

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: P671454

Luminaire Tested: **CCP-SA-2D-835-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671454  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-835-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL3 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

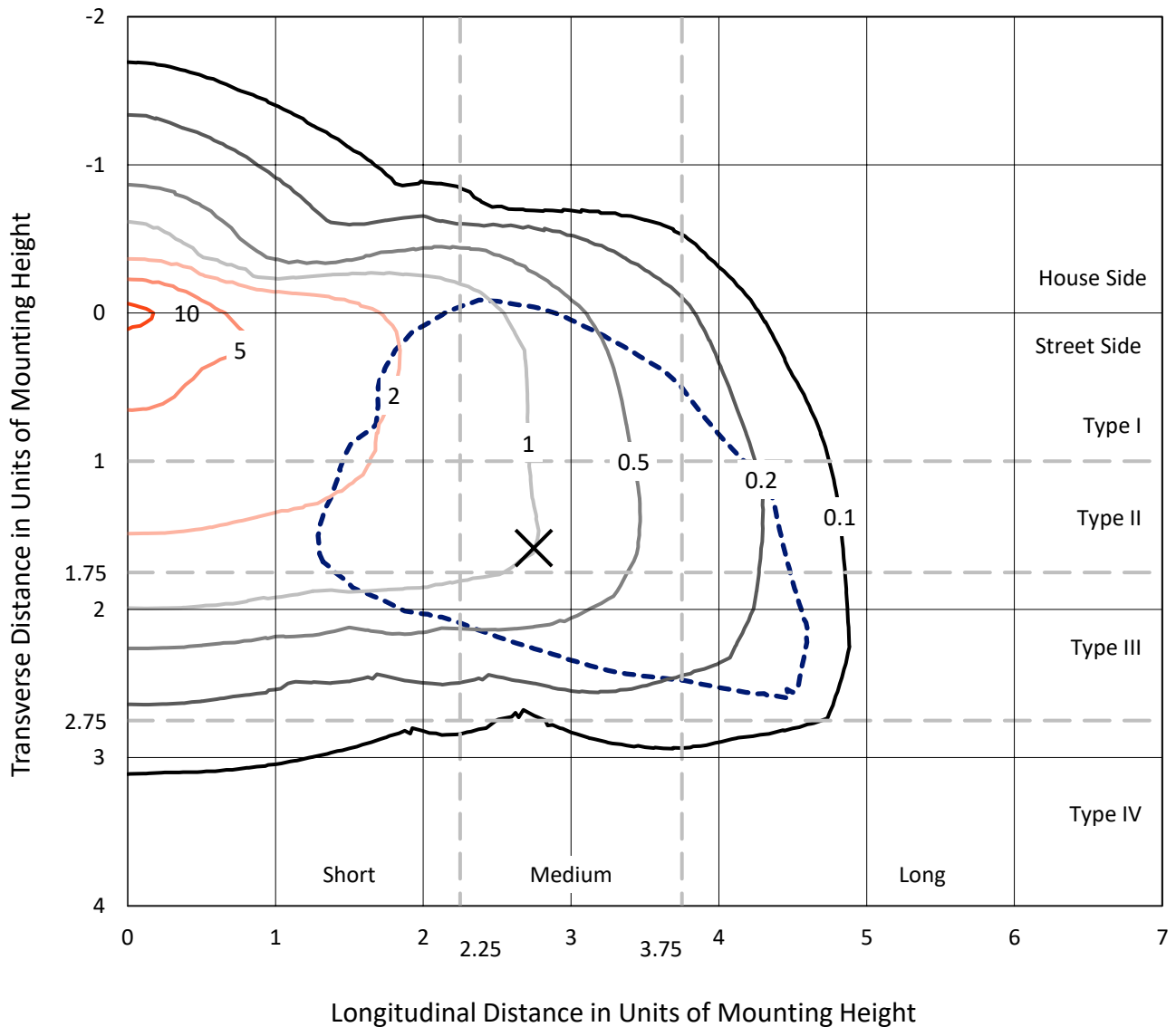
Lumens per Lamp: N/A  
Luminaire Lumens: 9086.4 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

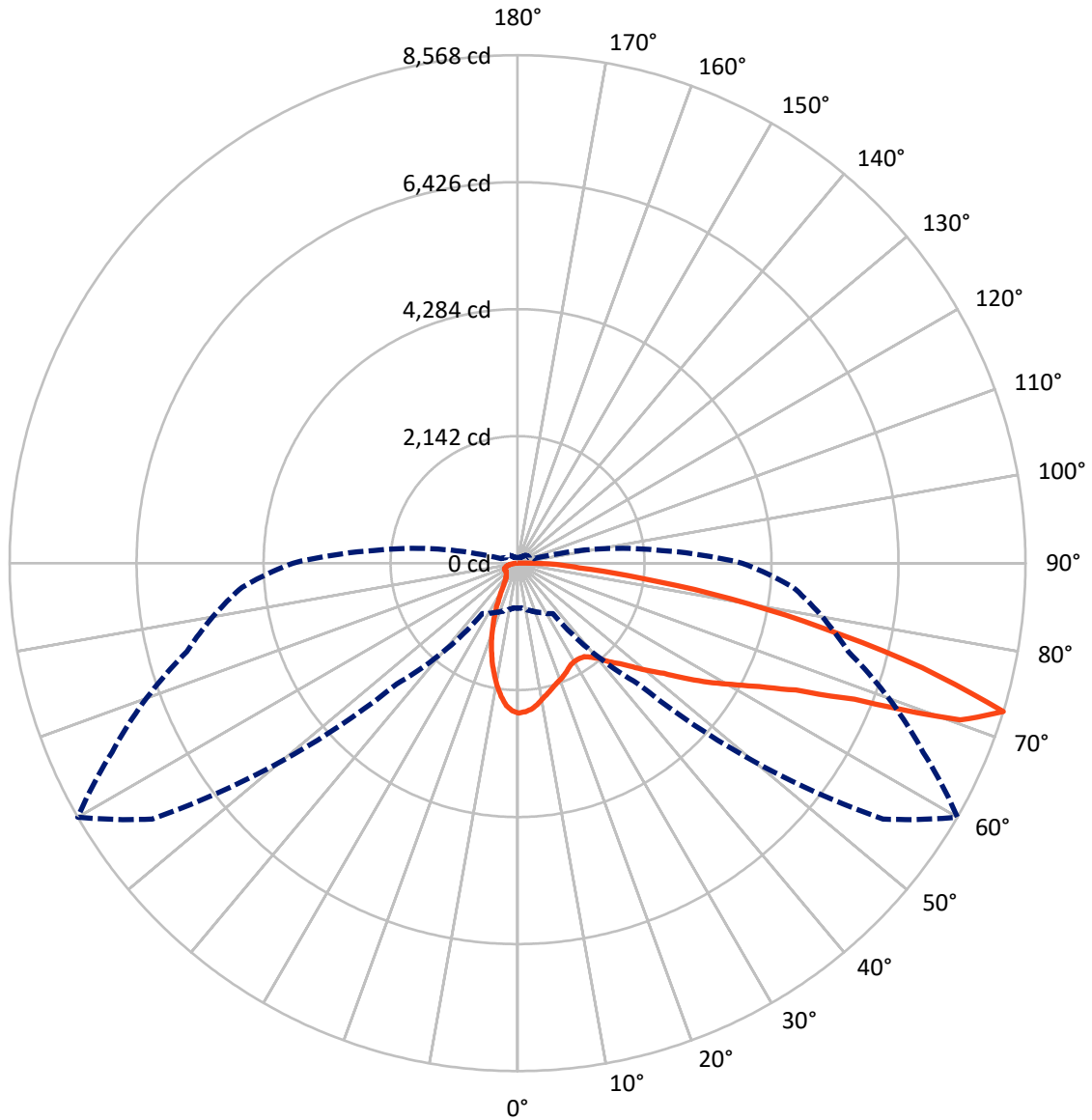
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1560.9	0.0	1560.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	7525.5	0.0	7525.5
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	9086.4	0.0	9086.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	2.4
10°-20°	497.3	5.5
20°-30°	636.4	7.0
30°-40°	814.2	9.0
40°-50°	1116.7	12.3
50°-60°	1615.2	17.8
60°-70°	2215.7	24.4
70°-80°	1662.7	18.3
80°-90°	309.0	3.4
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°	9086.4	100.0
0°-180°	9086.4	100.0



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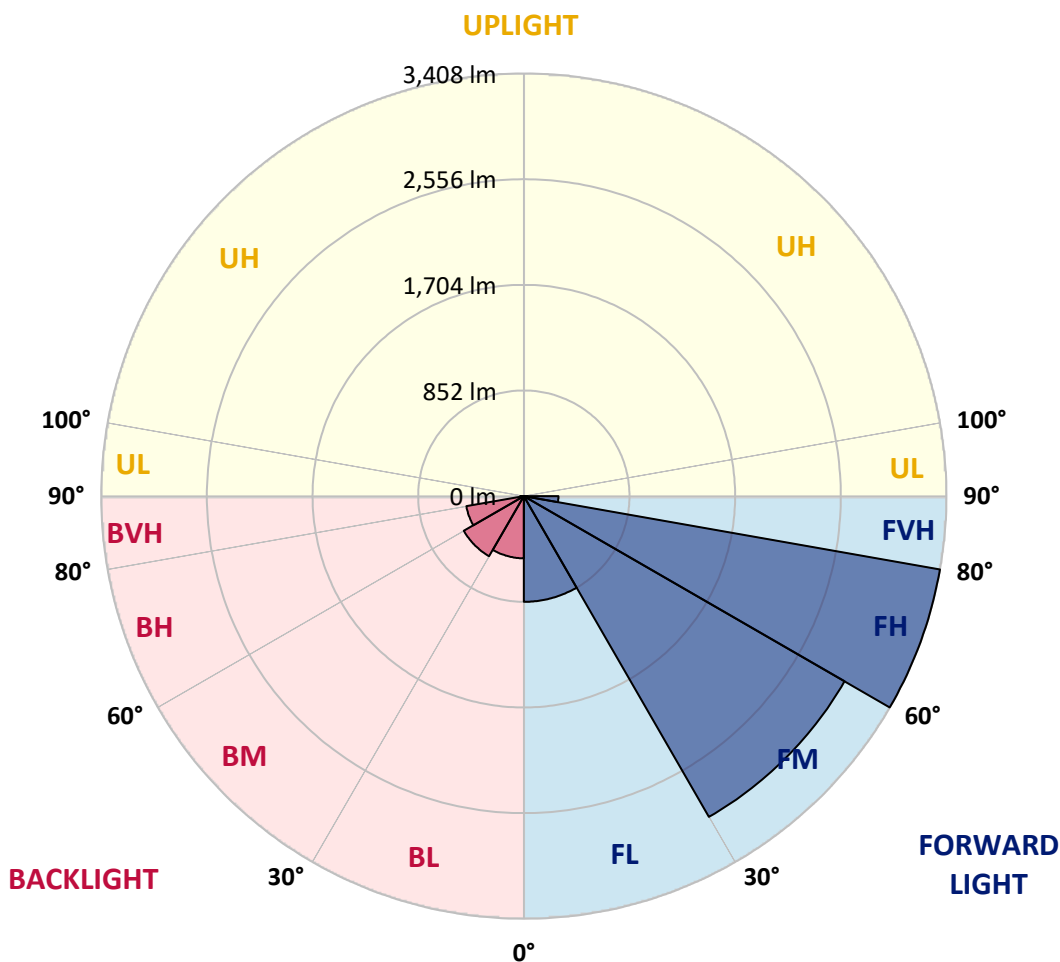
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.0	9.4			
FM (30°-60°)	2986.6	32.9			
FH (60°-80°)	3408.0	37.5			G2/5000
FVH (80°-90°)	278.9	3.1			G3/500
BL (0°-30°)	501.1	5.5	B2/1000		
BM (30°-60°)	559.4	6.2	B1/1000		
BH (60°-80°)	470.4	5.2	B1/500		G1/500
BVH (80°-90°)	30.1	0.3			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°	60°	65°	75°	85°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2476.0	2499.7	2506.4	2506.4	2526.7	2503.1	2536.9	2509.8	2516.6	2526.7	2520.0
5°	2357.6	2398.2	2374.5	2418.5	2401.6	2432.0	2472.6	2472.6	2462.5	2482.8	2465.8
7.5°	2242.6	2229.1	2269.7	2269.7	2296.7	2337.3	2371.1	2405.0	2408.3	2415.1	2411.7
10°	2087.0	2103.9	2124.2	2151.3	2185.1	2225.7	2296.7	2323.8	2330.5	2371.1	2361.0
12.5°	1958.5	1982.1	1995.7	2049.8	2080.2	2137.7	2218.9	2256.1	2259.5	2317.0	2317.0
15°	1863.8	1877.3	1907.7	1928.0	1995.7	2076.9	2154.7	2188.5	2225.7	2286.6	2269.7
17.5°	1799.5	1816.4	1829.9	1857.0	1921.3	1988.9	2110.7	2131.0	2175.0	2262.9	2242.6
20°	1762.3	1765.7	1786.0	1802.9	1860.4	1924.6	2032.9	2087.0	2144.5	2222.3	2202.0
22.5°	1769.1	1755.5	1752.1	1775.8	1786.0	1846.8	1978.8	2036.3	2117.4	2208.8	2175.0
25°	1782.6	1786.0	1779.2	1758.9	1762.3	1816.4	1904.4	1978.8	2070.1	2205.4	2137.7
27.5°	1816.4	1833.3	1806.3	1786.0	1765.7	1786.0	1877.3	1931.4	2032.9	2222.3	2134.4
30°	1850.2	1867.1	1860.4	1829.9	1789.3	1782.6	1846.8	1914.5	2012.6	2235.8	2134.4
32.5°	1901.0	1924.6	1901.0	1911.1	1863.8	1833.3	1857.0	1917.9	2032.9	2283.2	2137.7
35°	1958.5	1978.8	1985.5	1961.9	1951.7	1894.2	1907.7	1938.2	2053.2	2337.3	2171.6
37.5°	2022.7	2046.4	2066.7	2070.1	2036.3	2002.4	1995.7	2012.6	2103.9	2432.0	2208.8
40°	2066.7	2080.2	2120.8	2154.7	2164.8	2117.4	2114.1	2114.1	2195.2	2516.6	2276.4
42.5°	2141.1	2134.4	2191.9	2252.7	2269.7	2242.6	2249.4	2276.4	2323.8	2638.4	2384.7
45°	2178.3	2171.6	2239.2	2340.7	2418.5	2405.0	2411.7	2421.9	2465.8	2831.2	2567.3
47.5°	2229.1	2235.8	2333.9	2448.9	2530.1	2577.5	2614.7	2611.3	2645.1	3027.3	2770.3
50°	2279.8	2293.3	2411.7	2533.5	2675.6	2756.7	2810.9	2848.1	2881.9	3233.7	3003.7
52.5°	2377.9	2391.4	2523.4	2655.3	2837.9	2956.3	3091.6	3088.2	3091.6	3440.0	3237.1
55°	2520.0	2523.4	2601.1	2753.4	3000.3	3216.8	3402.8	3423.1	3365.6	3697.1	3504.3
57.5°	2682.3	2695.9	2763.5	2878.5	3128.8	3467.1	3751.2	3791.8	3636.2	3906.8	3747.8
60°	2834.5	2844.7	2949.5	3081.5	3352.1	3781.6	4103.0	4150.3	3981.2	4163.9	4001.5
62.5°	2662.0	2712.8	2898.8	3199.9	3744.4	4258.6	4549.5	4579.9	4316.1	4424.3	4272.1
65°	2131.0	2164.8	2432.0	2919.1	3771.5	5124.5	5239.5	5158.3	4776.1	4759.2	4681.4
67.5°	1187.3	1214.3	1397.0	1907.7	3176.2	5449.2	6724.4	6129.1	5489.8	5263.2	5236.1
70°	937.0	943.7	967.4	1072.3	1762.3	4803.2	7894.8	7921.8	6656.8	5956.6	5354.5
72.5°	761.1	757.7	828.7	920.0	1041.8	2881.9	7526.1	8567.9	7549.8	5773.9	4664.5
75°	581.8	591.9	683.3	815.2	953.9	1356.4	5615.0	7049.1	7072.8	5381.6	3933.9
77.5°	443.1	446.5	548.0	720.5	933.6	957.2	3663.3	5253.0	5276.7	4167.2	2168.2
80°	331.5	331.5	416.0	608.9	909.9	882.8	2256.1	3643.0	3297.9	1464.6	473.6
82.5°	189.4	203.0	277.4	463.4	825.3	849.0	1271.8	2087.0	1393.6	399.1	219.9
85°	101.5	104.9	169.1	311.2	679.9	811.8	970.8	1038.4	554.7	213.1	101.5
87.5°	37.2	37.2	77.8	159.0	429.6	602.1	771.2	663.0	318.0	98.1	50.7
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°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2526.7	2513.2	2503.1	2513.2	2476.0	2459.1	2479.4	2469.2	2448.9	2438.8	2432.0
5°	2476.0	2459.1	2442.2	2432.0	2391.4	2350.8	2330.5	2290.0	2256.1	2266.3	2246.0
7.5°	2421.9	2405.0	2354.2	2306.9	2225.7	2144.5	2107.3	2049.8	2029.5	2012.6	2002.4
10°	2354.2	2323.8	2246.0	2151.3	2032.9	1941.6	1846.8	1779.2	1708.2	1677.7	1687.9
12.5°	2269.7	2252.7	2131.0	1985.5	1819.8	1667.6	1556.0	1447.7	1353.0	1302.3	1288.7
15°	2232.5	2181.7	2005.8	1813.0	1603.3	1413.9	1248.1	1058.7	947.1	893.0	893.0
17.5°	2191.9	2097.2	1887.4	1623.6	1383.4	1139.9	906.5	734.0	646.1	615.6	615.6
20°	2127.6	2022.7	1748.8	1444.3	1153.4	859.2	649.4	554.7	527.7	507.4	510.8
22.5°	2080.2	1951.7	1620.2	1268.4	913.3	639.3	510.8	480.3	470.2	463.4	466.8
25°	2026.1	1867.1	1484.9	1079.0	717.1	504.0	443.1	429.6	436.3	439.7	439.7
27.5°	1982.1	1796.1	1346.2	876.1	541.2	426.2	399.1	395.8	409.3	416.0	419.4
30°	1951.7	1731.8	1210.9	690.0	433.0	378.8	365.3	365.3	382.2	389.0	392.4
32.5°	1921.3	1677.7	1065.5	527.7	368.7	338.3	334.9	338.3	348.4	348.4	351.8
35°	1931.4	1627.0	926.8	426.2	331.5	311.2	311.2	311.2	314.6	318.0	318.0
37.5°	1951.7	1613.5	778.0	358.5	304.4	290.9	290.9	287.5	290.9	287.5	290.9
40°	1972.0	1593.2	642.7	318.0	287.5	277.4	274.0	267.2	263.8	263.8	267.2
42.5°	2056.6	1620.2	527.7	290.9	274.0	267.2	257.1	250.3	246.9	246.9	246.9
45°	2164.8	1671.0	436.3	277.4	263.8	246.9	240.2	236.8	230.0	233.4	236.8
47.5°	2327.2	1748.8	382.2	267.2	253.7	233.4	226.6	219.9	219.9	226.6	226.6
50°	2540.3	1877.3	348.4	257.1	243.5	223.2	213.1	209.7	209.7	219.9	219.9
52.5°	2770.3	2026.1	334.9	253.7	233.4	213.1	203.0	199.6	199.6	213.1	213.1
55°	3000.3	2208.8	345.0	253.7	226.6	203.0	192.8	186.0	189.4	199.6	199.6
57.5°	3254.0	2405.0	395.8	253.7	219.9	199.6	186.0	175.9	179.3	182.7	182.7
60°	3531.3	2662.0	483.7	253.7	216.5	192.8	175.9	162.4	162.4	165.7	165.7
62.5°	3812.1	2915.7	608.9	257.1	219.9	189.4	162.4	148.8	145.4	148.8	148.8
65°	4180.8	3321.6	734.0	257.1	230.0	182.7	152.2	135.3	131.9	131.9	135.3
67.5°	4698.3	3612.5	568.3	246.9	236.8	182.7	142.1	125.2	118.4	118.4	118.4
70°	4424.3	3047.6	361.9	230.0	226.6	189.4	135.3	115.0	108.2	104.9	104.9
72.5°	3788.4	2438.8	290.9	216.5	209.7	186.0	128.5	108.2	98.1	94.7	94.7
75°	3037.5	1924.6	253.7	196.2	182.7	155.6	118.4	98.1	91.3	84.6	84.6
77.5°	1488.3	805.0	192.8	172.5	155.6	118.4	104.9	91.3	81.2	74.4	74.4
80°	372.1	280.7	142.1	135.3	115.0	91.3	84.6	77.8	71.0	64.3	64.3
82.5°	199.6	165.7	101.5	91.3	77.8	64.3	64.3	60.9	57.5	50.7	47.4
85°	101.5	98.1	67.7	60.9	50.7	40.6	44.0	44.0	40.6	30.4	30.4
87.5°	54.1	54.1	33.8	27.1	23.7	20.3	20.3	20.3	16.9	13.5	13.5
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)