

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: P676780

Luminaire Tested: **CCW-SA-2C-840-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676780  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-840-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

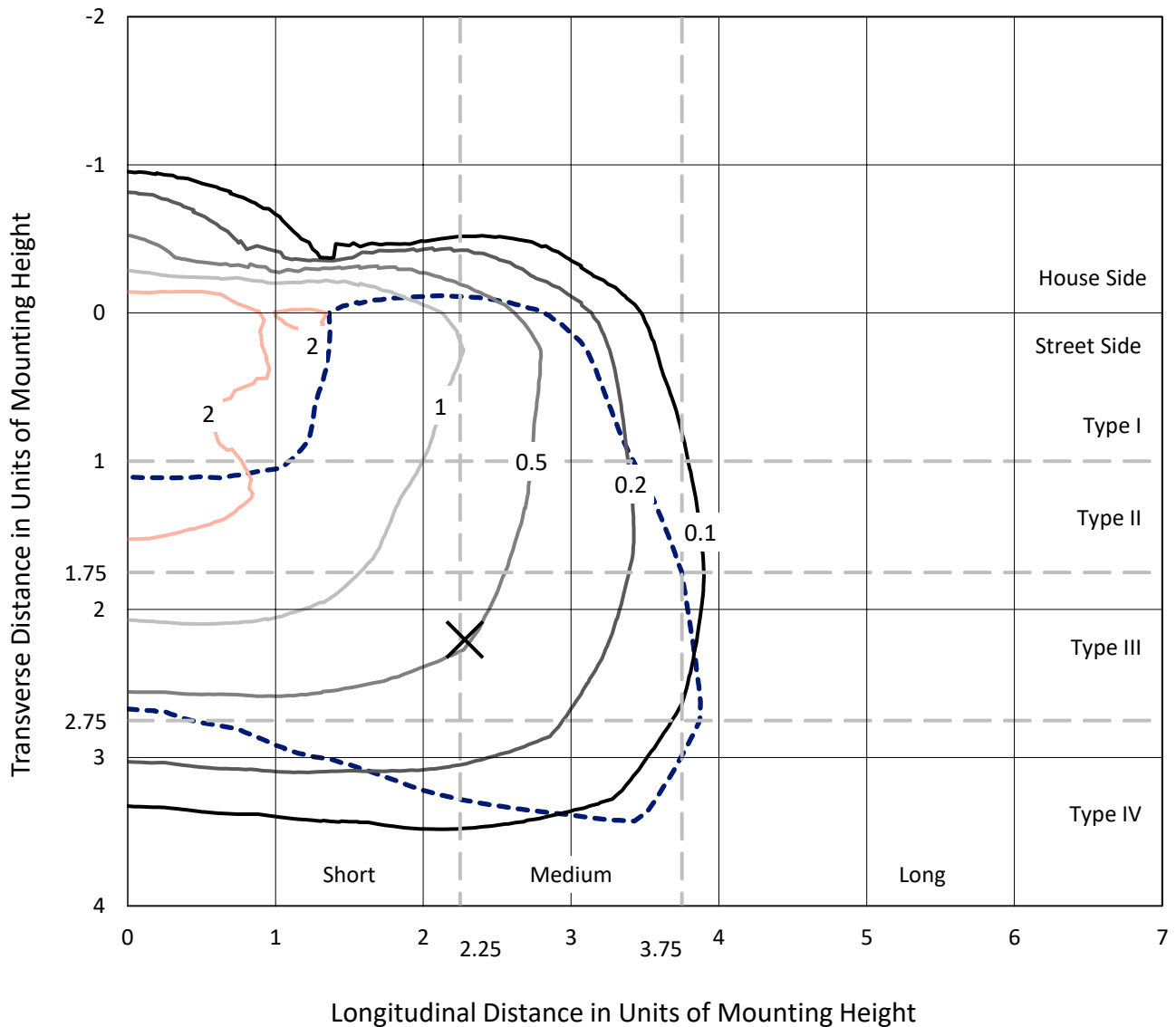
Lumens per Lamp: N/A  
Luminaire Lumens: 5561.7 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

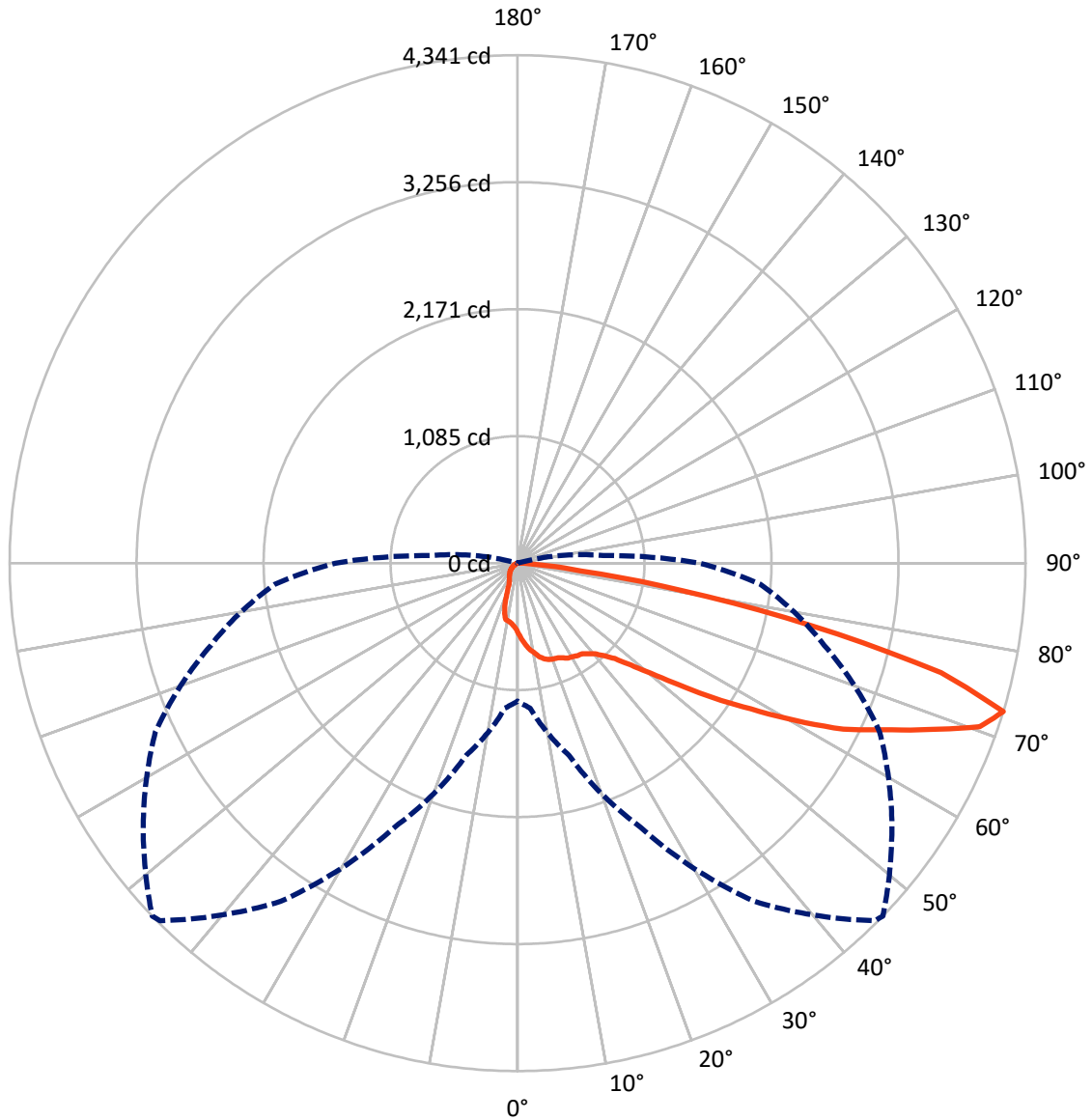
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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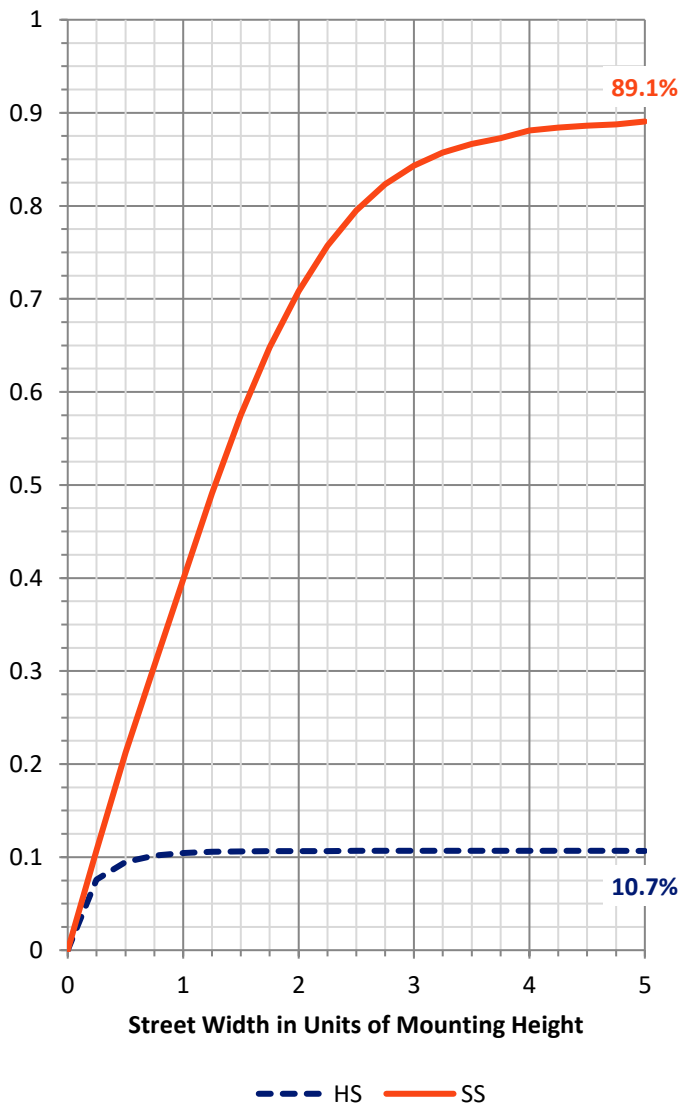
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	598.8	0.0	598.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4963.0	0.0	4963.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5561.7	0.0	5561.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	1.1
10°-20°	179.6	3.2
20°-30°	281.2	5.1
30°-40°	393.8	7.1
40°-50°	649.4	11.7
50°-60°	1167.2	21.0
60°-70°	1691.7	30.4
70°-80°	1055.8	19.0
80°-90°	83.7	1.5
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°	5561.7	100.0
0°-180°	5561.7	100.0



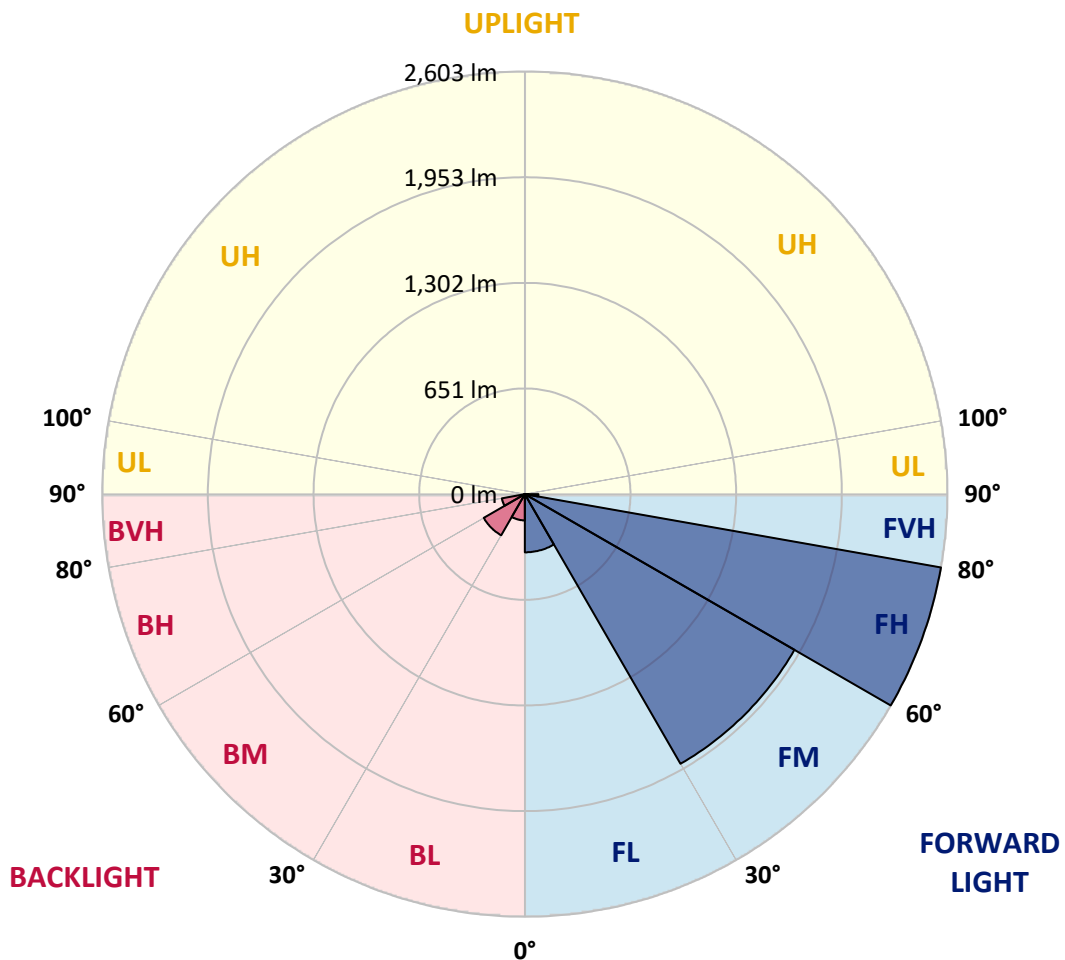
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.5	6.4			
FM (30°-60°)	1917.8	34.5			
FH (60°-80°)	2603.4	46.8			G2/5000
FVH (80°-90°)	83.2	1.5			G1/100
BL (0°-30°)	161.8	2.9	B1/500		
BM (30°-60°)	292.5	5.3	B1/1000		
BH (60°-80°)	144.0	2.6	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
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°	46°	55°	65°	75°	85°
0°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	665.3	662.5	666.8	665.3	648.3	651.2	649.7	638.4	618.5	607.2	600.1
5°	742.0	749.0	743.4	730.6	720.7	700.8	698.0	679.5	648.3	628.5	607.2
7.5°	821.4	821.4	810.1	790.2	768.9	747.6	744.8	713.6	686.6	652.6	622.8
10°	881.0	873.9	865.4	844.1	820.0	791.6	777.4	754.7	724.9	683.8	645.5
12.5°	933.5	922.1	907.9	876.7	848.4	817.1	820.0	783.1	763.2	726.4	669.6
15°	963.3	953.3	940.6	912.2	868.2	854.0	848.4	825.7	790.2	753.3	699.4
17.5°	970.4	963.3	946.2	909.4	885.2	868.2	866.8	839.8	824.2	793.0	733.4
20°	956.2	943.4	930.6	906.5	883.8	878.1	873.9	873.9	854.0	812.9	754.7
22.5°	932.1	917.9	910.8	896.6	878.1	876.7	879.6	876.7	861.1	834.2	777.4
25°	913.6	906.5	895.2	890.9	879.6	900.8	896.6	892.3	888.1	856.9	812.9
27.5°	919.3	917.9	909.4	892.3	883.8	906.5	919.3	920.7	919.3	888.1	845.5
30°	922.1	915.0	906.5	902.3	905.1	927.8	927.8	959.0	946.2	915.0	878.1
32.5°	954.8	950.5	922.1	912.2	913.6	940.6	942.0	973.2	968.9	947.7	906.5
35°	1024.3	995.9	954.8	926.4	926.4	961.8	950.5	995.9	1007.2	973.2	926.4
37.5°	1127.8	1106.5	1032.8	968.9	944.8	970.4	981.7	1007.2	1041.3	1011.5	966.1
40°	1333.5	1329.3	1224.3	1086.7	991.6	1014.3	1018.6	1058.3	1081.0	1039.9	1027.1
42.5°	1634.3	1613.0	1515.1	1298.1	1076.8	1066.8	1082.4	1108.0	1161.9	1127.8	1096.6
45°	1927.9	1918.0	1820.1	1577.5	1231.4	1171.8	1163.3	1208.7	1288.1	1251.3	1227.1
47.5°	2140.7	2120.9	2065.6	1861.3	1458.4	1295.2	1300.9	1346.3	1447.0	1418.7	1425.7
50°	2303.9	2294.0	2235.8	2123.7	1744.9	1489.6	1478.2	1523.6	1659.8	1678.3	1698.1
52.5°	2482.6	2501.1	2423.1	2328.0	2084.0	1750.6	1725.1	1740.7	1916.6	1959.2	2014.5
55°	2654.3	2684.1	2606.1	2593.3	2438.7	2040.0	2035.8	1998.9	2225.9	2231.5	2261.3
57.5°	2766.4	2756.4	2750.8	2820.3	2793.3	2372.0	2350.7	2313.8	2519.5	2482.6	2572.0
60°	2774.9	2803.3	2898.3	3070.0	3118.2	2762.1	2730.9	2630.2	2773.5	2685.5	2855.7
62.5°	2838.7	2861.4	3037.3	3274.3	3336.7	3105.4	3126.7	2871.4	2990.5	2921.0	3170.7
65°	2677.0	2747.9	3101.2	3433.1	3623.2	3453.0	3431.7	3182.0	3213.2	3148.0	3481.4
67.5°	2530.9	2557.8	2926.7	3481.4	3850.2	3802.0	3793.5	3457.3	3443.1	3322.5	3569.3
70°	2057.0	2089.7	2454.3	3234.5	3926.8	4209.1	4189.3	3843.1	3599.1	3227.4	3118.2
72.5°	1178.9	1244.2	1701.0	2491.2	3528.2	4322.6	4341.1	3905.6	3414.7	2713.9	2082.6
75°	385.9	404.3	706.5	1411.6	2638.7	3770.8	3738.1	3356.5	2755.0	1791.8	940.6
77.5°	130.5	133.4	208.5	510.7	1462.6	2547.9	2566.3	2398.9	1692.5	744.8	259.6
80°	66.7	70.9	102.1	191.5	601.5	1387.4	1417.2	1367.6	709.3	219.9	62.4
82.5°	31.2	32.6	59.6	106.4	275.2	544.8	544.8	598.7	251.1	123.4	25.5
85°	11.3	11.3	31.2	61.0	116.3	181.6	183.0	184.4	131.9	92.2	11.3
87.5°	4.3	4.3	15.6	25.5	42.6	55.3	55.3	44.0	66.7	61.0	4.3
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	597.3	588.7	581.6	571.7	558.9	551.9	553.3	544.8	544.8	540.5	539.1
5°	597.3	588.7	570.3	553.3	541.9	527.7	520.6	515.0	515.0	512.1	513.6
7.5°	601.5	588.7	563.2	540.5	522.1	507.9	496.5	495.1	492.3	485.2	490.9
10°	627.0	608.6	566.0	534.8	513.6	497.9	478.1	472.4	463.9	451.1	452.6
12.5°	648.3	624.2	585.9	543.3	516.4	490.9	445.5	395.8	374.5	351.8	353.2
15°	679.5	645.5	593.0	554.7	516.4	434.1	351.8	288.0	253.9	236.9	236.9
17.5°	696.6	668.2	612.9	561.8	475.2	353.2	249.7	194.4	188.7	191.5	191.5
20°	732.0	693.7	635.6	567.5	407.2	251.1	183.0	177.3	180.2	185.8	184.4
22.5°	754.7	716.4	652.6	541.9	314.9	180.2	171.7	168.8	171.7	178.8	178.8
25°	773.2	749.0	679.5	479.5	222.7	163.1	160.3	163.1	166.0	168.8	173.1
27.5°	818.6	777.4	698.0	398.6	160.3	151.8	154.6	156.1	156.1	160.3	161.7
30°	848.4	815.7	712.2	307.8	141.9	140.4	143.3	144.7	146.1	150.4	151.8
32.5°	876.7	865.4	693.7	208.5	133.4	130.5	129.1	130.5	136.2	140.4	139.0
35°	917.9	910.8	666.8	144.7	124.8	119.2	116.3	117.7	122.0	126.3	124.8
37.5°	967.5	974.6	601.5	126.3	116.3	109.2	103.6	103.6	105.0	109.2	110.7
40°	1025.7	1044.1	524.9	117.7	110.7	102.1	96.5	89.4	88.0	86.5	88.0
42.5°	1132.1	1153.4	438.4	112.1	102.1	92.2	83.7	75.2	68.1	63.8	63.8
45°	1281.0	1264.0	324.9	106.4	97.9	83.7	70.9	61.0	51.1	46.8	46.8
47.5°	1486.7	1428.6	222.7	100.7	90.8	73.8	59.6	46.8	38.3	34.0	34.0
50°	1771.9	1580.4	144.7	95.0	86.5	63.8	48.2	34.0	28.4	27.0	28.4
52.5°	2041.4	1735.0	114.9	88.0	78.0	55.3	36.9	28.4	25.5	24.1	24.1
55°	2289.7	1813.0	102.1	80.9	70.9	45.4	31.2	24.1	22.7	21.3	21.3
57.5°	2499.7	1840.0	88.0	70.9	56.7	35.5	25.5	21.3	18.4	17.0	17.0
60°	2681.3	1847.1	68.1	56.7	41.1	27.0	21.3	18.4	15.6	12.8	12.8
62.5°	2826.0	1797.4	48.2	39.7	28.4	21.3	18.4	12.8	8.5	5.7	4.3
65°	2940.9	1698.1	32.6	27.0	18.4	15.6	11.3	5.7	1.4	0.0	0.0
67.5°	2806.1	1472.6	25.5	19.9	12.8	9.9	5.7	1.4	0.0	0.0	0.0
70°	2288.3	1142.0	18.4	12.8	8.5	2.8	1.4	0.0	0.0	0.0	0.0
72.5°	1557.7	736.3	14.2	8.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0
75°	699.4	263.9	9.9	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	170.2	62.4	7.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.4	15.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)