

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: P677070

Luminaire Tested: **CCW-SA-2E-840-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677070  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-840-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) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

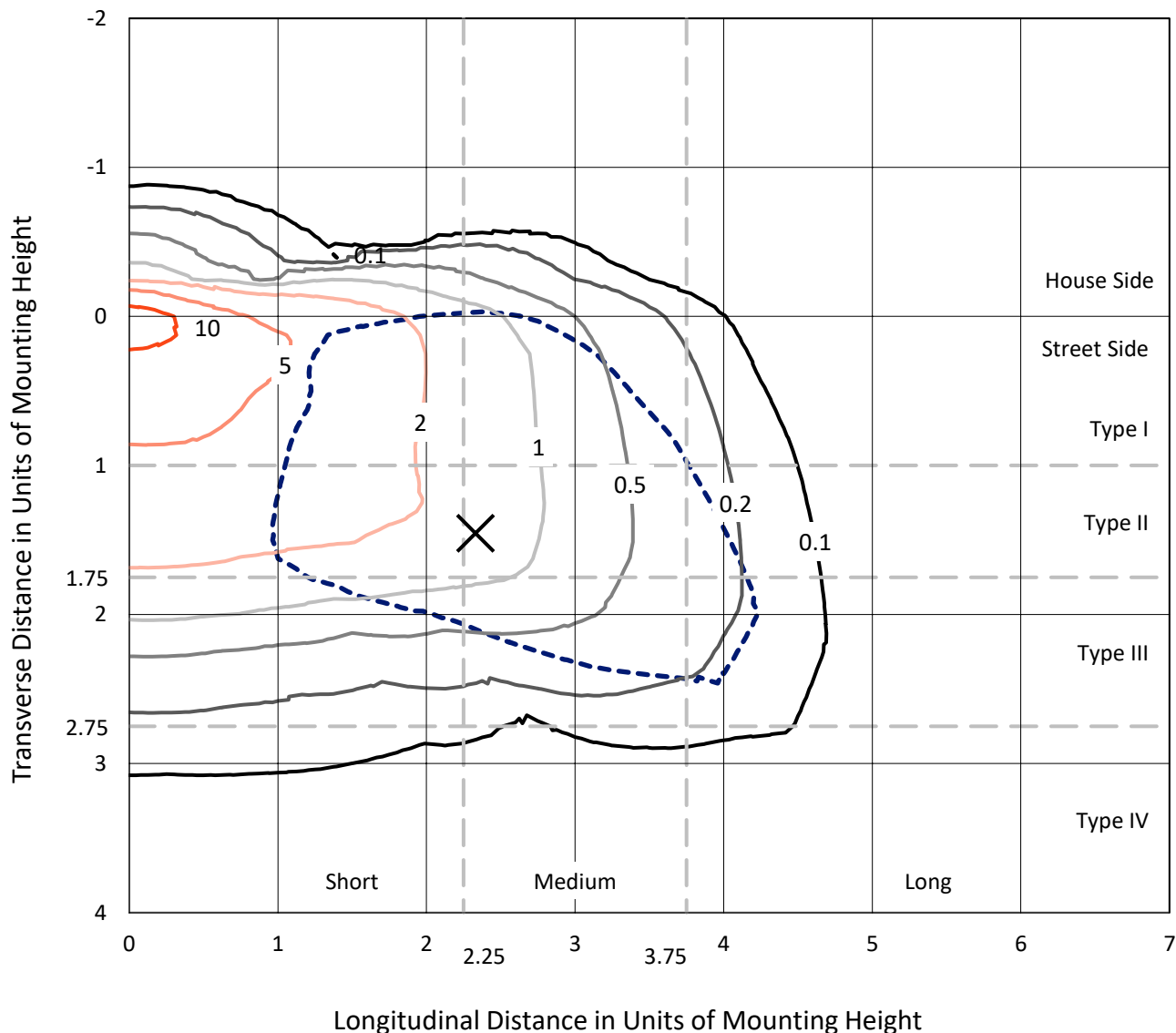
Lumens per Lamp: N/A  
Luminaire Lumens: 9633.3 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

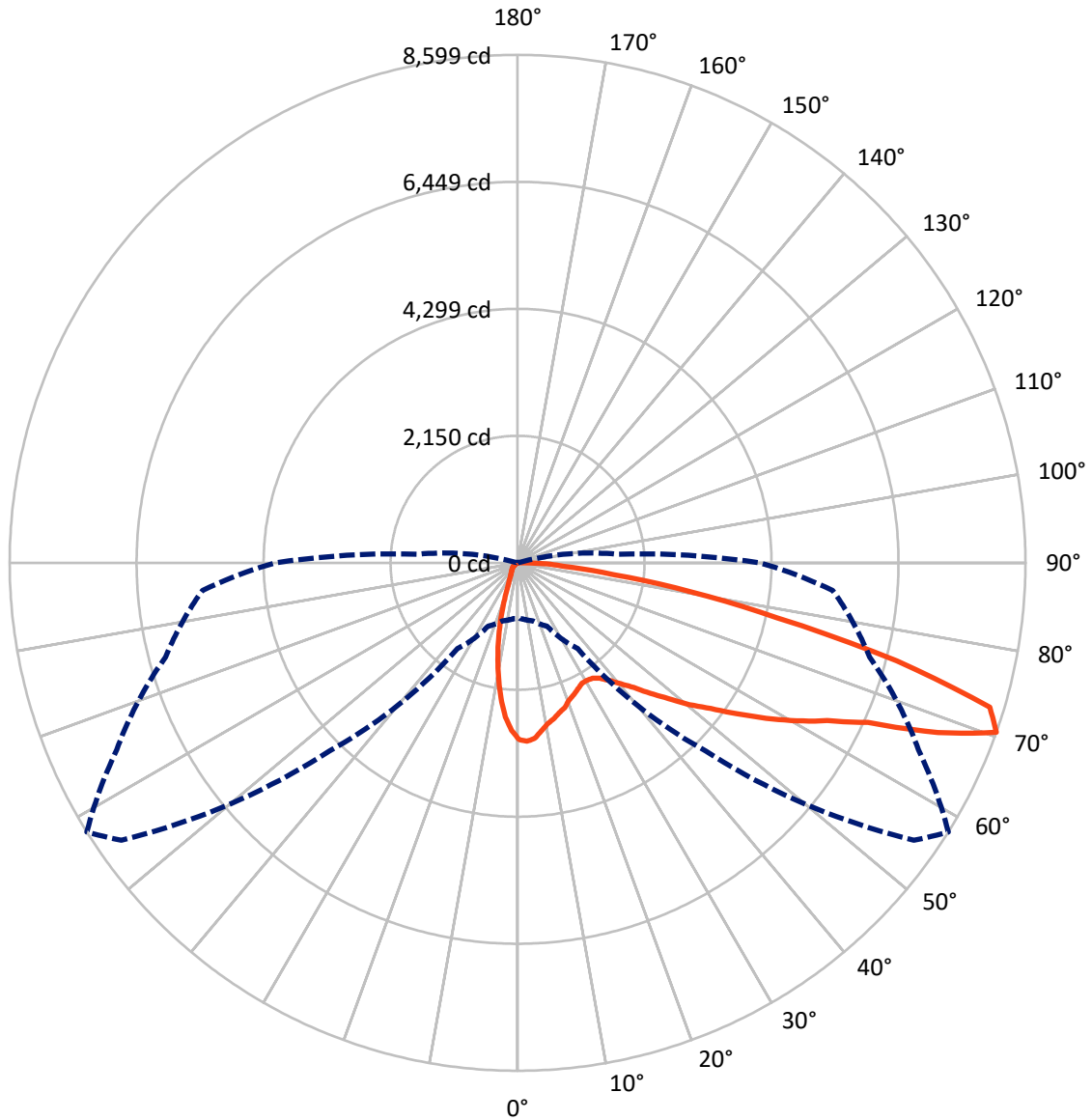
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.3 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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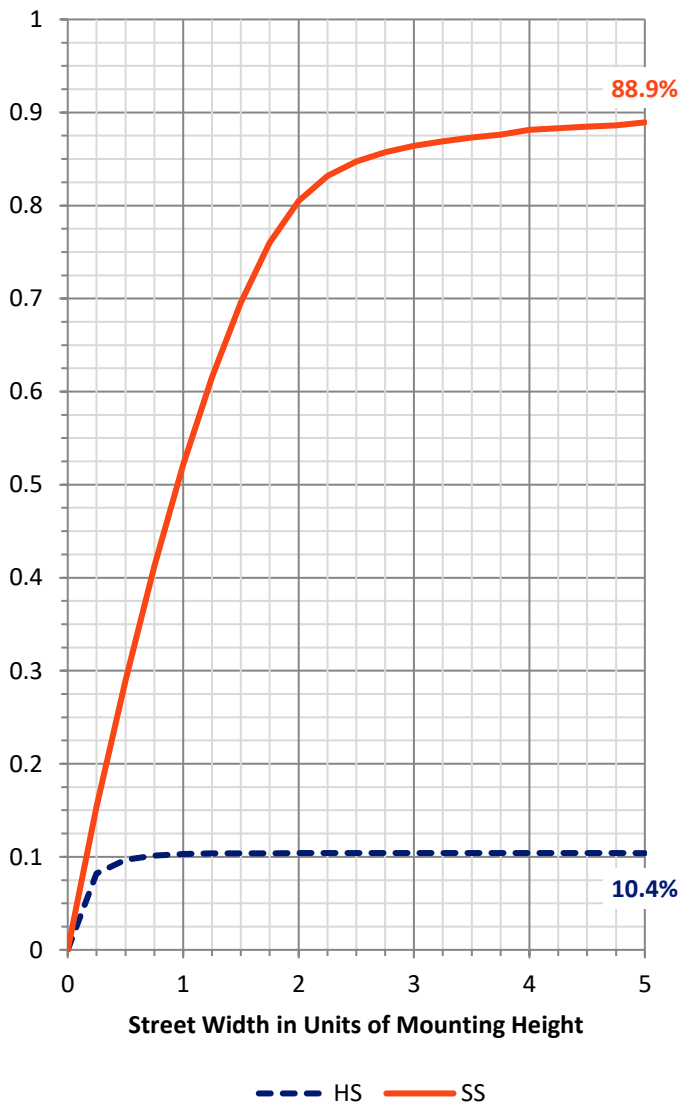
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1008.8	0.0	1008.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8624.5	0.0	8624.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9633.3	0.0	9633.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	2.5
10°-20°	508.0	5.3
20°-30°	680.2	7.1
30°-40°	919.5	9.5
40°-50°	1319.6	13.7
50°-60°	1944.7	20.2
60°-70°	2372.0	24.6
70°-80°	1448.5	15.0
80°-90°	196.8	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°	9633.3	100.0
0°-180°	9633.3	100.0

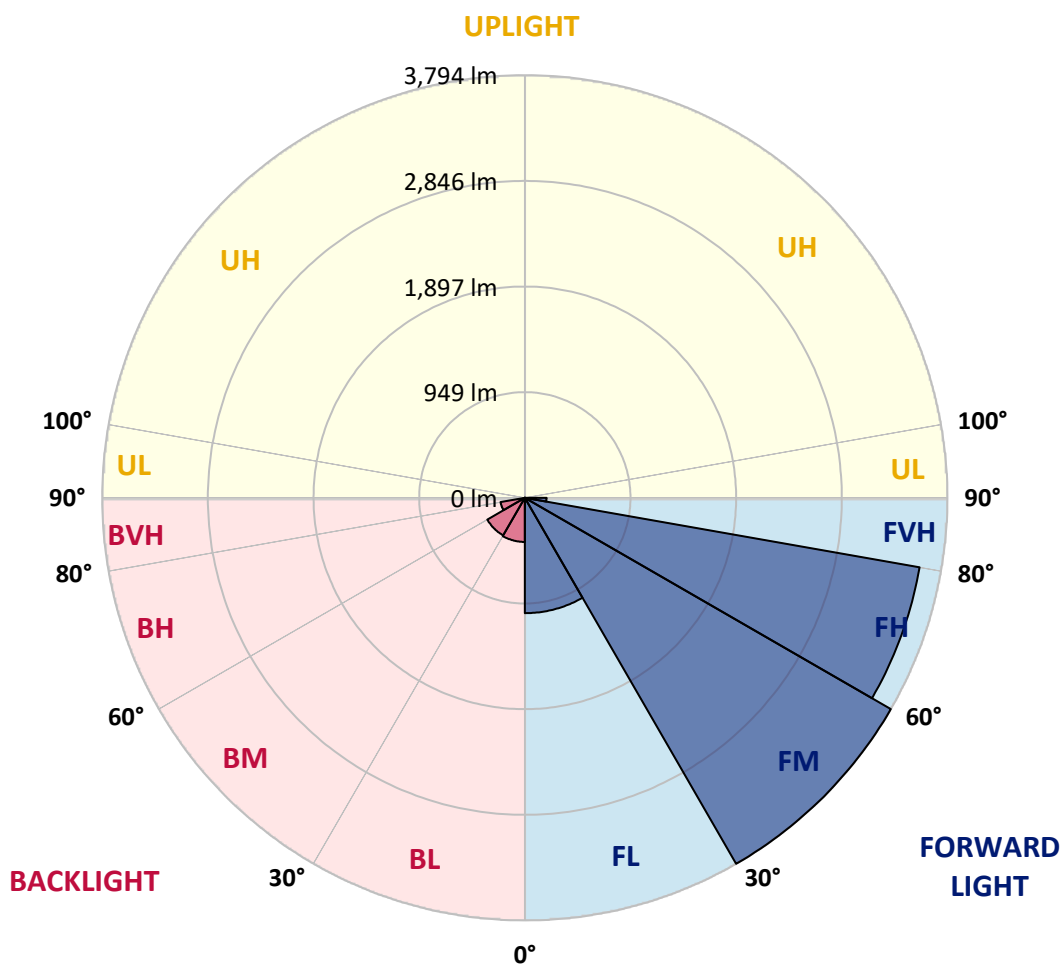


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.7	10.8			
FM (30°-60°)	3794.4	39.4			
FH (60°-80°)	3599.4	37.4			G2/5000
FVH (80°-90°)	194.9	2.0			G2/225
BL (0°-30°)	396.5	4.1	B1/500		
BM (30°-60°)	389.3	4.0	B1/1000		
BH (60°-80°)	221.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5
2.5°	3044.7	3056.0	3028.8	3060.5	3031.1	3044.7	3028.8	3024.3	3026.6	3028.8	3010.8
5°	2902.4	2929.5	2940.8	2922.7	2965.6	2958.8	2985.9	2988.2	2976.9	2965.6	2967.9
7.5°	2714.9	2742.0	2753.3	2764.6	2807.5	2864.0	2900.1	2877.5	2895.6	2936.2	2875.3
10°	2579.4	2572.6	2570.3	2592.9	2674.2	2721.7	2782.7	2775.9	2821.1	2859.5	2809.8
12.5°	2412.2	2398.7	2439.3	2457.4	2529.7	2613.3	2660.7	2710.4	2755.6	2796.2	2739.7
15°	2288.0	2299.3	2315.1	2353.5	2405.5	2516.1	2586.2	2633.6	2714.9	2735.2	2712.6
17.5°	2188.6	2197.7	2220.3	2240.6	2306.1	2412.2	2522.9	2579.4	2665.2	2719.4	2649.4
20°	2190.9	2163.8	2163.8	2184.1	2220.3	2346.7	2464.2	2482.3	2599.7	2692.3	2644.9
22.5°	2193.1	2184.1	2163.8	2161.5	2177.3	2267.7	2387.4	2428.0	2554.5	2662.9	2606.5
25°	2224.8	2190.9	2193.1	2161.5	2168.3	2213.5	2308.3	2369.3	2513.9	2678.8	2586.2
27.5°	2251.9	2267.7	2236.1	2222.5	2184.1	2181.9	2260.9	2312.9	2493.5	2714.9	2599.7
30°	2312.9	2324.2	2324.2	2315.1	2279.0	2227.0	2245.1	2310.6	2452.9	2708.1	2577.1
32.5°	2414.5	2394.2	2421.3	2407.7	2360.3	2279.0	2294.8	2328.7	2477.7	2793.9	2613.3
35°	2448.4	2464.2	2500.3	2471.0	2455.2	2407.7	2376.1	2400.9	2513.9	2879.8	2667.5
37.5°	2552.3	2529.7	2554.5	2620.0	2635.8	2550.0	2489.0	2525.2	2649.4	2981.4	2717.2
40°	2561.3	2579.4	2624.6	2753.3	2769.1	2733.0	2683.3	2692.3	2784.9	3112.4	2841.4
42.5°	2606.5	2626.8	2719.4	2827.8	2913.7	2920.4	2884.3	2884.3	2963.3	3322.5	2979.2
45°	2694.6	2660.7	2780.4	2963.3	3087.6	3112.4	3159.9	3148.6	3211.8	3543.8	3236.6
47.5°	2728.4	2739.7	2870.7	3092.1	3234.4	3349.6	3428.6	3430.9	3462.5	3826.2	3570.9
50°	2839.1	2836.9	2995.0	3200.5	3410.6	3620.6	3774.2	3774.2	3771.9	4101.7	3857.8
52.5°	2985.9	2981.4	3103.4	3347.3	3620.6	3884.9	4088.2	4094.9	4146.9	4440.5	4187.5
55°	3225.4	3205.0	3322.5	3503.2	3830.7	4151.4	4503.7	4506.0	4465.4	4682.2	4424.7
57.5°	3426.4	3424.1	3521.2	3695.2	4065.6	4494.7	4903.5	4964.5	4835.8	4930.6	4614.4
60°	3374.4	3403.8	3604.8	3862.3	4314.0	4923.9	5334.9	5429.8	5224.3	5100.0	4756.7
62.5°	3051.4	3119.2	3338.3	3749.4	4524.1	5547.2	5929.0	5886.0	5427.5	5244.6	4930.6
65°	2195.4	2263.2	2534.2	3150.8	4280.1	5987.7	6710.4	6516.2	5788.9	5459.2	5163.3
67.5°	1291.9	1319.1	1488.5	2010.2	3200.5	5748.3	7659.1	7674.9	6500.4	5788.9	5565.3
70°	932.8	953.2	1018.7	1185.8	1773.0	4506.0	8187.6	8598.7	7487.4	6168.4	5353.0
72.5°	716.0	716.0	826.7	987.0	1129.3	2699.1	7534.9	8359.3	7702.0	5804.7	4314.0
75°	515.0	528.5	648.2	849.3	1041.2	1355.2	5551.8	6633.7	6527.5	4704.8	3013.0
77.5°	295.9	302.7	456.2	711.5	978.0	930.6	3430.9	4497.0	4623.5	2945.3	1305.5
80°	151.3	155.8	255.2	562.4	885.4	810.9	2046.3	2961.1	2511.6	856.0	302.7
82.5°	74.5	74.5	115.2	359.1	752.1	718.3	1203.9	1635.3	889.9	196.5	126.5
85°	24.8	27.1	51.9	203.3	544.3	433.7	736.3	777.0	298.1	74.5	70.0
87.5°	6.8	9.0	13.6	74.5	237.2	284.6	438.2	496.9	122.0	29.4	33.9
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°	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5
2.5°	2943.0	2927.2	2909.1	2864.0	2827.8	2780.4	2748.8	2723.9	2676.5	2685.5	2665.2
5°	2913.7	2884.3	2780.4	2681.0	2590.7	2452.9	2358.0	2297.0	2247.4	2197.7	2233.8
7.5°	2861.7	2791.7	2629.1	2443.9	2251.9	2071.2	1890.5	1782.1	1703.0	1630.7	1628.5
10°	2773.6	2660.7	2405.5	2163.8	1867.9	1630.7	1400.4	1219.7	1102.2	1016.4	1014.1
12.5°	2674.2	2556.8	2236.1	1843.1	1502.0	1167.7	892.2	700.2	589.5	521.7	512.7
15°	2611.0	2439.3	2023.8	1558.5	1136.1	761.2	494.6	374.9	332.0	316.2	316.2
17.5°	2529.7	2333.2	1813.7	1262.6	788.3	440.4	320.7	289.1	286.8	282.3	277.8
20°	2495.8	2251.9	1626.2	1007.4	499.2	311.7	275.6	268.8	268.8	264.3	259.7
22.5°	2405.5	2134.4	1427.5	738.6	332.0	273.3	259.7	250.7	246.2	241.7	246.2
25°	2364.8	2050.9	1240.0	510.5	271.0	243.9	237.2	228.1	221.3	219.1	219.1
27.5°	2337.7	1967.3	1057.0	354.6	239.4	223.6	210.1	203.3	194.2	185.2	185.2
30°	2317.4	1901.8	880.9	262.0	214.6	198.8	187.5	171.7	160.4	151.3	151.3
32.5°	2290.3	1825.0	704.7	223.6	194.2	178.4	158.1	144.6	128.7	122.0	122.0
35°	2299.3	1773.0	553.4	198.8	173.9	153.6	135.5	117.4	101.6	94.9	92.6
37.5°	2317.4	1734.6	420.1	178.4	155.8	133.3	112.9	92.6	83.6	74.5	74.5
40°	2394.2	1723.3	309.4	164.9	142.3	117.4	94.9	76.8	67.8	61.0	58.7
42.5°	2522.9	1739.2	239.4	149.1	128.7	99.4	79.1	63.2	54.2	47.4	45.2
45°	2687.8	1800.1	196.5	140.0	112.9	83.6	63.2	51.9	40.7	36.1	36.1
47.5°	2927.2	1895.0	171.7	128.7	99.4	70.0	54.2	40.7	31.6	27.1	27.1
50°	3198.2	2003.4	151.3	115.2	85.8	58.7	42.9	31.6	22.6	20.3	20.3
52.5°	3469.3	2141.2	140.0	106.2	74.5	47.4	33.9	22.6	15.8	13.6	13.6
55°	3753.9	2263.2	126.5	99.4	61.0	38.4	24.8	13.6	9.0	6.8	6.8
57.5°	3952.6	2310.6	110.7	85.8	47.4	29.4	18.1	9.0	4.5	2.3	2.3
60°	4094.9	2317.4	94.9	70.0	36.1	22.6	11.3	4.5	2.3	0.0	0.0
62.5°	4214.6	2330.9	81.3	54.2	27.1	15.8	6.8	2.3	0.0	0.0	0.0
65°	4451.8	2319.6	65.5	42.9	18.1	9.0	4.5	0.0	0.0	0.0	0.0
67.5°	4639.3	2206.7	51.9	29.4	11.3	4.5	2.3	0.0	0.0	0.0	0.0
70°	4104.0	1682.7	40.7	20.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	3223.1	1122.5	27.1	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0
75°	2114.1	557.9	20.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	822.1	146.8	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.8	49.7	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.8	18.1	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.9	9.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.1	4.5	2.3	2.3	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)