

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: P671522

Luminaire Tested: **CCP-SA-2E-730-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671522  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-730-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL4 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

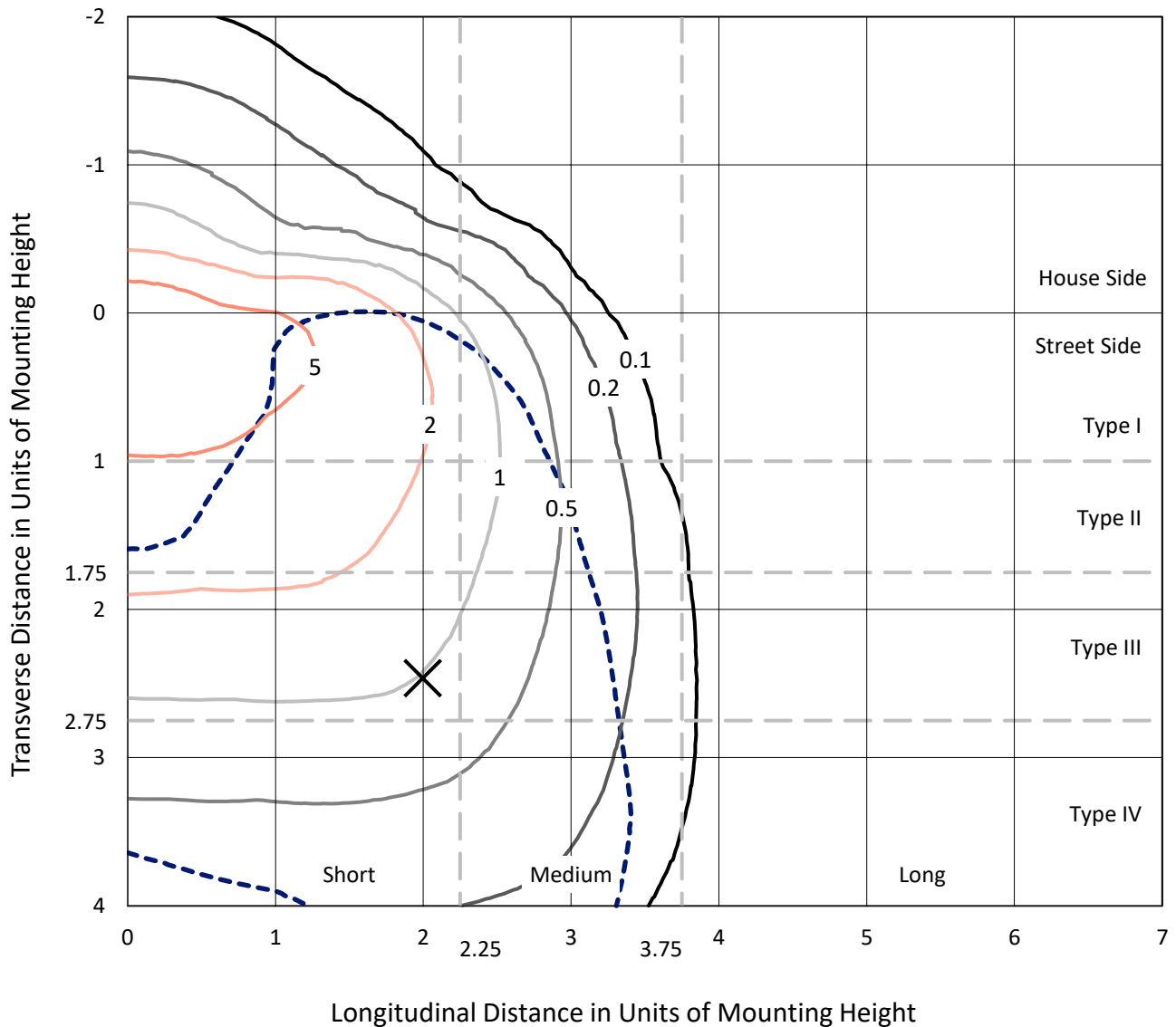
Lumens per Lamp: N/A  
Luminaire Lumens: 12200.7 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

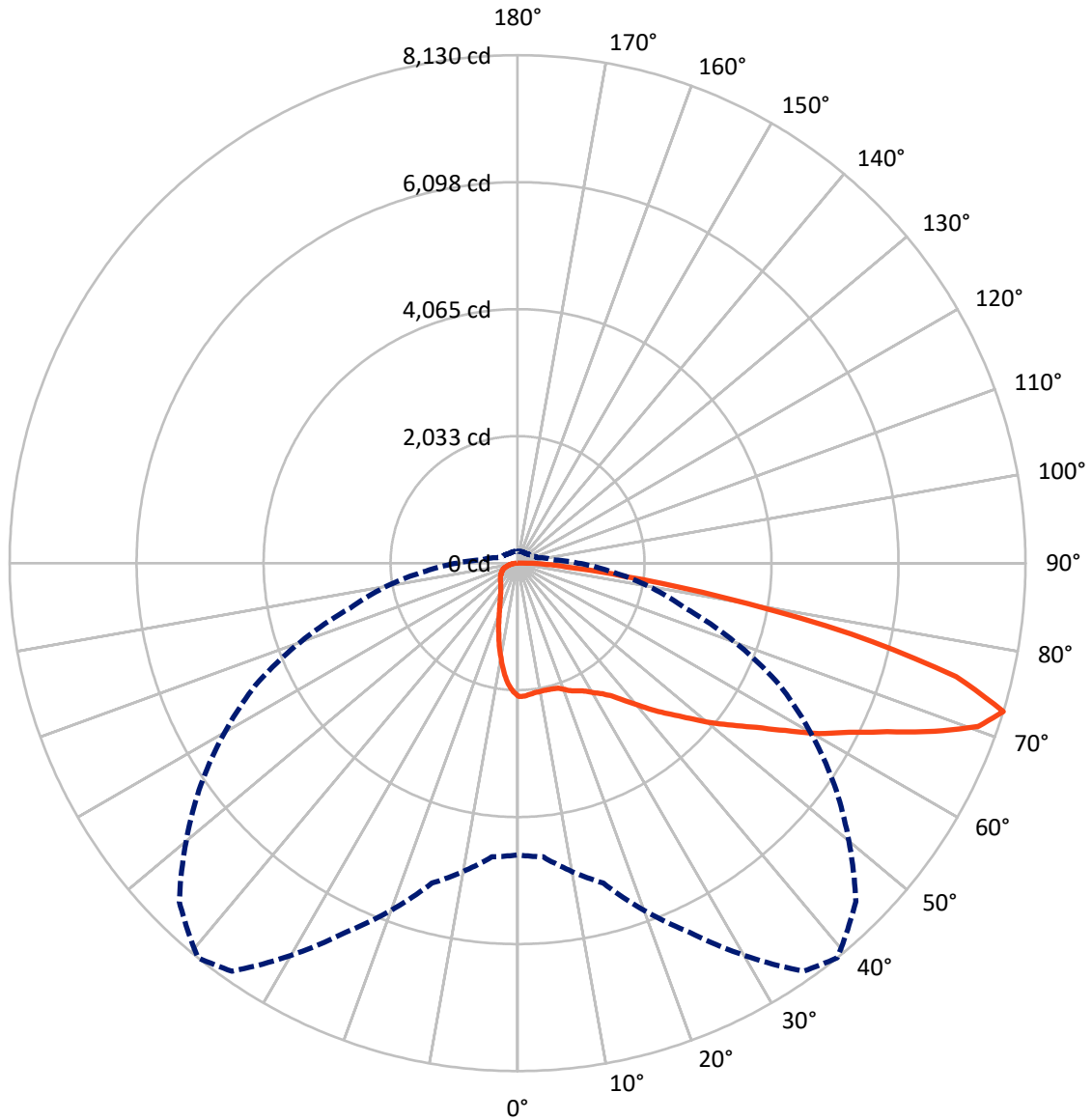
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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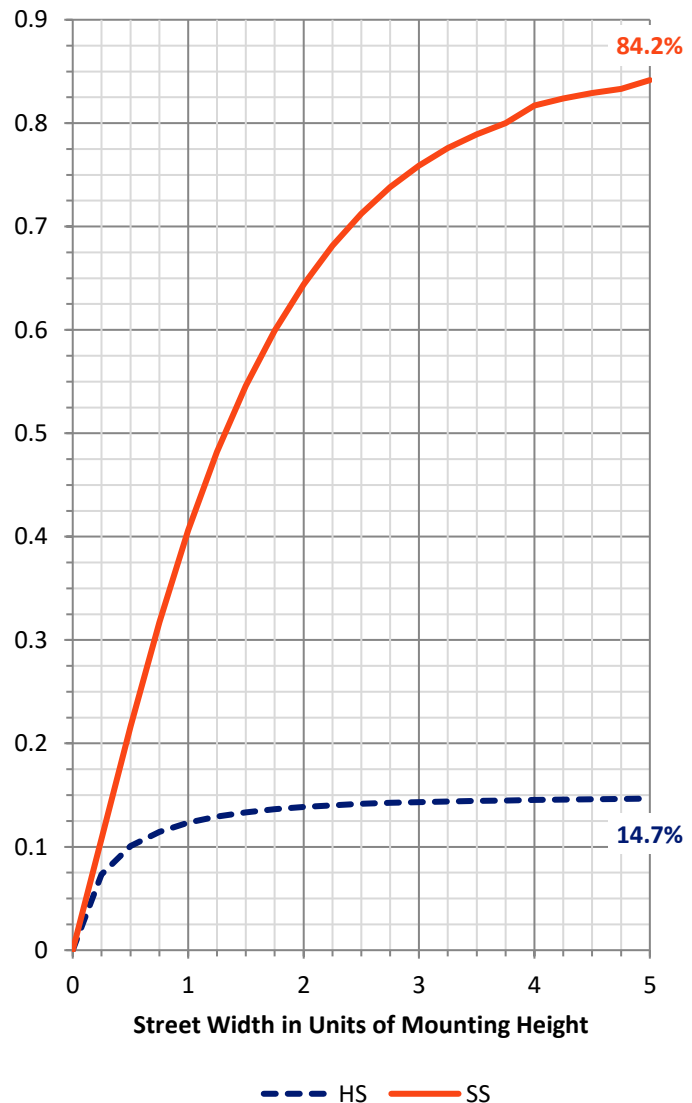
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1813.2	0.0	1813.2
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	10387.4	0.0	10387.4
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	12200.7	0.0	12200.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.7	1.5
10°-20°	481.7	3.9
20°-30°	733.8	6.0
30°-40°	1073.4	8.8
40°-50°	1643.4	13.5
50°-60°	2410.2	19.8
60°-70°	3073.9	25.2
70°-80°	2221.0	18.2
80°-90°	374.6	3.1
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°	12200.7	100.0
0°-180°	12200.7	100.0



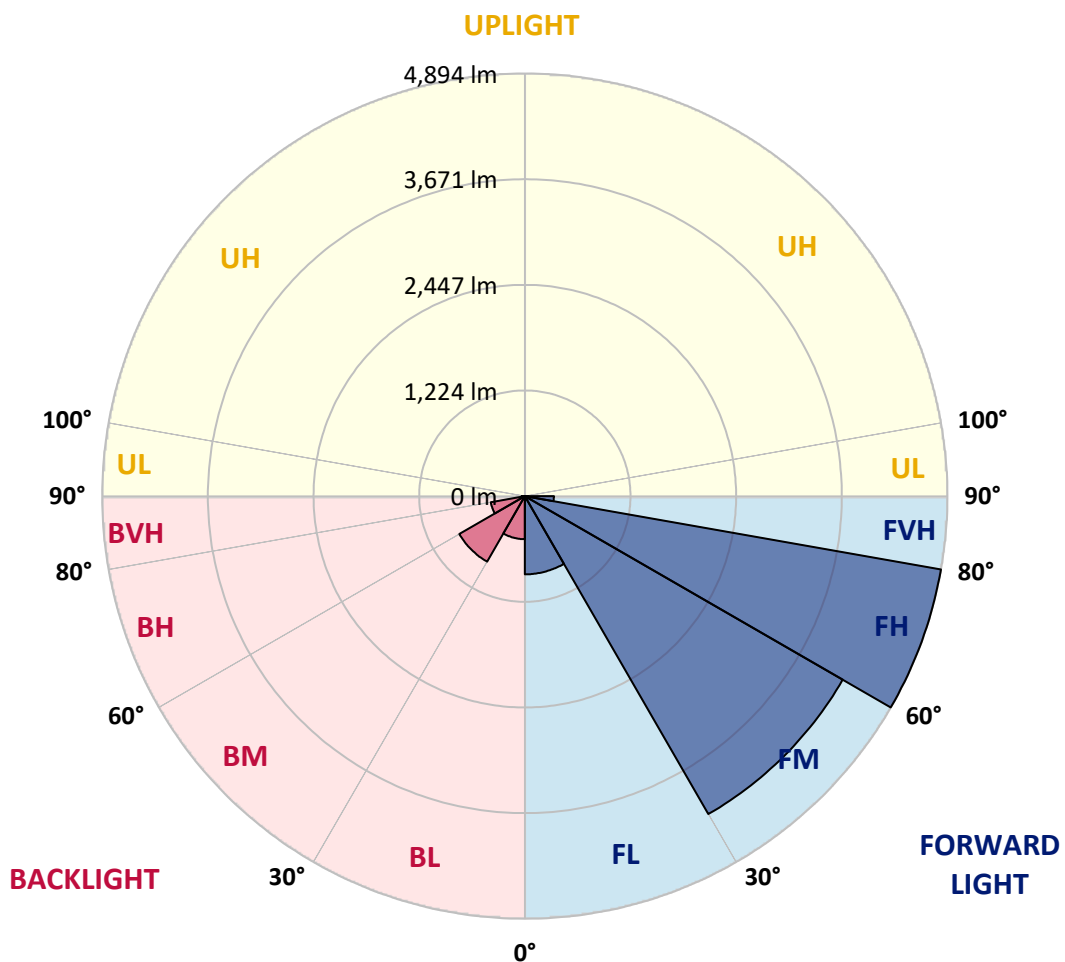
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.5	7.4			
FM (30°-60°)	4251.0	34.8			
FH (60°-80°)	4894.2	40.1			G2/5000
FVH (80°-90°)	336.7	2.8			G3/500
BL (0°-30°)	498.7	4.1	B1/500		
BM (30°-60°)	876.0	7.2	B1/1000		
BH (60°-80°)	400.6	3.3	B1/500		G1/500
BVH (80°-90°)	38.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7
2.5°	2167.7	2172.3	2163.2	2154.0	2149.4	2131.1	2149.4	2140.2	2131.1	2131.1	2131.1
5°	2140.2	2144.8	2144.8	2135.7	2140.2	2108.2	2103.6	2108.2	2094.4	2085.2	2080.7
7.5°	2099.0	2108.2	2126.5	2121.9	2103.6	2089.8	2094.4	2089.8	2066.9	2053.2	2016.5
10°	2066.9	2076.1	2085.2	2094.4	2089.8	2085.2	2080.7	2062.3	2057.7	2025.7	1989.0
12.5°	2034.8	2034.8	2039.4	2076.1	2080.7	2080.7	2053.2	2053.2	2039.4	2034.8	1979.8
15°	2002.8	2016.5	2053.2	2062.3	2080.7	2089.8	2076.1	2076.1	2053.2	2021.1	1979.8
17.5°	2011.9	2034.8	2071.5	2094.4	2103.6	2103.6	2121.9	2108.2	2076.1	2057.7	2016.5
20°	2057.7	2062.3	2108.2	2149.4	2158.6	2158.6	2140.2	2126.5	2103.6	2071.5	2016.5
22.5°	2085.2	2117.3	2172.3	2195.2	2222.7	2222.7	2199.8	2167.7	2135.7	2103.6	2044.0
25°	2204.4	2209.0	2231.9	2268.6	2282.3	2264.0	2241.1	2204.4	2163.2	2131.1	2076.1
27.5°	2286.9	2309.8	2337.3	2355.6	2332.7	2319.0	2300.6	2259.4	2227.3	2199.8	2121.9
30°	2438.1	2410.6	2429.0	2438.1	2396.9	2406.1	2355.6	2319.0	2282.3	2282.3	2195.2
32.5°	2529.8	2552.7	2534.4	2529.8	2497.7	2493.1	2461.1	2419.8	2396.9	2424.4	2305.2
35°	2690.2	2676.4	2676.4	2671.9	2635.2	2612.3	2612.3	2539.0	2561.9	2621.5	2474.8
37.5°	2772.7	2768.1	2795.6	2818.5	2781.9	2795.6	2781.9	2749.8	2758.9	2864.4	2685.6
40°	2855.2	2887.3	2942.3	2951.4	2974.3	2992.7	2983.5	2978.9	3015.6	3185.2	2969.8
42.5°	2933.1	2960.6	3043.1	3116.4	3171.4	3231.0	3235.6	3235.6	3354.7	3597.6	3313.5
45°	3033.9	3056.8	3171.4	3318.1	3409.7	3451.0	3487.6	3528.9	3689.3	3978.0	3680.1
47.5°	3171.4	3189.7	3327.2	3510.5	3689.3	3712.2	3785.5	3831.4	4074.3	4367.6	4055.9
50°	3368.5	3354.7	3464.7	3730.5	3904.7	4014.7	4120.1	4202.6	4440.9	4761.7	4349.2
52.5°	3528.9	3528.9	3611.4	3964.3	4202.6	4308.0	4418.0	4532.5	4807.5	5155.8	4587.5
55°	3803.9	3776.4	3826.8	4193.4	4537.1	4638.0	4848.8	4945.0	5210.8	5449.1	4789.2
57.5°	3991.8	4005.5	4065.1	4495.9	4931.3	5055.0	5265.8	5334.6	5568.3	5756.2	4935.9
60°	4239.2	4193.4	4321.7	4830.4	5366.6	5540.8	5715.0	5756.2	5930.4	5953.3	5004.6
62.5°	4477.6	4468.4	4578.4	5165.0	5834.1	5957.9	6136.6	6182.4	6255.7	6109.1	4908.4
65°	4624.2	4683.8	4890.0	5531.6	6365.7	6503.2	6682.0	6590.3	6507.8	5971.6	4436.3
67.5°	4825.9	4853.4	5169.6	5930.4	6979.9	7186.1	7341.9	6979.9	6365.7	5407.9	3735.1
70°	4871.7	4945.0	5357.5	6347.4	7612.3	7823.1	7832.3	6846.9	5847.9	4399.6	2708.5
72.5°	4670.0	4720.5	5302.5	6521.6	7974.4	8130.2	7658.1	6191.6	4633.4	2772.7	1475.7
75°	3927.6	4069.7	4615.0	5985.3	7309.8	7250.2	6489.5	4725.0	2781.9	1228.2	623.3
77.5°	2736.0	2740.6	3308.9	4353.8	5472.1	5458.3	4628.8	2740.6	1191.6	495.0	366.6
80°	1214.5	1301.6	1645.3	2346.5	3322.6	3322.6	2699.4	1361.1	595.8	320.8	252.1
82.5°	714.9	742.4	879.9	1095.3	1617.8	1704.9	1292.4	907.4	407.9	201.7	155.8
85°	527.0	572.9	655.4	659.9	765.4	779.1	714.9	788.3	279.6	110.0	128.3
87.5°	394.1	421.6	522.5	435.4	407.9	385.0	440.0	806.6	105.4	55.0	41.2
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°	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7	2135.7
2.5°	2112.7	2112.7	2103.6	2085.2	2085.2	2048.6	2057.7	2066.9	2044.0	2044.0	2048.6
5°	2080.7	2062.3	2039.4	2011.9	1993.6	1943.2	1934.0	1901.9	1897.3	1888.2	1874.4
7.5°	2016.5	1989.0	1947.8	1906.5	1846.9	1801.1	1746.1	1700.3	1681.9	1668.2	1663.6
10°	1956.9	1952.3	1883.6	1801.1	1709.4	1622.4	1539.9	1480.3	1443.6	1420.7	1416.1
12.5°	1956.9	1920.3	1824.0	1709.4	1576.5	1448.2	1342.8	1260.3	1209.9	1173.2	1159.5
15°	1947.8	1911.1	1782.8	1608.6	1457.4	1283.2	1136.6	1049.5	976.2	939.5	944.1
17.5°	1956.9	1901.9	1723.2	1535.3	1324.5	1136.6	962.4	857.0	783.7	756.2	751.6
20°	1961.5	1892.8	1677.4	1434.5	1187.0	976.2	811.2	710.4	655.4	637.0	637.0
22.5°	1952.3	1865.3	1608.6	1315.3	1067.8	843.3	705.8	618.7	582.0	559.1	568.3
25°	1993.6	1860.7	1544.5	1214.5	930.3	733.3	627.9	563.7	540.8	527.0	531.6
27.5°	2002.8	1860.7	1494.0	1099.9	811.2	650.8	568.3	527.0	508.7	499.5	495.0
30°	2039.4	1869.8	1434.5	985.3	714.9	586.6	522.5	499.5	485.8	481.2	481.2
32.5°	2140.2	1897.3	1370.3	889.1	632.4	531.6	490.4	472.0	462.9	458.3	462.9
35°	2259.4	1970.7	1301.6	788.3	572.9	495.0	462.9	449.1	444.5	444.5	444.5
37.5°	2442.7	2080.7	1242.0	705.8	522.5	458.3	435.4	430.8	426.2	430.8	430.8
40°	2653.5	2199.8	1187.0	641.6	485.8	435.4	412.5	412.5	407.9	412.5	417.0
42.5°	2896.4	2346.5	1132.0	577.5	453.7	417.0	398.7	394.1	389.6	398.7	403.3
45°	3231.0	2548.1	1095.3	540.8	430.8	398.7	380.4	380.4	375.8	375.8	385.0
47.5°	3510.5	2740.6	1095.3	504.1	417.0	385.0	366.6	366.6	357.5	362.1	362.1
50°	3744.3	2905.6	1118.2	495.0	398.7	371.2	357.5	348.3	343.7	343.7	343.7
52.5°	3900.1	3006.4	1136.6	485.8	389.6	352.9	343.7	339.1	330.0	325.4	330.0
55°	4055.9	3075.2	1141.2	485.8	375.8	334.6	325.4	325.4	316.2	311.6	311.6
57.5°	4115.5	3047.7	1077.0	476.6	366.6	320.8	311.6	307.1	302.5	297.9	297.9
60°	4088.0	2946.8	934.9	453.7	357.5	311.6	293.3	293.3	293.3	284.1	288.7
62.5°	3900.1	2603.1	751.6	417.0	343.7	293.3	275.0	284.1	284.1	279.6	279.6
65°	3405.1	2149.4	609.5	385.0	325.4	279.6	261.2	275.0	279.6	275.0	270.4
67.5°	2722.3	1654.4	504.1	348.3	302.5	256.6	242.9	256.6	261.2	256.6	256.6
70°	1869.8	1067.8	407.9	311.6	270.4	233.7	220.0	229.1	229.1	233.7	233.7
72.5°	967.0	577.5	334.6	265.8	233.7	210.8	197.1	197.1	192.5	192.5	192.5
75°	481.2	394.1	279.6	224.6	197.1	178.7	169.6	160.4	160.4	160.4	160.4
77.5°	334.6	302.5	229.1	178.7	160.4	146.7	146.7	132.9	132.9	132.9	132.9
80°	252.1	238.3	174.2	137.5	123.7	114.6	114.6	110.0	110.0	105.4	105.4
82.5°	178.7	192.5	132.9	100.8	91.7	87.1	87.1	82.5	82.5	73.3	73.3
85°	142.1	160.4	100.8	73.3	68.7	59.6	59.6	55.0	55.0	50.4	45.8
87.5°	41.2	87.1	41.2	27.5	27.5	27.5	27.5	22.9	22.9	18.3	18.3
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)