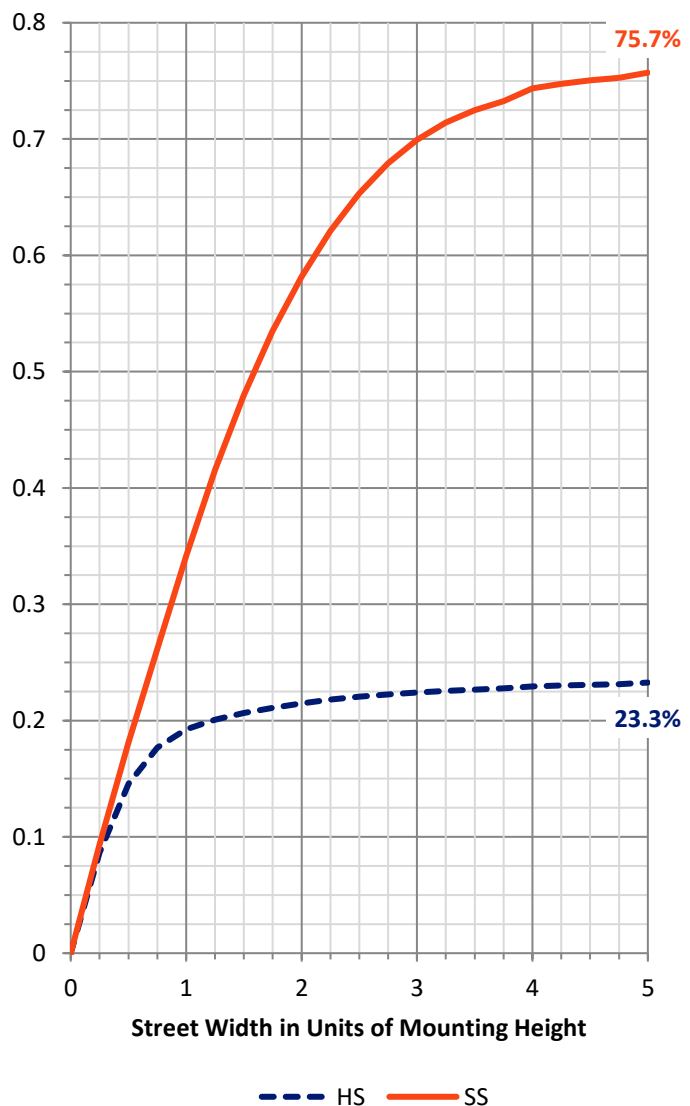
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1125.5	0.0	1125.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3580.8	0.0	3580.8
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	4706.3	0.0	4706.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	167.8	3.6
20°-30°	287.3	6.1
30°-40°	402.0	8.5
40°-50°	560.6	11.9
50°-60°	837.9	17.8
60°-70°	1208.0	25.7
70°-80°	1028.3	21.8
80°-90°	163.8	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°	4706.3	100.0
0°-180°	4706.3	100.0



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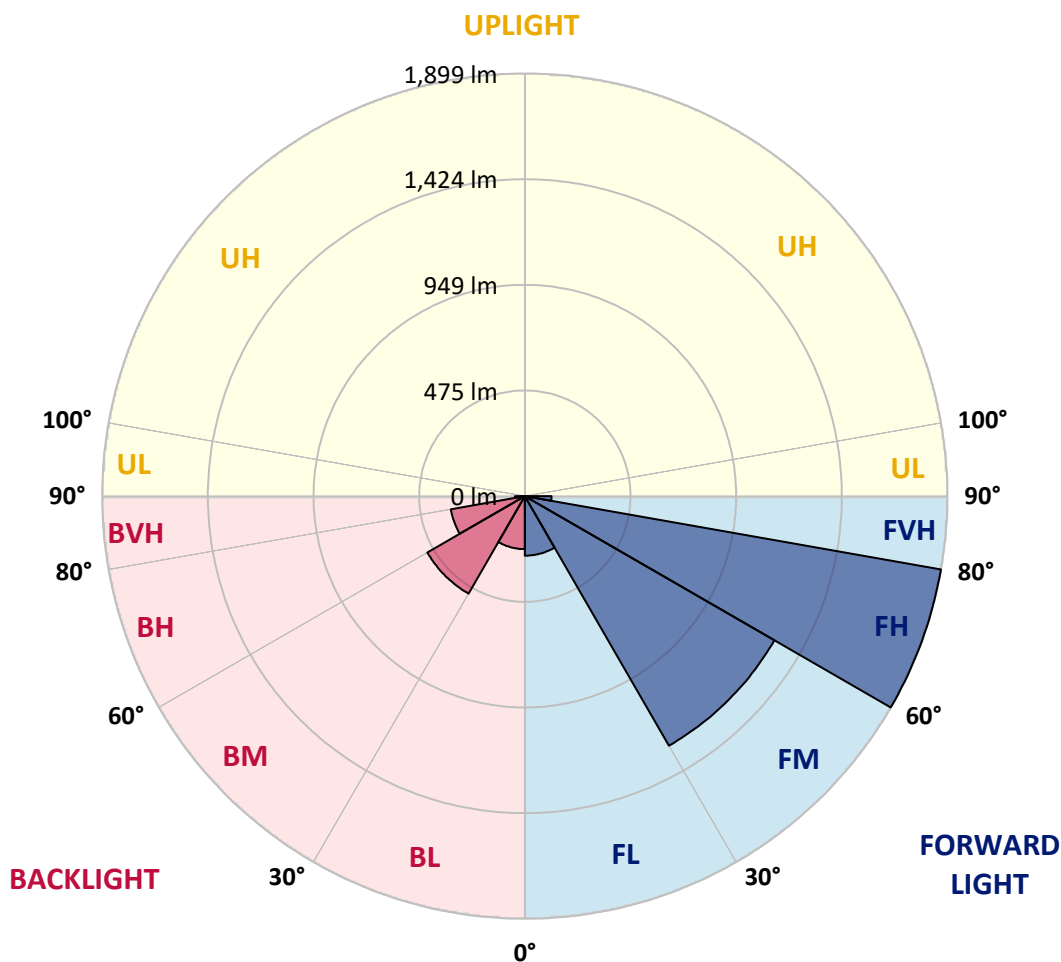
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.4	5.7			
FM (30°-60°)	1294.7	27.5			
FH (60°-80°)	1898.7	40.3			G2/5000
FVH (80°-90°)	120.0	2.6			G2/225
BL (0°-30°)	238.2	5.1	B1/500		
BM (30°-60°)	505.8	10.7	B1/1000		
BH (60°-80°)	337.6	7.2	B1/500		G1/500
BVH (80°-90°)	43.8	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°	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7
2.5°	535.8	537.5	537.5	534.1	530.6	523.7	523.7	516.9	513.4	504.9	501.4
5°	585.6	580.4	575.3	573.5	565.0	552.9	551.2	544.4	525.5	516.9	504.9
7.5°	621.6	619.9	618.2	611.3	595.9	577.0	571.8	561.5	542.6	525.5	511.7
10°	650.8	657.7	650.8	635.4	619.9	599.3	597.6	578.7	561.5	540.9	523.7
12.5°	683.4	685.2	673.1	654.3	630.2	613.0	606.2	599.3	580.4	563.2	537.5
15°	705.8	702.3	693.8	668.0	640.5	623.3	625.1	616.5	595.9	583.9	556.4
17.5°	705.8	705.8	692.0	673.1	649.1	633.6	633.6	628.5	614.8	597.6	578.7
20°	692.0	692.0	683.4	673.1	645.7	642.2	638.8	635.4	635.4	619.9	592.4
22.5°	674.9	671.4	674.9	657.7	638.8	642.2	647.4	645.7	640.5	626.8	607.9
25°	657.7	659.4	662.8	650.8	633.6	649.1	647.4	656.0	652.5	642.2	626.8
27.5°	656.0	659.4	661.1	649.1	642.2	656.0	662.8	671.4	673.1	662.8	644.0
30°	681.7	680.0	678.3	662.8	657.7	669.7	676.6	688.6	698.9	676.6	661.1
32.5°	748.7	738.4	728.1	686.9	671.4	680.0	686.9	704.1	705.8	693.8	671.4
35°	855.2	848.3	814.0	741.8	698.9	690.3	697.2	709.2	712.6	704.1	686.9
37.5°	977.1	973.7	925.6	838.0	755.6	714.4	707.5	724.7	738.4	719.5	695.5
40°	1097.3	1083.6	1049.2	963.4	827.7	750.4	741.8	750.4	755.6	741.8	726.4
42.5°	1205.5	1190.0	1181.4	1095.6	922.1	810.5	803.7	783.0	798.5	781.3	760.7
45°	1296.5	1293.1	1289.6	1215.8	1030.3	908.4	903.3	850.0	867.2	853.5	824.3
47.5°	1361.7	1377.2	1372.0	1330.8	1154.0	1013.2	997.7	929.0	954.8	941.0	911.8
50°	1439.0	1447.6	1442.5	1415.0	1269.0	1133.4	1104.2	1033.8	1063.0	1061.2	1045.8
52.5°	1507.7	1533.5	1504.3	1502.6	1433.9	1263.9	1214.1	1147.1	1195.2	1214.1	1212.3
55°	1588.4	1609.0	1600.4	1597.0	1581.5	1390.9	1346.3	1265.6	1346.3	1373.8	1397.8
57.5°	1657.1	1655.4	1688.0	1727.5	1746.4	1536.9	1483.7	1389.2	1511.1	1542.1	1609.0
60°	1688.0	1717.2	1772.2	1871.8	1925.0	1693.2	1638.2	1562.7	1677.7	1701.8	1825.4
62.5°	1708.6	1734.4	1840.8	2009.1	2040.0	1852.9	1801.3	1725.8	1859.7	1876.9	2060.6
65°	1652.0	1676.0	1887.2	2060.6	2170.5	2024.6	2012.6	1933.6	2041.8	2052.1	2307.9
67.5°	1586.7	1612.5	1847.7	2125.9	2344.0	2253.0	2234.1	2139.6	2222.1	2210.0	2496.8
70°	1471.6	1506.0	1746.4	2182.6	2536.3	2572.4	2534.6	2400.7	2409.2	2295.9	2505.4
72.5°	1121.3	1143.7	1366.9	1957.6	2625.6	3015.4	2950.2	2682.3	2584.4	2313.1	2211.8
75°	532.3	573.5	762.4	1294.8	2301.1	3036.0	3079.0	2821.4	2491.7	2052.1	1567.8
77.5°	154.5	154.5	231.8	549.5	1442.5	2447.0	2527.7	2395.5	2055.5	1519.7	824.3
80°	84.1	89.3	121.9	194.0	633.6	1543.8	1660.5	1588.4	1210.6	601.0	212.9
82.5°	48.1	49.8	80.7	116.8	288.5	839.7	908.4	824.3	460.2	182.0	99.6
85°	27.5	29.2	46.4	77.3	171.7	309.1	336.6	291.9	185.5	121.9	49.8
87.5°	13.7	13.7	22.3	36.1	87.6	87.6	85.9	104.7	111.6	73.8	22.3
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°	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7
2.5°	499.7	498.0	498.0	491.1	489.4	484.3	484.3	480.8	479.1	484.3	484.3
5°	501.4	492.8	491.1	484.3	486.0	482.5	489.4	486.0	484.3	484.3	482.5
7.5°	504.9	496.3	489.4	484.3	482.5	487.7	496.3	496.3	506.6	501.4	501.4
10°	513.4	508.3	499.7	496.3	496.3	501.4	511.7	518.6	527.2	527.2	522.0
12.5°	534.1	525.5	515.2	510.0	516.9	522.0	532.3	539.2	549.5	552.9	549.5
15°	549.5	540.9	537.5	534.1	539.2	546.1	554.7	561.5	573.5	577.0	575.3
17.5°	570.1	559.8	558.1	559.8	563.2	568.4	573.5	578.7	587.3	587.3	587.3
20°	580.4	577.0	575.3	580.4	587.3	594.2	590.7	587.3	585.6	589.0	587.3
22.5°	599.3	595.9	597.6	602.7	602.7	599.3	594.2	582.1	578.7	582.1	578.7
25°	616.5	613.0	613.0	609.6	607.9	595.9	585.6	575.3	563.2	568.4	566.7
27.5°	633.6	631.9	631.9	618.2	601.0	580.4	566.7	554.7	547.8	556.4	551.2
30°	654.3	656.0	647.4	614.8	573.5	551.2	535.8	534.1	532.3	537.5	535.8
32.5°	673.1	674.9	661.1	609.6	552.9	510.0	494.6	496.3	504.9	513.4	522.0
35°	683.4	692.0	674.9	592.4	511.7	463.6	446.5	461.9	477.4	489.4	498.0
37.5°	702.3	724.7	695.5	573.5	475.7	422.4	410.4	415.6	434.5	453.3	461.9
40°	729.8	755.6	700.6	537.5	427.6	381.2	374.4	376.1	382.9	395.0	403.5
42.5°	777.9	805.4	705.8	491.1	379.5	355.5	336.6	331.4	326.3	326.3	324.6
45°	848.3	874.1	698.9	432.7	331.4	314.2	300.5	288.5	274.8	252.4	255.9
47.5°	951.3	971.9	704.1	381.2	286.8	273.0	262.7	249.0	228.4	204.3	202.6
50°	1107.6	1076.7	697.2	328.0	254.1	242.1	233.5	214.7	190.6	173.4	171.7
52.5°	1289.6	1227.8	690.3	283.3	226.7	216.4	209.5	188.9	166.6	158.0	156.3
55°	1509.4	1420.1	700.6	243.8	206.1	197.5	190.6	171.7	154.5	147.7	146.0
57.5°	1768.7	1627.9	757.3	212.9	183.7	180.3	178.6	163.1	147.7	142.5	140.8
60°	2012.6	1827.1	795.1	190.6	163.1	166.6	170.0	163.1	146.0	142.5	142.5
62.5°	2216.9	1992.0	735.0	171.7	152.8	163.1	178.6	173.4	166.6	170.0	166.6
65°	2397.2	2048.6	549.5	161.4	147.7	171.7	197.5	195.8	180.3	183.7	182.0
67.5°	2428.1	1979.9	358.9	152.8	144.2	188.9	221.5	200.9	170.0	170.0	164.9
70°	2299.3	1796.2	240.4	144.2	142.5	188.9	226.7	188.9	159.7	159.7	152.8
72.5°	1887.2	1435.6	185.5	135.7	130.5	168.3	214.7	178.6	149.4	146.0	133.9
75°	1239.8	925.6	151.1	128.8	113.3	147.7	194.0	164.9	142.5	132.2	127.1
77.5°	607.9	415.6	127.1	113.3	97.9	128.8	176.9	156.3	133.9	123.6	120.2
80°	166.6	149.4	106.5	99.6	82.4	111.6	166.6	149.4	125.4	115.1	109.9
82.5°	94.4	92.7	85.9	80.7	68.7	111.6	168.3	149.4	118.5	116.8	99.6
85°	51.5	55.0	61.8	60.1	53.2	99.6	159.7	130.5	96.2	80.7	80.7
87.5°	20.6	25.8	30.9	34.3	36.1	73.8	120.2	99.6	73.8	61.8	61.8
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)