

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: P675051

Luminaire Tested: **CCW-SA-2B-840-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675051  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-840-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T3 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

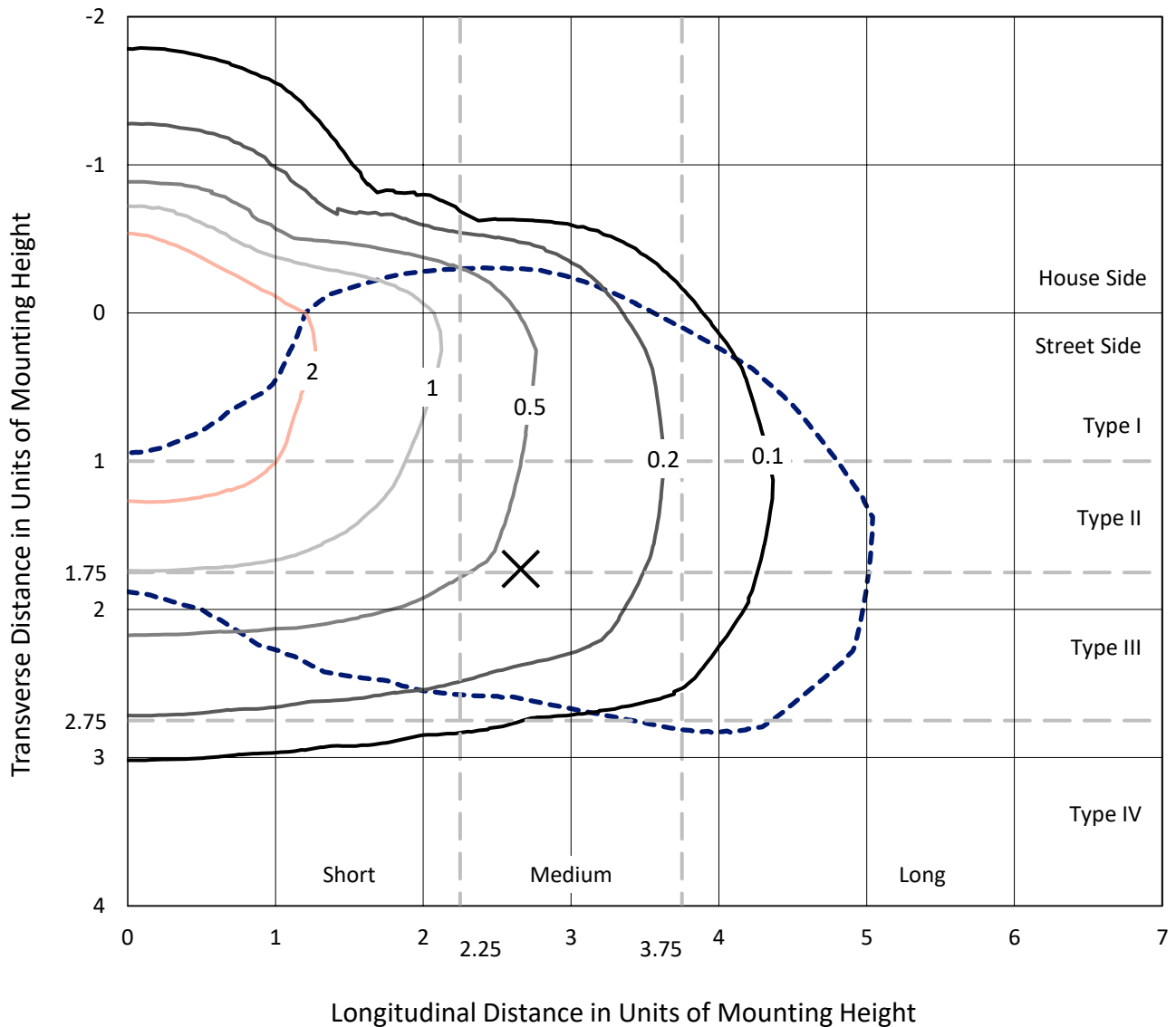
Lumens per Lamp: N/A  
Luminaire Lumens: 5949.4 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

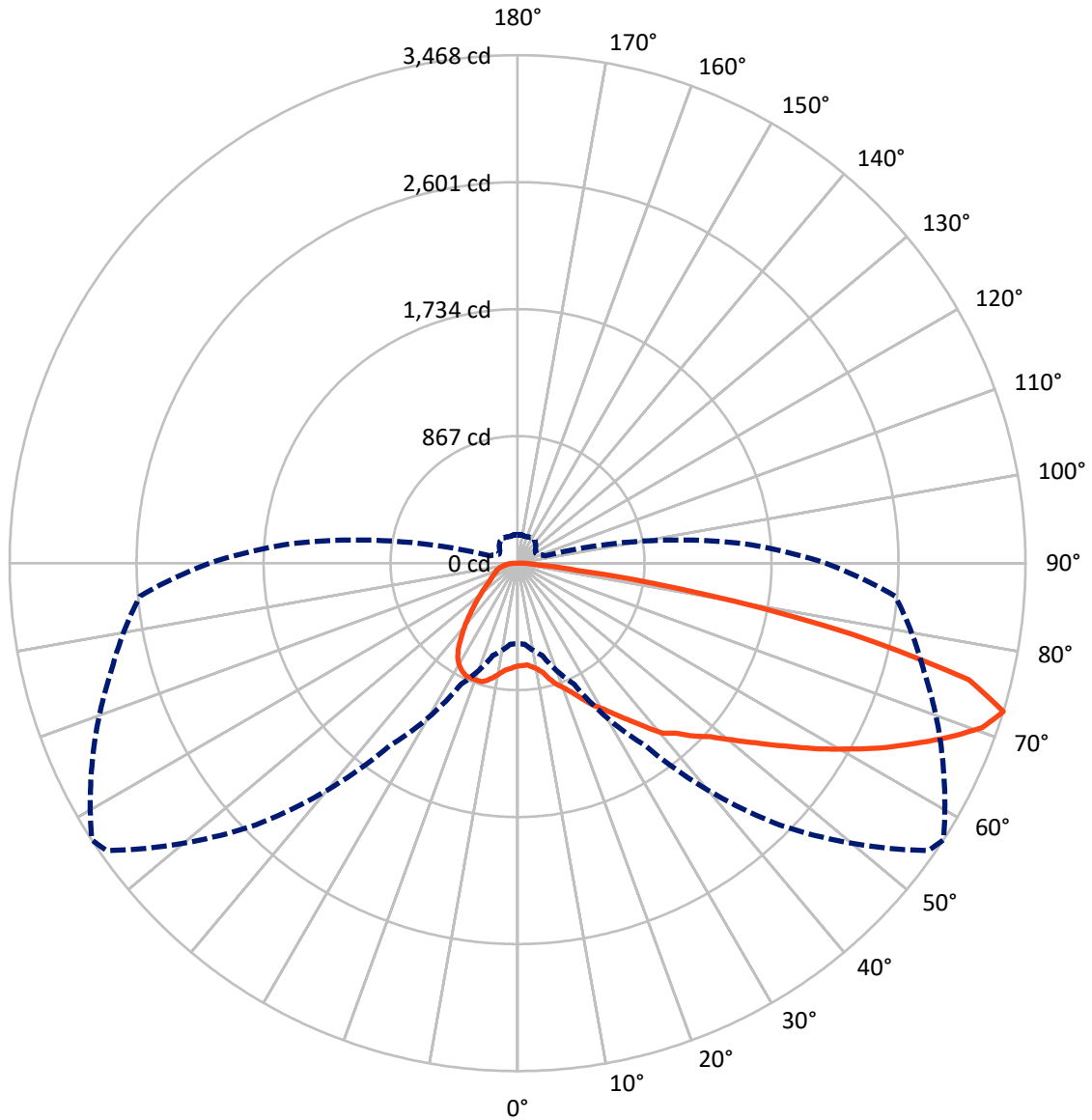
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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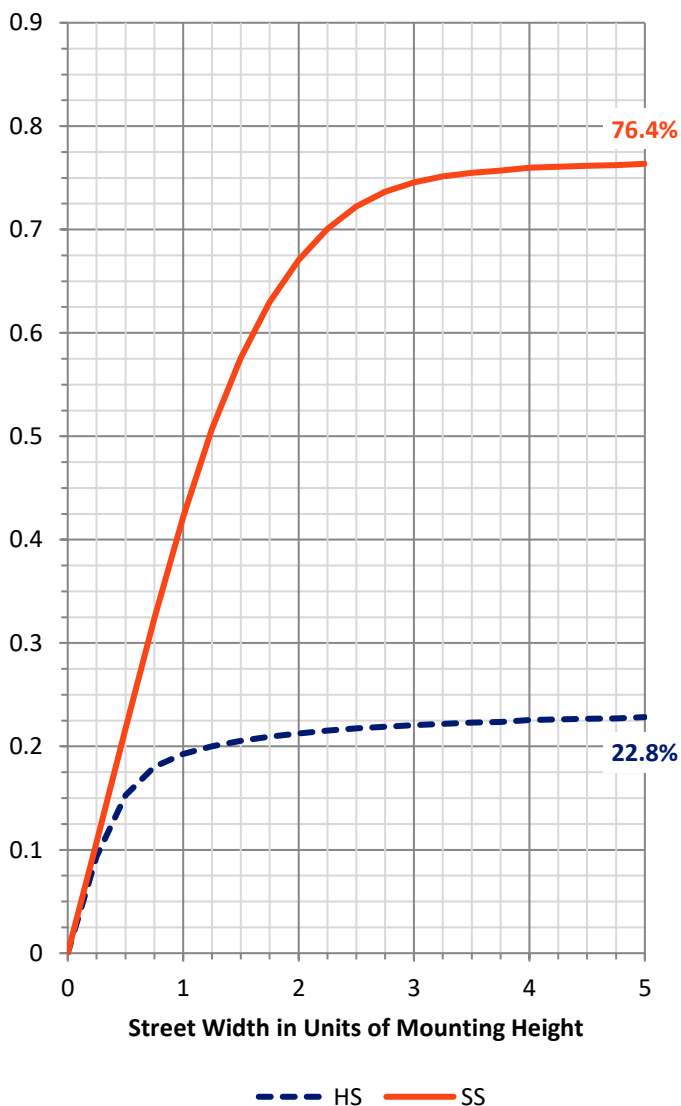
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1389.4	0.0	1389.4
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4560.0	0.0	4560.0
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	5949.4	0.0	5949.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.2
10°-20°	234.9	3.9
20°-30°	429.4	7.2
30°-40°	630.0	10.6
40°-50°	867.5	14.6
50°-60°	1189.6	20.0
60°-70°	1433.9	24.1
70°-80°	955.2	16.1
80°-90°	139.1	2.3
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°	5949.4	100.0
0°-180°	5949.4	100.0



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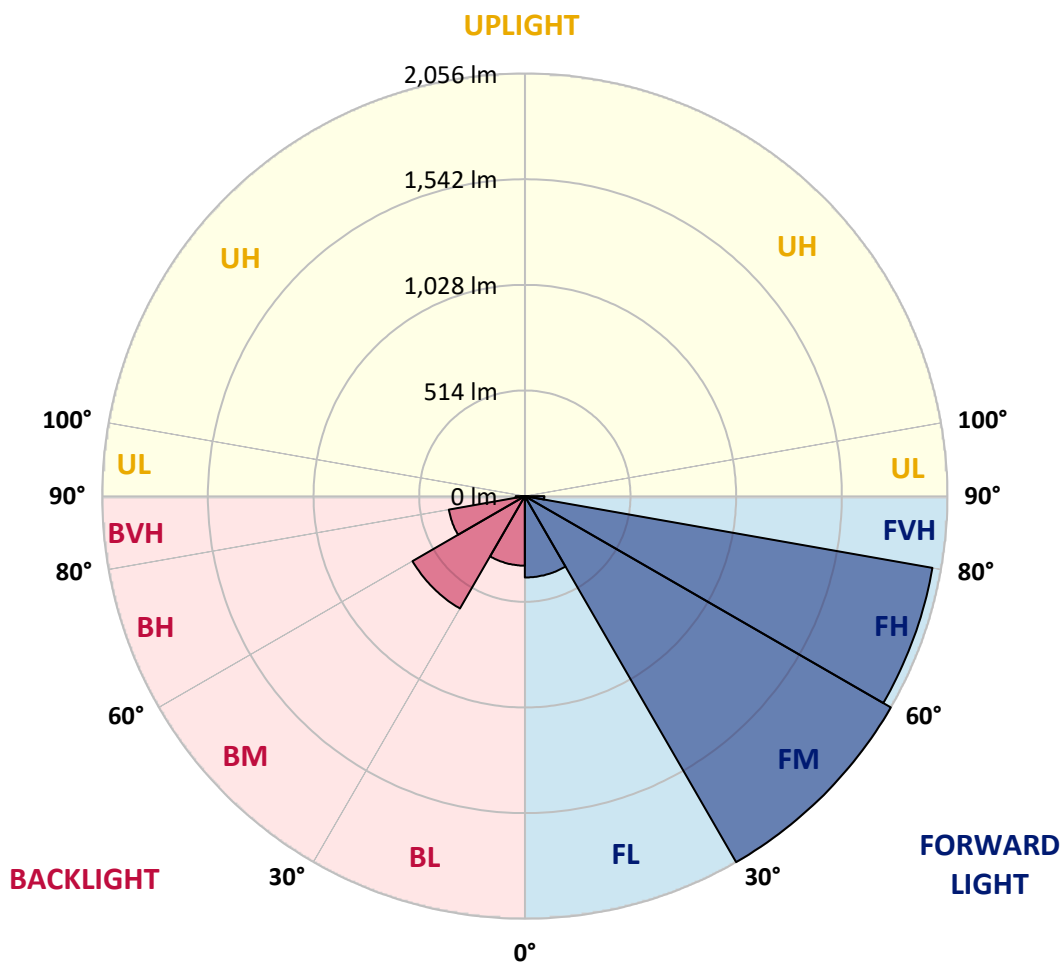
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.8	6.7			
FM	(30°-60°)	2056.0	34.6			
FH	(60°-80°)	2013.5	33.8			G2/5000
FVH	(80°-90°)	94.7	1.6			G1/100
BL	(0°-30°)	338.3	5.7	B1/500		
BM	(30°-60°)	631.1	10.6	B1/1000		
BH	(60°-80°)	375.7	6.3	B1/500		G1/500
BVH	(80°-90°)	44.4	0.7			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
2.5°	689.2	691.4	695.7	693.5	693.5	687.0	697.9	700.0	695.7	697.9	702.2
5°	689.2	693.5	700.0	695.7	697.9	695.7	691.4	697.9	697.9	700.0	706.6
7.5°	726.1	723.9	723.9	717.4	715.2	713.1	715.2	715.2	710.9	713.1	713.1
10°	767.2	767.2	762.9	762.9	758.6	747.7	736.9	734.7	728.2	730.4	730.4
12.5°	810.6	814.9	819.3	806.2	801.9	784.6	778.1	765.1	765.1	760.7	758.6
15°	864.8	858.3	862.6	858.3	847.4	830.1	819.3	821.4	806.2	801.9	795.4
17.5°	912.4	914.6	908.1	903.8	884.3	871.3	873.4	871.3	851.8	845.3	834.4
20°	968.8	966.6	966.6	953.6	936.3	918.9	912.4	910.3	914.6	901.6	875.6
22.5°	1027.3	1018.6	1018.6	1007.8	984.0	973.1	968.8	960.1	964.5	953.6	914.6
25°	1075.0	1075.0	1090.2	1068.5	1055.5	1033.8	1025.1	1027.3	1029.5	1007.8	962.3
27.5°	1137.9	1127.0	1142.2	1131.3	1124.8	1101.0	1090.2	1096.7	1092.3	1068.5	1005.6
30°	1218.0	1220.2	1211.5	1196.4	1187.7	1170.4	1163.9	1157.4	1163.9	1133.5	1053.3
32.5°	1317.7	1324.2	1302.6	1285.2	1270.1	1252.7	1239.7	1233.2	1239.7	1194.2	1090.2
35°	1432.6	1439.1	1421.8	1402.3	1384.9	1341.6	1330.7	1319.9	1296.1	1222.4	1124.8
37.5°	1538.8	1530.1	1525.8	1525.8	1493.3	1430.4	1423.9	1417.4	1371.9	1278.7	1172.5
40°	1610.3	1621.2	1616.8	1612.5	1608.2	1549.6	1536.6	1525.8	1449.9	1363.3	1239.7
42.5°	1690.5	1684.0	1701.4	1707.9	1692.7	1675.3	1623.3	1586.5	1519.3	1449.9	1339.4
45°	1785.9	1781.5	1788.1	1811.9	1790.2	1796.7	1710.0	1684.0	1599.5	1558.3	1465.1
47.5°	1870.4	1881.2	1913.8	1920.3	1902.9	1933.3	1811.9	1770.7	1716.5	1684.0	1595.2
50°	1907.3	1920.3	1993.9	2039.5	2041.6	2089.3	1913.8	1896.4	1822.7	1835.7	1757.7
52.5°	1876.9	1918.1	2007.0	2126.2	2199.8	2247.5	2048.1	2039.5	1972.3	2013.5	1935.4
55°	1905.1	1944.1	2002.6	2169.5	2355.9	2366.7	2234.5	2202.0	2134.8	2191.2	2119.7
57.5°	1918.1	1896.4	2007.0	2217.2	2470.8	2498.9	2412.2	2388.4	2336.4	2390.6	2349.4
60°	1816.2	1842.2	1946.3	2204.2	2477.3	2639.8	2611.6	2577.0	2529.3	2579.1	2555.3
62.5°	1701.4	1718.7	1831.4	2126.2	2514.1	2741.7	2804.5	2778.5	2711.3	2754.7	2795.9
65°	1556.1	1558.3	1684.0	1987.4	2442.6	2800.2	2973.6	2971.4	2923.7	2912.9	2977.9
67.5°	1378.4	1395.8	1495.5	1840.1	2345.1	2865.2	3140.5	3173.0	3077.6	2993.1	3016.9
70°	1057.7	1075.0	1170.4	1508.5	2145.7	2845.7	3346.4	3363.7	3177.3	2962.7	2902.1
72.5°	550.5	554.8	652.4	910.3	1521.5	2527.1	3422.2	3467.7	3203.3	2873.9	2587.8
75°	182.1	182.1	223.2	346.8	717.4	1616.8	3099.3	3181.6	3075.4	2652.8	2117.5
77.5°	108.4	110.5	132.2	173.4	286.1	645.9	2184.7	2329.9	2516.3	2256.2	1547.5
80°	78.0	80.2	99.7	119.2	171.2	208.1	1096.7	1298.2	1545.3	1452.1	825.8
82.5°	58.5	58.5	78.0	88.9	117.0	123.5	305.6	418.3	667.5	520.2	227.6
85°	60.7	60.7	60.7	62.9	80.2	71.5	127.9	136.5	195.1	171.2	62.9
87.5°	21.7	23.8	60.7	41.2	41.2	30.3	49.8	54.2	69.4	71.5	23.8
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°	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
2.5°	704.4	704.4	706.6	706.6	710.9	715.2	721.7	717.4	717.4	719.6	717.4
5°	702.2	704.4	710.9	721.7	726.1	728.2	741.2	741.2	741.2	745.6	745.6
7.5°	710.9	715.2	726.1	736.9	739.1	745.6	762.9	767.2	778.1	782.4	784.6
10°	732.6	739.1	747.7	760.7	769.4	778.1	791.1	806.2	804.1	817.1	819.3
12.5°	765.1	762.9	778.1	791.1	799.7	812.8	817.1	817.1	817.1	817.1	821.4
15°	791.1	795.4	808.4	817.1	827.9	825.8	817.1	808.4	810.6	808.4	808.4
17.5°	830.1	830.1	840.9	843.1	847.4	825.8	812.8	812.8	819.3	819.3	814.9
20°	869.1	866.9	871.3	869.1	840.9	814.9	812.8	814.9	817.1	814.9	812.8
22.5°	905.9	901.6	895.1	886.4	836.6	812.8	808.4	797.6	786.7	786.7	780.2
25°	938.5	934.1	916.8	890.8	834.4	799.7	778.1	752.1	739.1	732.6	741.2
27.5°	968.8	960.1	936.3	890.8	814.9	765.1	723.9	691.4	680.5	671.9	680.5
30°	1010.0	994.8	962.3	884.3	784.6	710.9	654.5	615.5	604.7	591.7	596.0
32.5°	1046.8	1012.1	984.0	864.8	745.6	650.2	585.2	546.2	526.7	515.8	524.5
35°	1085.8	1051.2	992.6	834.4	684.9	576.5	511.5	474.6	459.5	444.3	444.3
37.5°	1124.8	1105.3	1005.6	778.1	611.2	507.2	448.6	420.5	394.5	366.3	366.3
40°	1207.2	1181.2	1020.8	713.1	537.5	440.0	398.8	361.9	335.9	296.9	294.8
42.5°	1293.9	1237.5	1020.8	635.0	472.5	392.3	353.3	314.3	266.6	242.7	244.9
45°	1404.4	1339.4	992.6	565.7	407.5	353.3	309.9	260.1	238.4	223.2	223.2
47.5°	1543.1	1441.3	958.0	489.8	355.4	318.6	264.4	234.1	218.9	205.9	203.7
50°	1707.9	1534.5	914.6	424.8	312.1	286.1	240.6	216.7	203.7	195.1	195.1
52.5°	1881.2	1671.0	884.3	366.3	277.4	242.7	223.2	208.1	197.2	190.7	188.6
55°	2056.8	1807.6	862.6	303.4	244.9	223.2	218.9	205.9	201.6	195.1	190.7
57.5°	2254.0	1920.3	858.3	260.1	218.9	214.6	223.2	212.4	205.9	199.4	192.9
60°	2466.4	2072.0	819.3	225.4	205.9	210.2	216.7	205.9	201.6	195.1	190.7
62.5°	2676.7	2184.7	713.1	199.4	192.9	197.2	205.9	197.2	190.7	192.9	195.1
65°	2763.4	2193.3	552.7	179.9	177.7	179.9	192.9	190.7	184.2	197.2	197.2
67.5°	2676.7	2115.3	390.1	162.6	162.6	173.4	195.1	199.4	192.9	210.2	208.1
70°	2479.4	1922.4	264.4	151.7	156.0	184.2	201.6	197.2	188.6	210.2	205.9
72.5°	2104.5	1538.8	192.9	140.9	147.4	175.6	199.4	195.1	188.6	197.2	188.6
75°	1580.0	1094.5	151.7	127.9	130.0	158.2	205.9	195.1	177.7	173.4	166.9
77.5°	1055.5	676.2	117.0	112.7	112.7	138.7	197.2	182.1	160.4	153.9	151.7
80°	502.8	270.9	93.2	95.4	97.5	119.2	179.9	162.6	145.2	136.5	136.5
82.5°	160.4	101.9	78.0	78.0	78.0	97.5	149.5	136.5	125.7	119.2	108.4
85°	56.4	56.4	67.2	69.4	62.9	71.5	123.5	117.0	104.0	86.7	84.5
87.5°	21.7	32.5	45.5	54.2	39.0	49.8	88.9	82.4	75.9	56.4	54.2
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)