

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: P677059

Luminaire Tested: **CCW-SA-2E-835-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677059  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-835-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

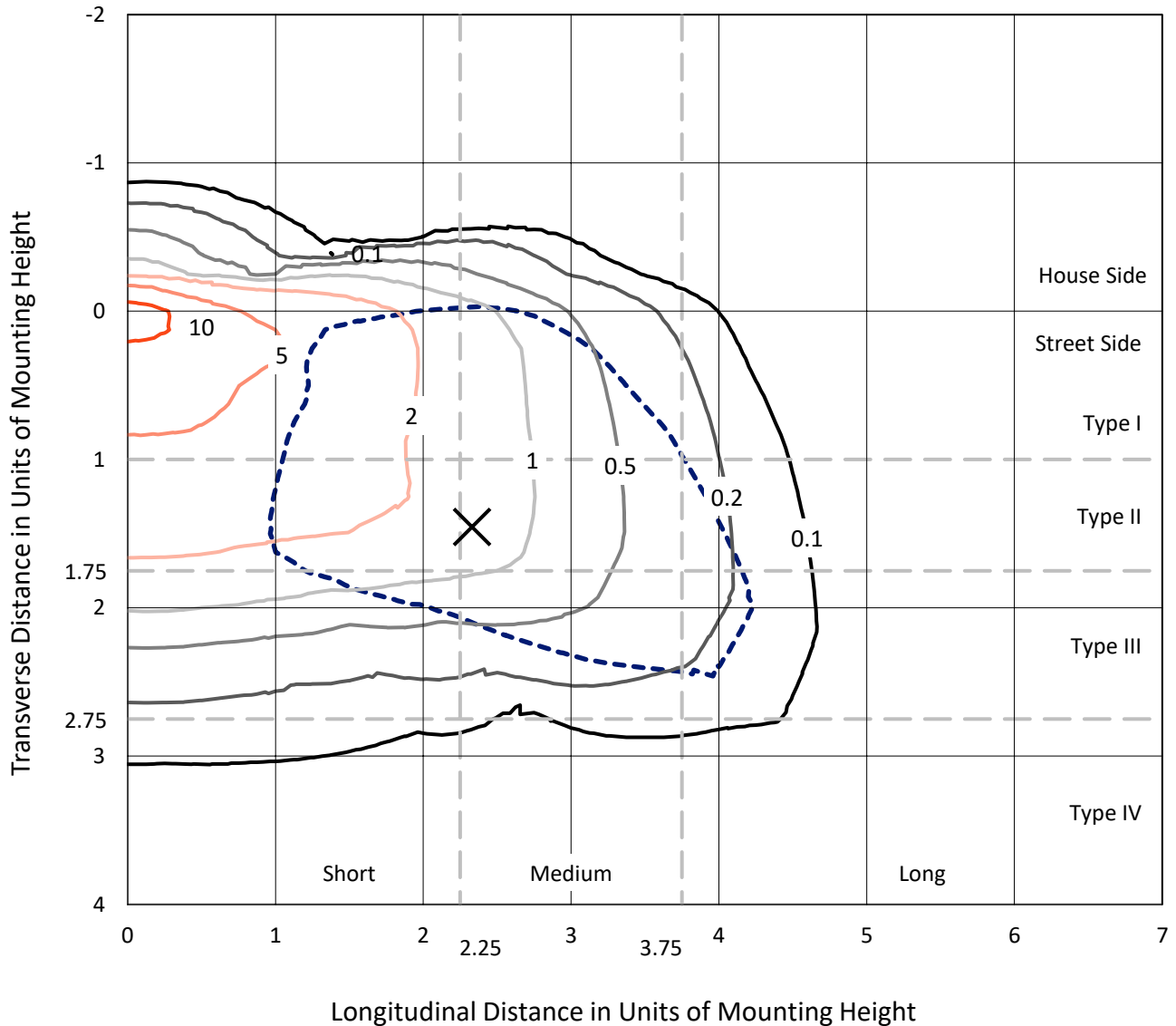
Lumens per Lamp: N/A  
Luminaire Lumens: 9310.1 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

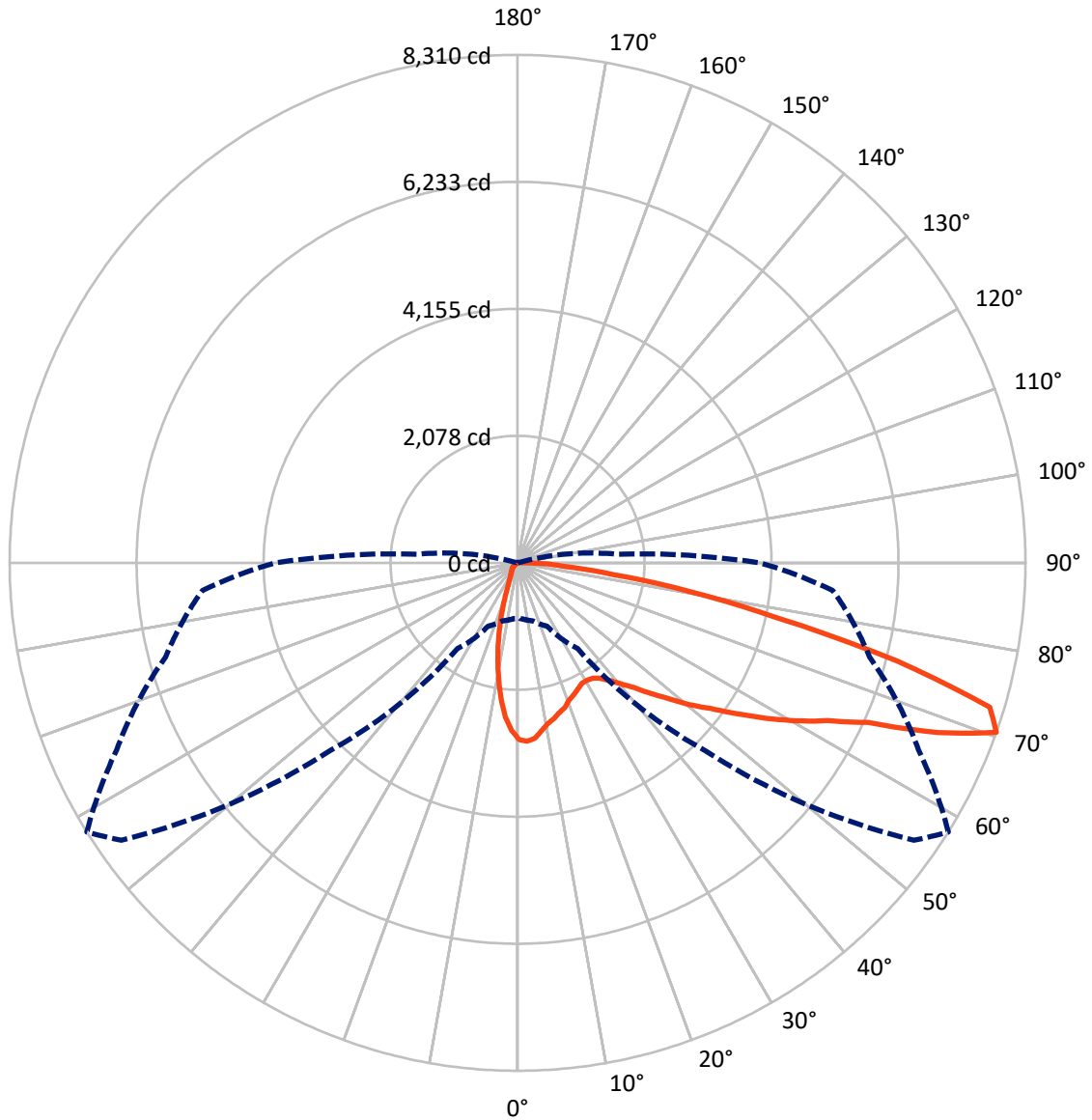
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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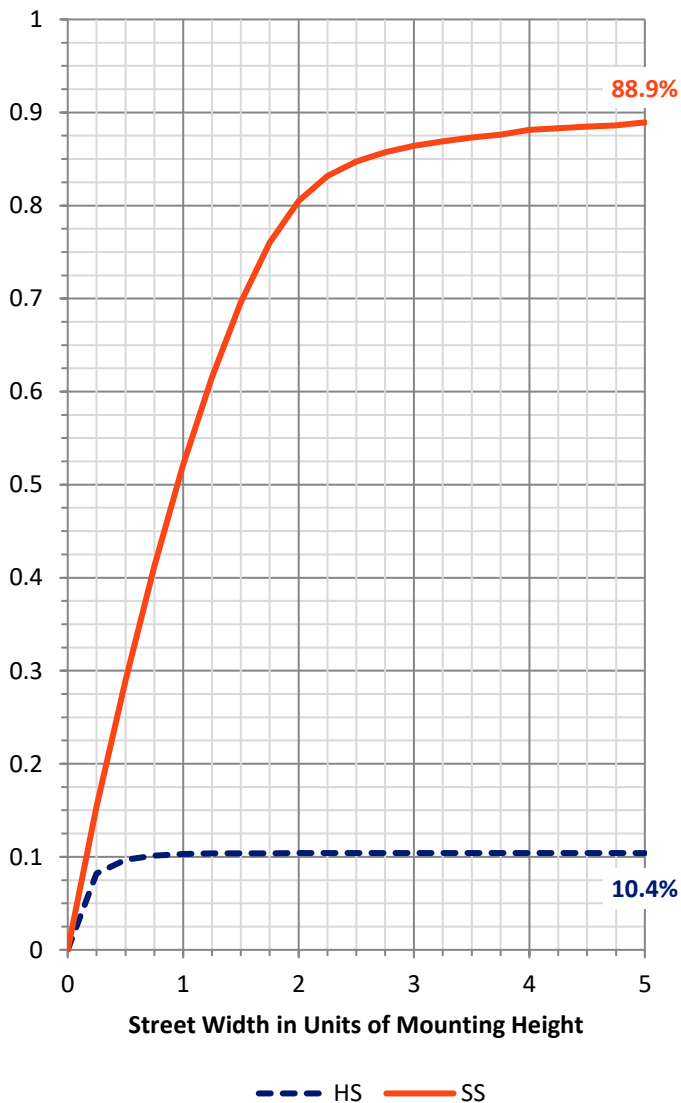
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	974.9	0.0	974.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8335.2	0.0	8335.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9310.1	0.0	9310.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	2.5
10°-20°	490.9	5.3
20°-30°	657.4	7.1
30°-40°	888.6	9.5
40°-50°	1275.4	13.7
50°-60°	1879.5	20.2
60°-70°	2292.5	24.6
70°-80°	1399.9	15.0
80°-90°	190.2	2.0
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°	9310.1	100.0
0°-180°	9310.1	100.0

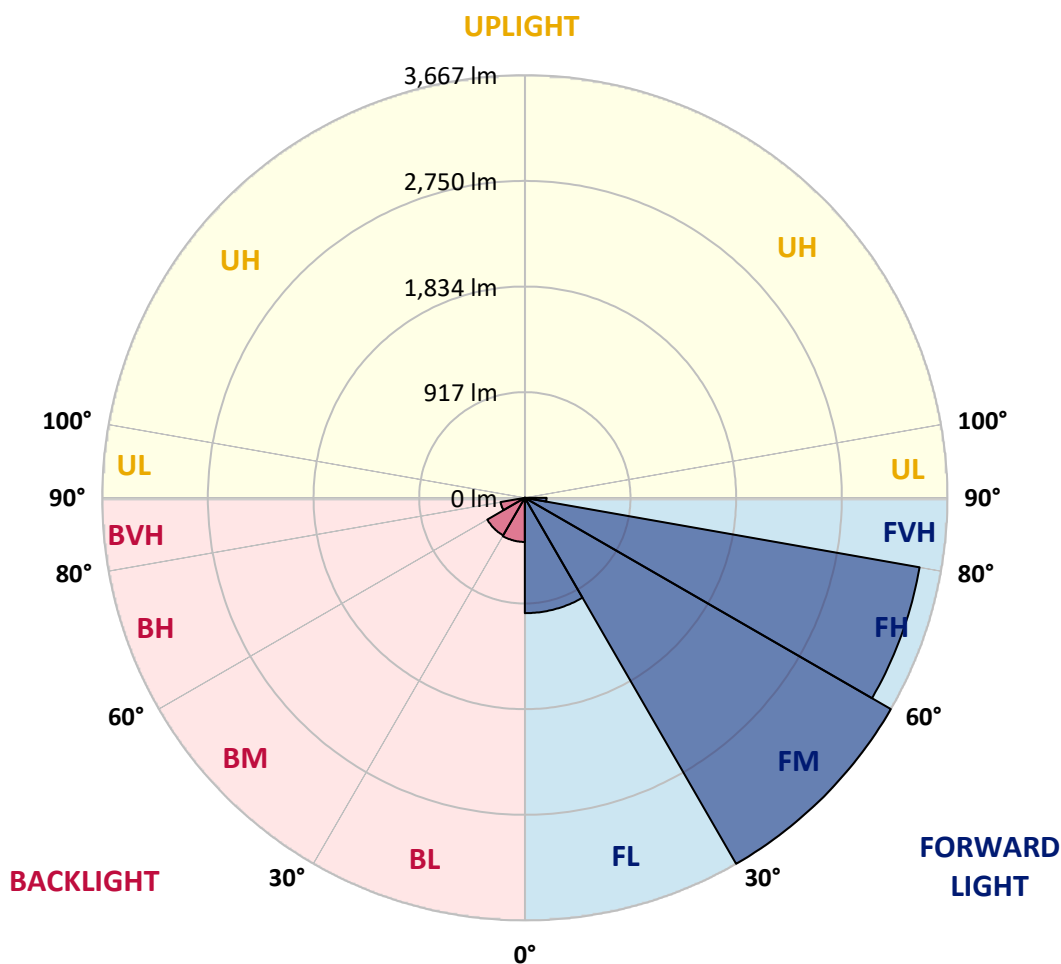


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.0	10.8			
FM (30°-60°)	3667.2	39.4			
FH (60°-80°)	3478.7	37.4			G2/5000
FVH (80°-90°)	188.3	2.0			G2/225
BL (0°-30°)	383.2	4.1	B1/500		
BM (30°-60°)	376.3	4.0	B1/1000		
BH (60°-80°)	213.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1
2.5°	2942.5	2953.4	2927.2	2957.8	2929.4	2942.5	2927.2	2922.9	2925.1	2927.2	2909.8
5°	2805.0	2831.2	2842.1	2824.7	2866.1	2859.6	2885.8	2888.0	2877.0	2866.1	2868.3
7.5°	2623.8	2650.0	2660.9	2671.9	2713.3	2767.9	2802.8	2781.0	2798.5	2837.8	2778.8
10°	2492.9	2486.3	2484.1	2506.0	2584.5	2630.4	2689.3	2682.8	2726.4	2763.5	2715.5
12.5°	2331.3	2318.2	2357.5	2375.0	2444.8	2525.6	2571.4	2619.5	2663.1	2702.4	2647.8
15°	2211.3	2222.2	2237.5	2274.6	2324.8	2431.7	2499.4	2545.2	2623.8	2643.5	2621.6
17.5°	2115.2	2123.9	2145.8	2165.4	2228.7	2331.3	2438.3	2492.9	2575.8	2628.2	2560.5
20°	2117.4	2091.2	2091.2	2110.8	2145.8	2268.0	2381.5	2399.0	2512.5	2602.0	2556.2
22.5°	2119.6	2110.8	2091.2	2089.0	2104.3	2191.6	2307.3	2346.6	2468.8	2573.6	2519.0
25°	2150.1	2117.4	2119.6	2089.0	2095.6	2139.2	2230.9	2289.8	2429.6	2588.9	2499.4
27.5°	2176.3	2191.6	2161.1	2148.0	2110.8	2108.7	2185.1	2235.3	2409.9	2623.8	2512.5
30°	2235.3	2246.2	2246.2	2237.5	2202.5	2152.3	2169.8	2233.1	2370.6	2617.3	2490.7
32.5°	2333.5	2313.9	2340.1	2327.0	2281.1	2202.5	2217.8	2250.6	2394.6	2700.2	2525.6
35°	2366.2	2381.5	2416.5	2388.1	2372.8	2327.0	2296.4	2320.4	2429.6	2783.2	2578.0
37.5°	2466.7	2444.8	2468.8	2532.1	2547.4	2464.5	2405.5	2440.5	2560.5	2881.4	2626.0
40°	2475.4	2492.9	2536.5	2660.9	2676.2	2641.3	2593.3	2602.0	2691.5	3008.0	2746.1
42.5°	2519.0	2538.7	2628.2	2733.0	2815.9	2822.5	2787.5	2787.5	2863.9	3211.0	2879.2
45°	2604.2	2571.4	2687.1	2863.9	2984.0	3008.0	3053.9	3042.9	3104.1	3424.9	3128.1
47.5°	2636.9	2647.8	2774.4	2988.4	3125.9	3237.2	3313.6	3315.8	3346.4	3697.8	3451.1
50°	2743.9	2741.7	2894.5	3093.1	3296.2	3499.2	3647.6	3647.6	3645.4	3964.1	3728.4
52.5°	2885.8	2881.4	2999.3	3235.0	3499.2	3754.6	3951.0	3957.6	4007.8	4291.6	4047.1
55°	3117.2	3097.5	3211.0	3385.7	3702.2	4012.1	4352.7	4354.9	4315.6	4525.1	4276.3
57.5°	3311.4	3309.3	3403.1	3571.2	3929.2	4343.9	4739.0	4798.0	4673.6	4765.2	4459.6
60°	3261.2	3289.6	3483.9	3732.7	4169.3	4758.7	5156.0	5247.7	5049.0	4929.0	4597.2
62.5°	2949.1	3014.6	3226.3	3623.6	4372.3	5361.2	5730.1	5688.6	5245.5	5068.7	4765.2
65°	2121.8	2187.3	2449.2	3045.1	4136.6	5786.8	6485.4	6297.6	5594.7	5276.0	4990.1
67.5°	1248.6	1274.8	1438.5	1942.8	3093.1	5555.4	7402.2	7417.4	6282.3	5594.7	5378.6
70°	901.5	921.2	984.5	1146.0	1713.6	4354.9	7913.0	8310.2	7236.3	5961.5	5173.4
72.5°	692.0	692.0	798.9	953.9	1091.4	2608.5	7282.1	8078.9	7443.6	5610.0	4169.3
75°	497.7	510.8	626.5	820.8	1006.3	1309.7	5365.5	6411.1	6308.5	4546.9	2912.0
77.5°	286.0	292.5	440.9	687.6	945.2	899.3	3315.8	4346.1	4468.4	2846.5	1261.7
80°	146.3	150.6	246.7	543.5	855.7	783.7	1977.7	2861.8	2427.4	827.3	292.5
82.5°	72.0	72.0	111.3	347.1	726.9	694.2	1163.5	1580.4	860.1	189.9	122.2
85°	24.0	26.2	50.2	196.5	526.1	419.1	711.6	750.9	288.1	72.0	67.7
87.5°	6.5	8.7	13.1	72.0	229.2	275.0	423.5	480.2	117.9	28.4	32.7
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°	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1	2890.1
2.5°	2844.3	2829.0	2811.6	2767.9	2733.0	2687.1	2656.6	2632.6	2586.7	2595.4	2575.8
5°	2815.9	2787.5	2687.1	2591.1	2503.8	2370.6	2278.9	2220.0	2172.0	2123.9	2158.9
7.5°	2765.7	2698.0	2540.9	2361.9	2176.3	2001.7	1827.1	1722.3	1645.9	1576.0	1573.9
10°	2680.6	2571.4	2324.8	2091.2	1805.2	1576.0	1353.4	1178.8	1065.2	982.3	980.1
12.5°	2584.5	2471.0	2161.1	1781.2	1451.6	1128.6	862.2	676.7	569.7	504.2	495.5
15°	2523.4	2357.5	1955.9	1506.2	1098.0	735.6	478.1	362.4	320.9	305.6	305.6
17.5°	2444.8	2254.9	1752.9	1220.2	761.8	425.7	310.0	279.4	277.2	272.9	268.5
20°	2412.1	2176.3	1571.7	973.6	482.4	301.2	266.3	259.8	259.8	255.4	251.0
22.5°	2324.8	2062.8	1379.6	713.8	320.9	264.1	251.0	242.3	237.9	233.6	237.9
25°	2285.5	1982.1	1198.4	493.3	261.9	235.8	229.2	220.5	213.9	211.7	211.7
27.5°	2259.3	1901.3	1021.6	342.7	231.4	216.1	203.0	196.5	187.7	179.0	179.0
30°	2239.6	1838.0	851.3	253.2	207.4	192.1	181.2	165.9	155.0	146.3	146.3
32.5°	2213.4	1763.8	681.1	216.1	187.7	172.4	152.8	139.7	124.4	117.9	117.9
35°	2222.2	1713.6	534.8	192.1	168.1	148.4	131.0	113.5	98.2	91.7	89.5
37.5°	2239.6	1676.5	406.0	172.4	150.6	128.8	109.1	89.5	80.8	72.0	72.0
40°	2313.9	1665.5	299.1	159.4	137.5	113.5	91.7	74.2	65.5	58.9	56.8
42.5°	2438.3	1680.8	231.4	144.1	124.4	96.0	76.4	61.1	52.4	45.8	43.7
45°	2597.6	1739.8	189.9	135.3	109.1	80.8	61.1	50.2	39.3	34.9	34.9
47.5°	2829.0	1831.4	165.9	124.4	96.0	67.7	52.4	39.3	30.6	26.2	26.2
50°	3091.0	1936.2	146.3	111.3	82.9	56.8	41.5	30.6	21.8	19.6	19.6
52.5°	3352.9	2069.4	135.3	102.6	72.0	45.8	32.7	21.8	15.3	13.1	13.1
55°	3628.0	2187.3	122.2	96.0	58.9	37.1	24.0	13.1	8.7	6.5	6.5
57.5°	3820.0	2233.1	107.0	82.9	45.8	28.4	17.5	8.7	4.4	2.2	2.2
60°	3957.6	2239.6	91.7	67.7	34.9	21.8	10.9	4.4	2.2	0.0	0.0
62.5°	4073.3	2252.7	78.6	52.4	26.2	15.3	6.5	2.2	0.0	0.0	0.0
65°	4302.5	2241.8	63.3	41.5	17.5	8.7	4.4	0.0	0.0	0.0	0.0
67.5°	4483.6	2132.7	50.2	28.4	10.9	4.4	2.2	0.0	0.0	0.0	0.0
70°	3966.3	1626.2	39.3	19.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	3115.0	1084.9	26.2	10.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2043.2	539.2	19.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	794.6	141.9	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	192.1	48.0	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.9	17.5	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.2	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	4.4	2.2	2.2	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)