

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: P675387

Luminaire Tested: **CCW-SA-2E-727-U-SL2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675387  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-727-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SL2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

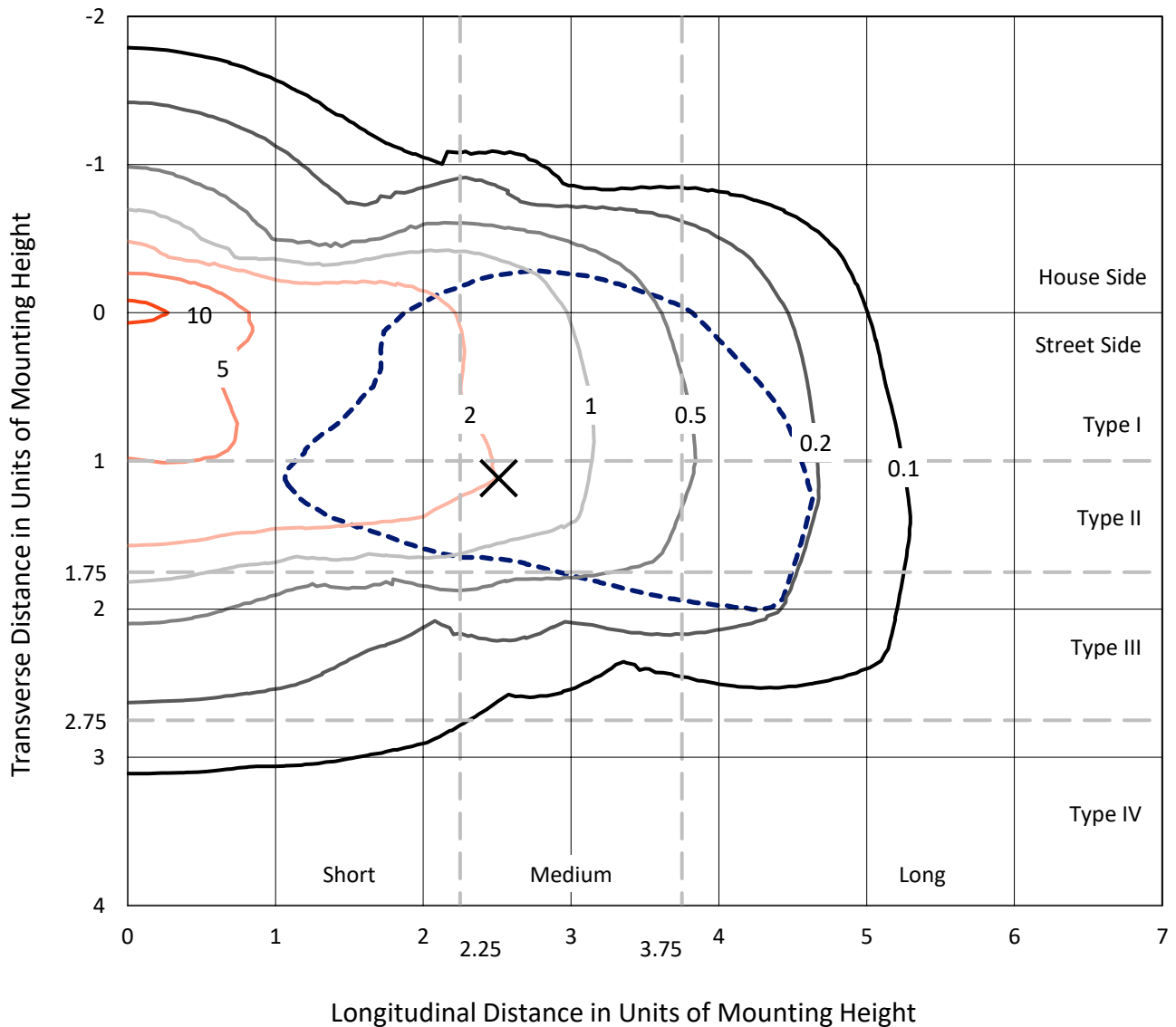
Lumens per Lamp: N/A  
Luminaire Lumens: 11316.9 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
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

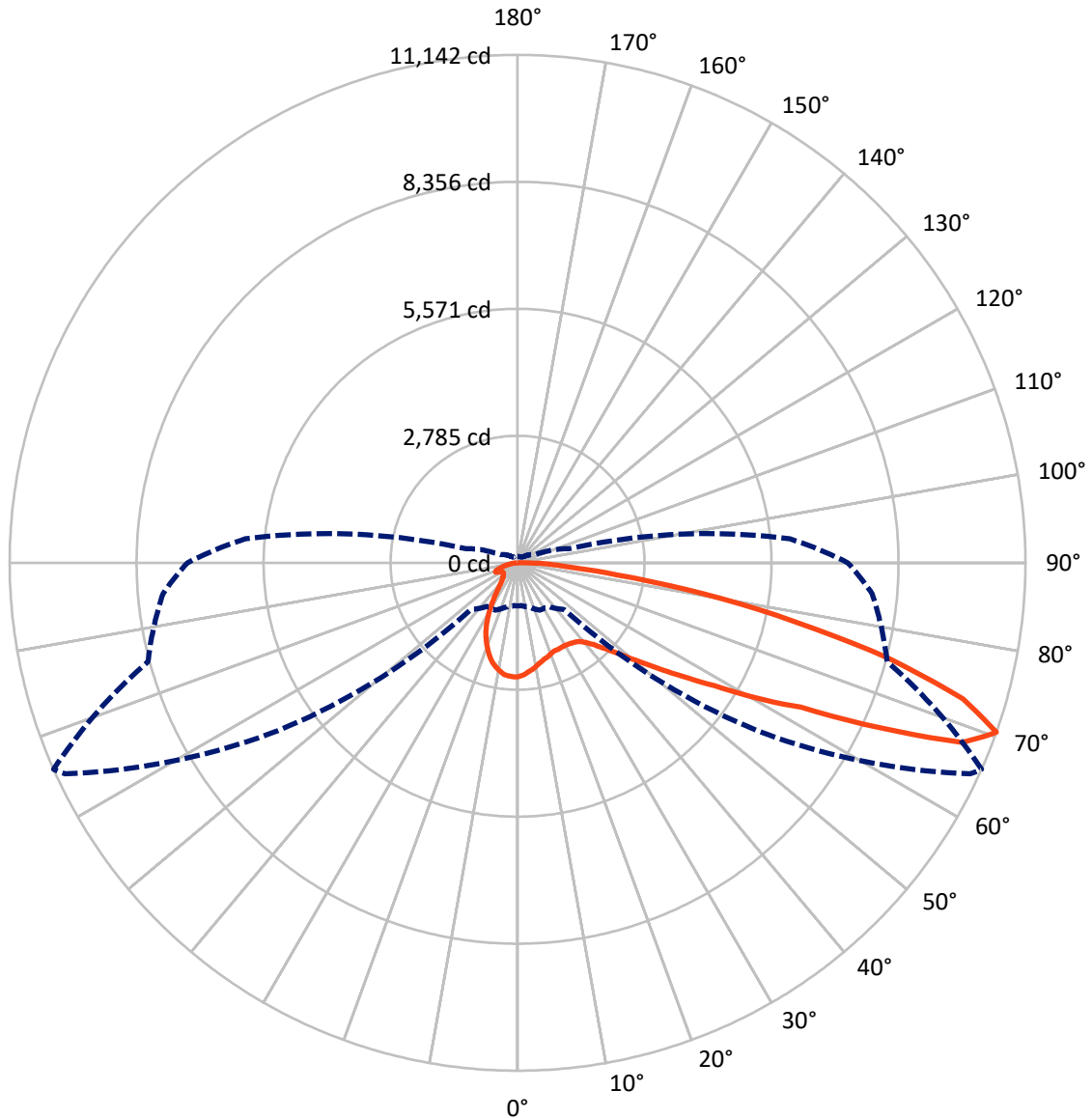
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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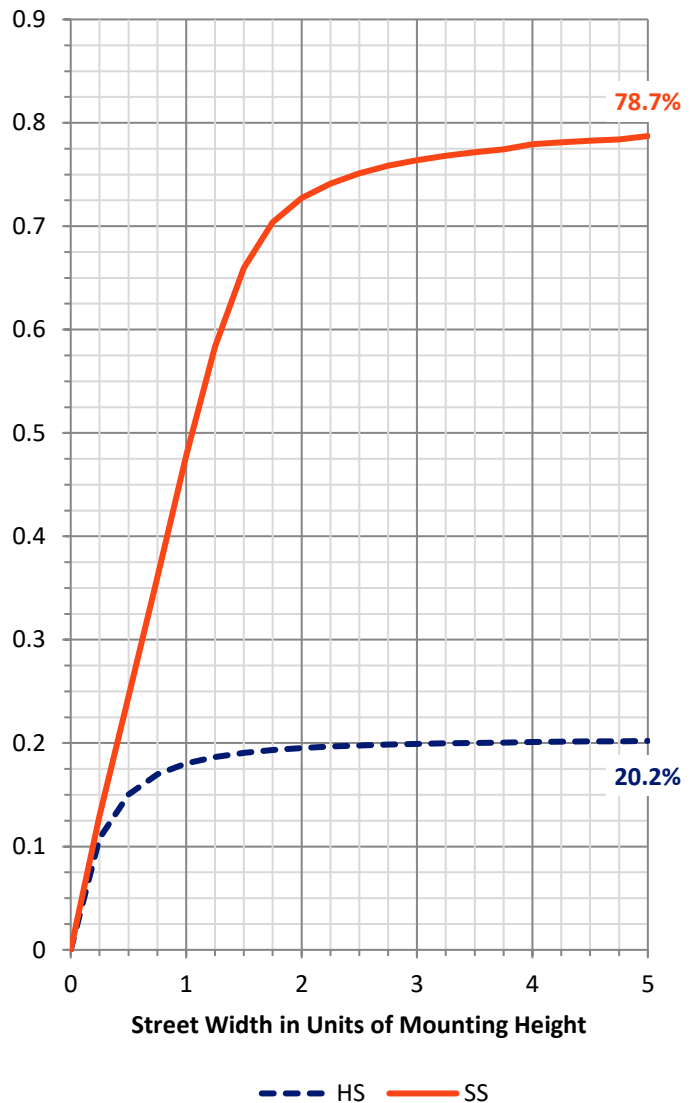
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2316.4	0.0	2316.4
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	9000.5	0.0	9000.5
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	11316.9	0.0	11316.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	2.0
10°-20°	544.2	4.8
20°-30°	747.4	6.6
30°-40°	1002.1	8.9
40°-50°	1454.0	12.8
50°-60°	2210.1	19.5
60°-70°	2729.6	24.1
70°-80°	2029.8	17.9
80°-90°	378.6	3.3
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°	11316.9	100.0
0°-180°	11316.9	100.0

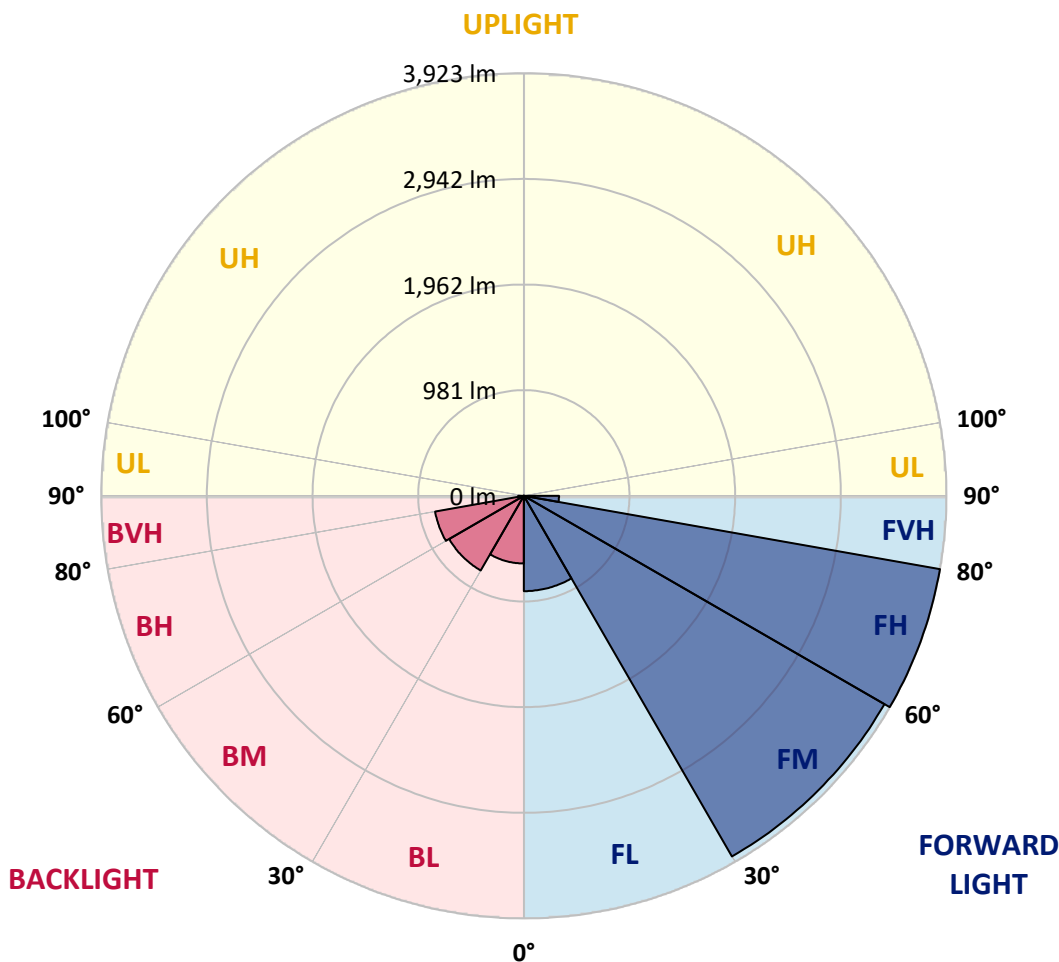


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.9	7.8			
FM (30°-60°)	3866.0	34.2			
FH (60°-80°)	3923.2	34.7			G2/5000
FVH (80°-90°)	326.4	2.9			G3/500
BL (0°-30°)	627.8	5.5	B2/1000		
BM (30°-60°)	800.2	7.1	B1/1000		
BH (60°-80°)	836.2	7.4	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2
2.5°	2378.2	2390.8	2395.0	2403.4	2424.5	2441.3	2466.6	2479.2	2466.6	2483.4	2483.4
5°	2214.0	2197.2	2239.3	2256.1	2281.4	2315.0	2374.0	2420.3	2407.6	2458.2	2500.2
7.5°	2075.1	2075.1	2087.7	2125.6	2155.1	2205.6	2268.7	2340.3	2361.3	2428.7	2491.8
10°	1948.8	1965.7	1965.7	2024.6	2041.4	2100.4	2205.6	2294.0	2298.2	2411.9	2500.2
12.5°	1881.5	1873.1	1915.2	1932.0	1982.5	2041.4	2125.6	2235.1	2239.3	2361.3	2483.4
15°	1826.8	1835.2	1856.2	1898.3	1944.6	1990.9	2070.9	2171.9	2193.0	2336.1	2475.0
17.5°	1831.0	1835.2	1835.2	1864.7	1902.5	1957.3	2033.0	2150.9	2163.5	2302.4	2462.4
20°	1856.2	1839.4	1852.0	1864.7	1889.9	1940.4	2003.6	2104.6	2117.2	2298.2	2491.8
22.5°	1911.0	1898.3	1894.1	1889.9	1885.7	1915.2	1995.1	2079.3	2092.0	2277.2	2504.5
25°	1999.4	1995.1	1965.7	1936.2	1915.2	1915.2	1978.3	2100.4	2096.2	2277.2	2512.9
27.5°	2104.6	2104.6	2100.4	2045.7	1982.5	1948.8	1990.9	2092.0	2087.7	2277.2	2533.9
30°	2247.7	2247.7	2235.1	2184.6	2070.9	1974.1	1999.4	2083.5	2096.2	2260.3	2517.1
32.5°	2403.4	2399.2	2411.9	2365.6	2247.7	2092.0	2049.9	2100.4	2113.0	2277.2	2521.3
35°	2517.1	2542.3	2584.4	2542.3	2424.5	2214.0	2121.4	2134.1	2142.5	2281.4	2538.1
37.5°	2647.6	2677.0	2736.0	2769.6	2643.4	2399.2	2235.1	2188.8	2188.8	2336.1	2542.3
40°	2837.0	2807.5	2908.5	2967.5	2917.0	2626.5	2411.9	2289.8	2294.0	2407.6	2597.1
42.5°	2975.9	3005.3	3110.6	3215.8	3152.7	2904.3	2605.5	2453.9	2453.9	2512.9	2681.2
45°	3131.6	3165.3	3312.6	3438.9	3485.2	3236.9	2870.7	2689.7	2681.2	2719.1	2832.8
47.5°	3304.2	3350.5	3518.9	3666.2	3788.3	3582.0	3211.6	2975.9	2971.7	3001.1	3085.3
50°	3502.0	3518.9	3657.8	3927.2	4171.3	4040.8	3628.3	3380.0	3358.9	3371.5	3485.2
52.5°	3561.0	3548.3	3708.3	3998.7	4444.9	4600.6	4196.5	3838.8	3830.3	3800.9	3948.2
55°	3346.3	3388.4	3544.1	3914.5	4668.0	5261.5	4819.5	4465.9	4390.2	4310.2	4487.0
57.5°	2917.0	2921.2	3098.0	3535.7	4495.4	5808.7	5876.0	5080.5	5084.7	4870.0	5072.1
60°	2268.7	2256.1	2395.0	2790.7	4002.9	5977.0	7029.3	6061.2	6019.1	5429.8	5615.0
62.5°	1637.4	1612.1	1641.6	1873.1	2992.7	5720.3	8161.6	7159.8	6983.0	6002.3	6145.4
65°	1346.9	1359.6	1372.2	1384.8	1679.5	4718.5	8510.9	8952.9	8717.2	6671.5	6730.5
67.5°	1115.4	1123.8	1178.6	1254.3	1245.9	2786.5	8106.9	10611.3	10522.9	7500.7	7235.6
70°	947.1	942.9	1006.0	1144.9	1165.9	1448.0	6419.0	10952.3	11141.7	8393.1	7808.0
72.5°	757.7	766.1	820.8	1006.0	1144.9	1220.7	3695.7	10219.9	10215.7	9079.2	7500.7
75°	543.0	543.0	618.7	833.4	1107.0	1208.0	2045.7	8296.3	8452.0	8532.0	6507.4
77.5°	357.8	374.6	433.5	623.0	1039.7	1182.8	1296.4	6031.7	6225.4	6381.1	4979.5
80°	244.1	252.6	290.4	433.5	879.7	1191.2	1060.7	4057.6	4133.4	3523.1	2020.4
82.5°	147.3	151.5	193.6	303.1	631.4	1132.3	997.6	2239.3	2193.0	1064.9	580.9
85°	80.0	84.2	122.1	202.0	416.7	989.2	980.7	1098.6	1022.8	391.5	244.1
87.5°	29.5	29.5	54.7	101.0	239.9	677.7	854.5	652.4	610.3	197.8	113.6
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°	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2	2500.2
2.5°	2504.5	2504.5	2504.5	2504.5	2500.2	2483.4	2496.0	2491.8	2466.6	2470.8	2453.9
5°	2496.0	2517.1	2504.5	2487.6	2466.6	2416.1	2399.2	2386.6	2352.9	2340.3	2352.9
7.5°	2517.1	2500.2	2491.8	2462.4	2378.2	2331.9	2273.0	2201.4	2150.9	2138.3	2150.9
10°	2512.9	2512.9	2475.0	2390.8	2310.8	2176.1	2100.4	1974.1	1902.5	1881.5	1885.7
12.5°	2496.0	2508.7	2449.7	2315.0	2163.5	1999.4	1860.5	1725.8	1599.5	1549.0	1540.6
15°	2512.9	2500.2	2395.0	2222.4	2012.0	1784.7	1582.6	1384.8	1267.0	1191.2	1174.4
17.5°	2487.6	2475.0	2323.5	2096.2	1814.2	1523.7	1271.2	1056.5	938.6	909.2	909.2
20°	2517.1	2437.1	2239.3	1944.6	1607.9	1237.5	951.3	791.3	761.9	761.9	770.3
22.5°	2512.9	2428.7	2167.7	1797.3	1359.6	934.4	707.1	660.8	665.0	698.7	694.5
25°	2487.6	2411.9	2066.7	1633.2	1098.6	702.9	585.1	572.4	601.9	639.8	635.6
27.5°	2483.4	2365.6	1974.1	1439.5	837.6	555.6	509.3	509.3	538.8	572.4	568.2
30°	2458.2	2327.7	1860.5	1220.7	631.4	484.1	467.2	467.2	479.8	496.7	496.7
32.5°	2453.9	2277.2	1734.2	993.4	505.1	437.8	429.3	433.5	433.5	442.0	437.8
35°	2420.3	2209.8	1603.7	770.3	437.8	412.5	404.1	399.9	399.9	395.7	395.7
37.5°	2407.6	2167.7	1469.0	597.7	408.3	391.5	383.0	370.4	366.2	366.2	362.0
40°	2420.3	2125.6	1338.5	484.1	383.0	374.6	362.0	345.2	340.9	340.9	340.9
42.5°	2466.6	2121.4	1203.8	420.9	370.4	357.8	340.9	324.1	319.9	324.1	319.9
45°	2571.8	2155.1	1073.3	391.5	353.6	340.9	319.9	307.3	303.1	307.3	307.3
47.5°	2744.4	2247.7	955.5	374.6	340.9	324.1	303.1	290.4	290.4	290.4	290.4
50°	3030.6	2424.5	841.8	362.0	332.5	311.5	290.4	273.6	269.4	269.4	273.6
52.5°	3459.9	2727.5	749.2	353.6	319.9	294.6	273.6	261.0	252.6	248.3	252.6
55°	3977.7	3169.5	719.8	345.2	303.1	282.0	261.0	244.1	235.7	235.7	231.5
57.5°	4533.3	3657.8	770.3	336.7	290.4	265.2	244.1	227.3	218.9	214.7	214.7
60°	5135.2	4234.4	955.5	332.5	277.8	248.3	227.3	214.7	202.0	197.8	197.8
62.5°	5682.4	4756.4	1288.0	328.3	269.4	231.5	210.5	193.6	185.2	181.0	181.0
65°	6305.3	5337.2	1612.1	345.2	265.2	218.9	193.6	176.8	168.4	164.2	164.2
67.5°	6848.3	5842.3	1801.5	387.2	277.8	202.0	172.6	159.9	155.7	151.5	151.5
70°	7244.0	5998.1	1208.0	425.1	298.9	189.4	155.7	147.3	138.9	138.9	138.9
72.5°	6713.6	5354.1	715.6	399.9	282.0	176.8	138.9	130.5	126.3	126.3	122.1
75°	5741.3	4558.5	551.4	324.1	227.3	151.5	122.1	113.6	109.4	109.4	105.2
77.5°	4238.6	3266.3	408.3	256.8	176.8	122.1	105.2	101.0	96.8	92.6	92.6
80°	1658.4	1431.1	277.8	189.4	130.5	96.8	88.4	84.2	80.0	75.8	75.8
82.5°	513.5	433.5	159.9	126.3	92.6	75.8	71.6	67.3	63.1	58.9	58.9
85°	223.1	214.7	105.2	80.0	63.1	50.5	50.5	46.3	42.1	37.9	37.9
87.5°	109.4	105.2	58.9	37.9	33.7	25.3	25.3	21.0	16.8	16.8	16.8
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)