

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: P671477

Luminaire Tested: **CCP-SA-2E-850-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671477  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-850-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL3 distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

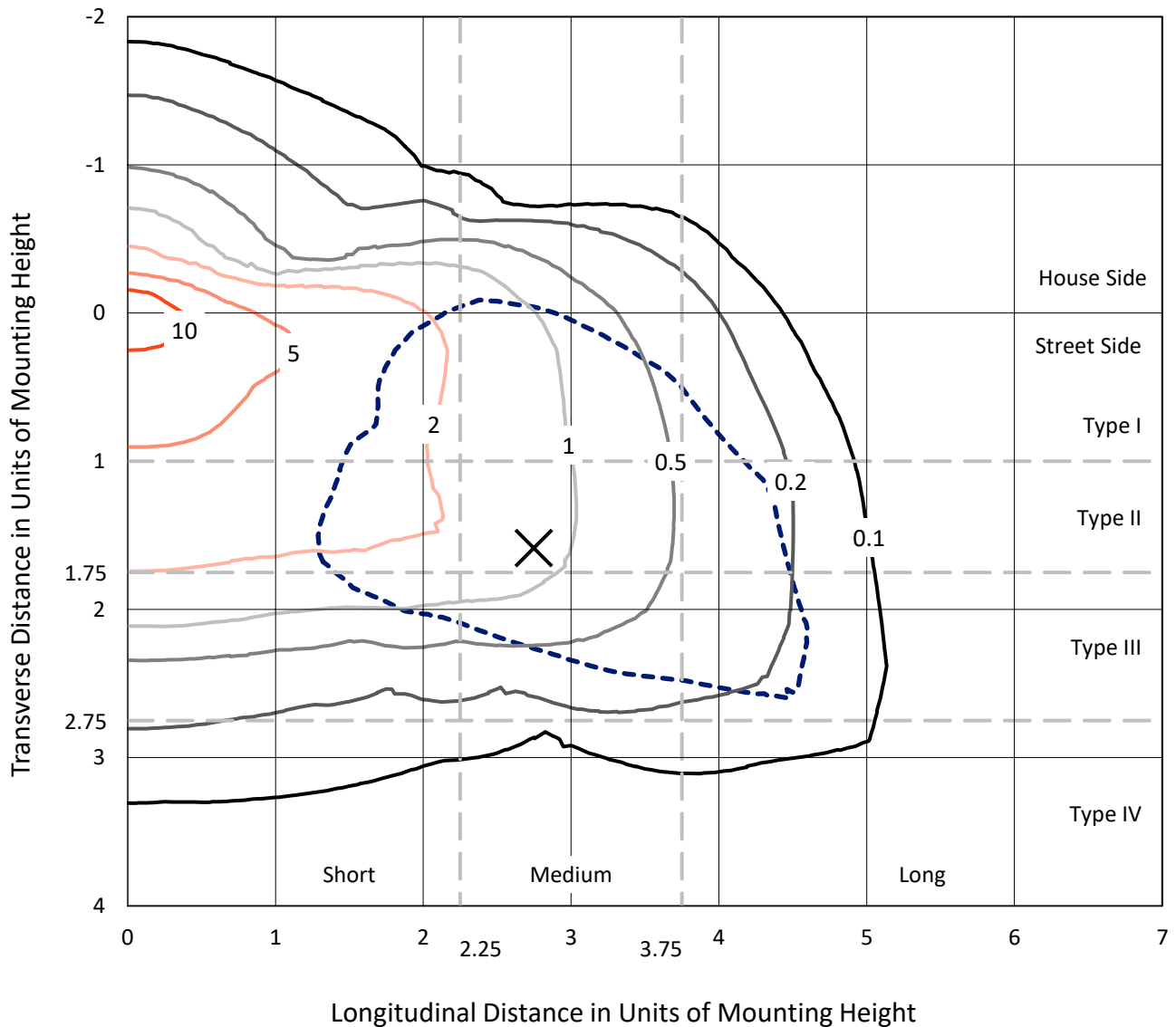
Lumens per Lamp: N/A  
Luminaire Lumens: 11796.7 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

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

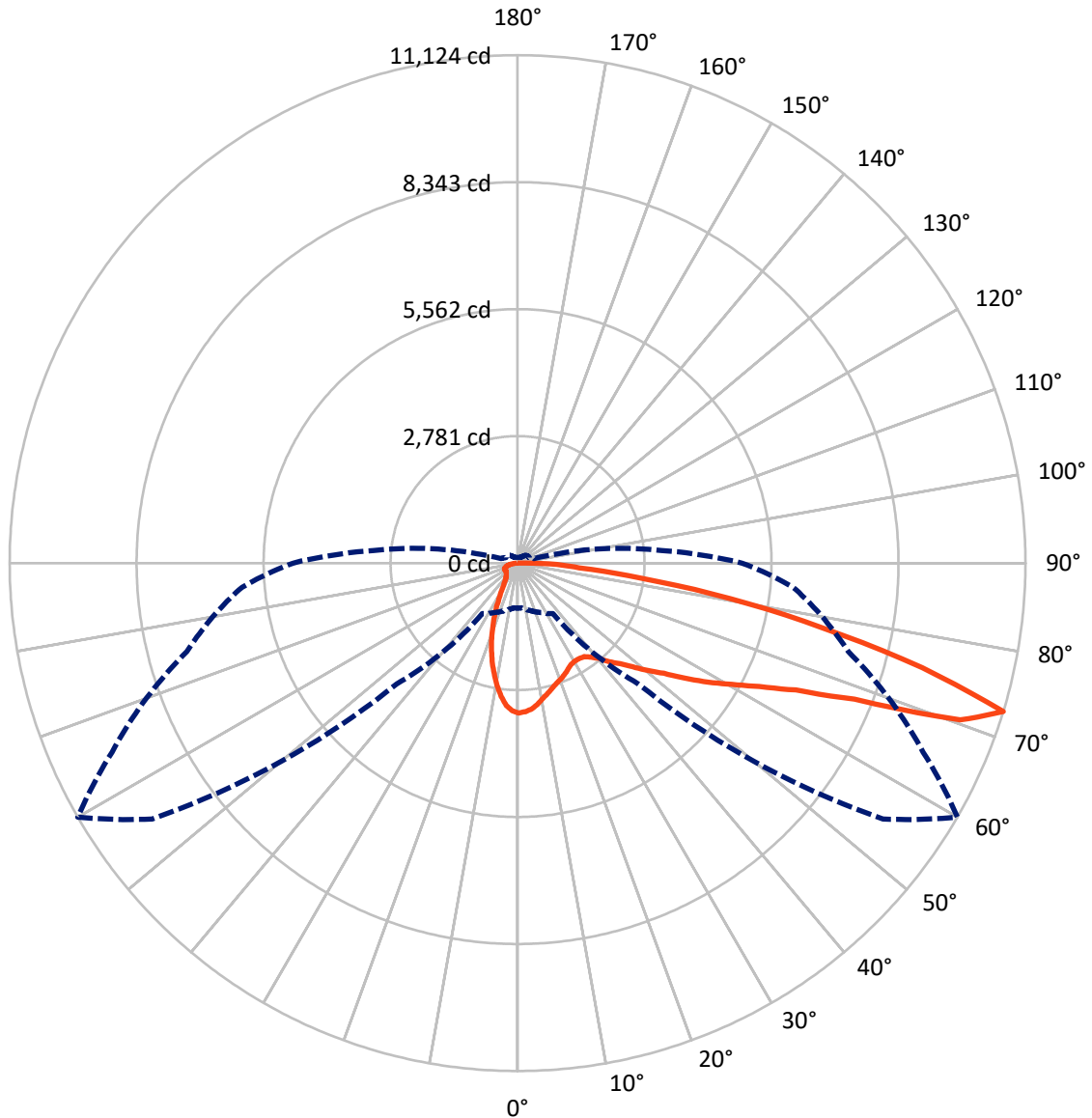
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.6 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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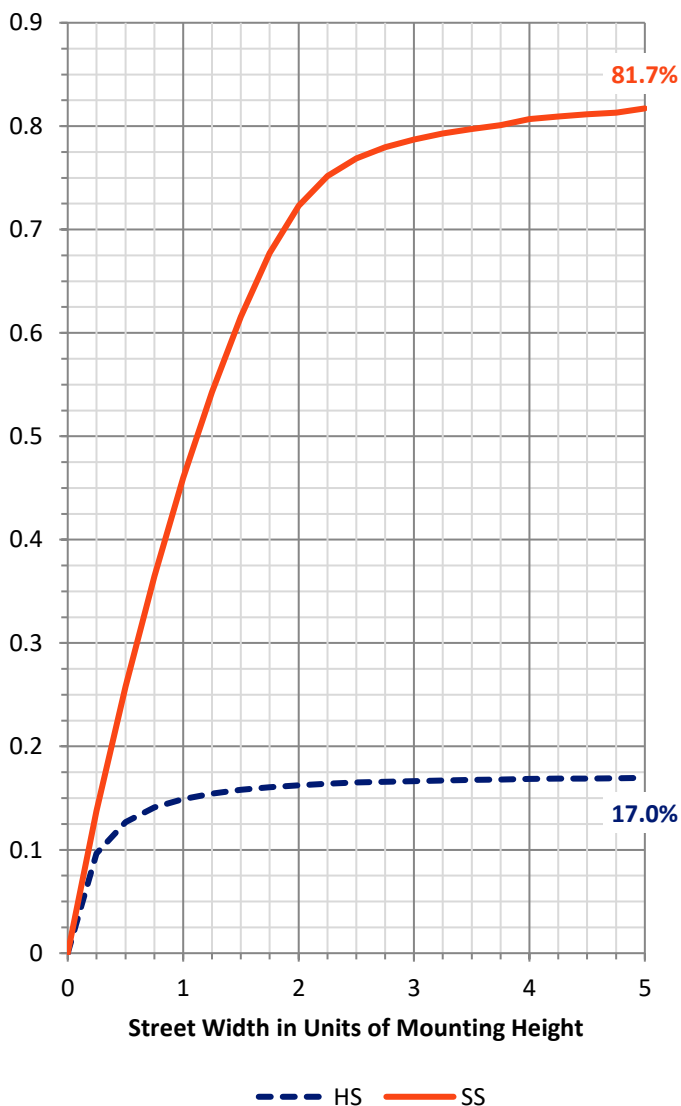
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2026.5	0.0	2026.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9770.3	0.0	9770.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	11796.7	0.0	11796.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.7	2.4
10°-20°	645.6	5.5
20°-30°	826.3	7.0
30°-40°	1057.0	9.0
40°-50°	1449.7	12.3
50°-60°	2096.9	17.8
60°-70°	2876.6	24.4
70°-80°	2158.6	18.3
80°-90°	401.2	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°	11796.7	100.0
0°-180°	11796.7	100.0



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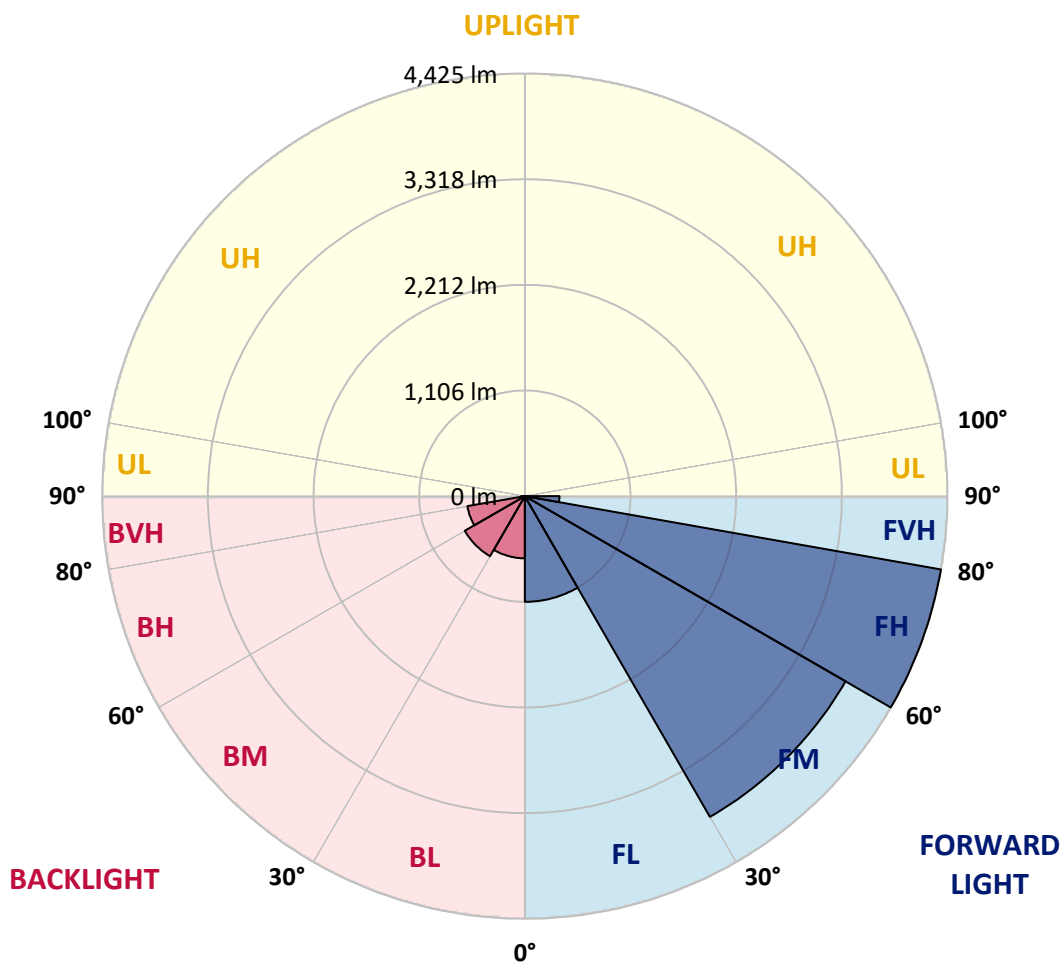
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.1	9.4			
FM (30°-60°)	3877.5	32.9			
FH (60°-80°)	4424.5	37.5			G2/5000
FVH (80°-90°)	362.1	3.1			G3/500
BL (0°-30°)	650.5	5.5	B2/1000		
BM (30°-60°)	726.2	6.2	B1/1000		
BH (60°-80°)	610.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	39.1	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°	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8
2.5°	3214.6	3245.3	3254.1	3254.1	3280.4	3249.7	3293.6	3258.5	3267.2	3280.4	3271.6
5°	3060.8	3113.5	3082.8	3139.9	3117.9	3157.5	3210.2	3210.2	3197.0	3223.3	3201.4
7.5°	2911.5	2894.0	2946.7	2946.7	2981.8	3034.5	3078.4	3122.3	3126.7	3135.5	3131.1
10°	2709.5	2731.5	2757.8	2793.0	2836.9	2889.6	2981.8	3016.9	3025.7	3078.4	3065.2
12.5°	2542.7	2573.4	2591.0	2661.2	2700.7	2775.4	2880.8	2929.1	2933.5	3008.2	3008.2
15°	2419.7	2437.3	2476.8	2503.1	2591.0	2696.4	2797.4	2841.3	2889.6	2968.6	2946.7
17.5°	2336.3	2358.2	2375.8	2410.9	2494.4	2582.2	2740.3	2766.6	2823.7	2937.9	2911.5
20°	2288.0	2292.3	2318.7	2340.6	2415.3	2498.7	2639.3	2709.5	2784.2	2885.2	2858.8
22.5°	2296.7	2279.2	2274.8	2305.5	2318.7	2397.7	2569.0	2643.7	2749.1	2867.6	2823.7
25°	2314.3	2318.7	2309.9	2283.6	2288.0	2358.2	2472.4	2569.0	2687.6	2863.2	2775.4
27.5°	2358.2	2380.2	2345.0	2318.7	2292.3	2318.7	2437.3	2507.5	2639.3	2885.2	2771.0
30°	2402.1	2424.1	2415.3	2375.8	2323.1	2314.3	2397.7	2485.6	2612.9	2902.8	2771.0
32.5°	2468.0	2498.7	2468.0	2481.2	2419.7	2380.2	2410.9	2490.0	2639.3	2964.2	2775.4
35°	2542.7	2569.0	2577.8	2547.0	2533.9	2459.2	2476.8	2516.3	2665.6	3034.5	2819.3
37.5°	2626.1	2656.8	2683.2	2687.6	2643.7	2599.7	2591.0	2612.9	2731.5	3157.5	2867.6
40°	2683.2	2700.7	2753.4	2797.4	2810.5	2749.1	2744.7	2744.7	2850.1	3267.2	2955.5
42.5°	2779.8	2771.0	2845.7	2924.7	2946.7	2911.5	2920.3	2955.5	3016.9	3425.3	3096.0
45°	2828.1	2819.3	2907.1	3038.9	3139.9	3122.3	3131.1	3144.3	3201.4	3675.7	3333.1
47.5°	2894.0	2902.8	3030.1	3179.4	3284.8	3346.3	3394.6	3390.2	3434.1	3930.4	3596.6
50°	2959.8	2977.4	3131.1	3289.2	3473.6	3579.0	3649.3	3697.6	3741.5	4198.2	3899.6
52.5°	3087.2	3104.8	3276.0	3447.3	3684.4	3838.1	4013.8	4009.4	4013.8	4466.1	4202.6
55°	3271.6	3276.0	3377.0	3574.7	3895.2	4176.3	4417.8	4444.2	4369.5	4799.9	4549.6
57.5°	3482.4	3500.0	3587.8	3737.1	4062.1	4501.2	4870.1	4922.8	4720.8	5072.1	4865.7
60°	3680.0	3693.2	3829.4	4000.6	4351.9	4909.7	5326.8	5388.3	5168.8	5405.9	5195.1
62.5°	3456.1	3522.0	3763.5	4154.3	4861.3	5528.9	5906.5	5946.0	5603.5	5744.0	5546.4
65°	2766.6	2810.5	3157.5	3789.8	4896.5	6653.1	6802.4	6697.0	6200.7	6178.8	6077.8
67.5°	1541.4	1576.5	1813.7	2476.8	4123.6	7074.6	8730.2	7957.3	7127.3	6833.1	6798.0
70°	1216.4	1225.2	1256.0	1392.1	2288.0	6235.9	10249.7	10284.8	8642.4	7733.4	6951.7
72.5°	988.1	983.7	1075.9	1194.5	1352.6	3741.5	9771.0	11123.6	9801.7	7496.2	6055.8
75°	755.3	768.5	887.1	1058.3	1238.4	1761.0	7289.8	9151.8	9182.5	6986.8	5107.3
77.5°	575.3	579.7	711.4	935.4	1212.0	1242.8	4756.0	6819.9	6850.7	5410.3	2814.9
80°	430.4	430.4	540.1	790.5	1181.3	1146.2	2929.1	4729.6	4281.7	1901.5	614.8
82.5°	245.9	263.5	360.1	601.6	1071.5	1102.3	1651.2	2709.5	1809.3	518.2	285.4
85°	131.7	136.1	219.6	404.0	882.7	1054.0	1260.3	1348.2	720.2	276.7	131.7
87.5°	48.3	48.3	101.0	206.4	557.7	781.7	1001.3	860.7	412.8	127.4	65.9
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°	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8
2.5°	3280.4	3262.9	3249.7	3262.9	3214.6	3192.6	3218.9	3205.8	3179.4	3166.2	3157.5
5°	3214.6	3192.6	3170.6	3157.5	3104.8	3052.1	3025.7	2973.0	2929.1	2942.3	2915.9
7.5°	3144.3	3122.3	3056.5	2995.0	2889.6	2784.2	2735.9	2661.2	2634.9	2612.9	2599.7
10°	3056.5	3016.9	2915.9	2793.0	2639.3	2520.7	2397.7	2309.9	2217.7	2178.2	2191.3
12.5°	2946.7	2924.7	2766.6	2577.8	2362.6	2165.0	2020.1	1879.5	1756.6	1690.7	1673.1
15°	2898.4	2832.5	2604.1	2353.8	2081.6	1835.6	1620.4	1374.5	1229.6	1159.3	1159.3
17.5°	2845.7	2722.7	2450.4	2107.9	1796.1	1479.9	1176.9	952.9	838.8	799.2	799.2
20°	2762.2	2626.1	2270.4	1875.2	1497.5	1115.4	843.2	720.2	685.1	658.7	663.1
22.5°	2700.7	2533.9	2103.5	1646.8	1185.7	830.0	663.1	623.6	610.4	601.6	606.0
25°	2630.5	2424.1	1927.9	1400.9	931.0	654.3	575.3	557.7	566.5	570.9	570.9
27.5°	2573.4	2331.9	1747.8	1137.4	702.6	553.3	518.2	513.8	531.4	540.1	544.5
30°	2533.9	2248.4	1572.1	895.9	562.1	491.8	474.3	474.3	496.2	505.0	509.4
32.5°	2494.4	2178.2	1383.3	685.1	478.7	439.1	434.8	439.1	452.3	452.3	456.7
35°	2507.5	2112.3	1203.3	553.3	430.4	404.0	404.0	404.0	408.4	412.8	412.8
37.5°	2533.9	2094.7	1010.0	465.5	395.2	377.7	377.7	373.3	377.7	373.3	377.7
40°	2560.2	2068.4	834.4	412.8	373.3	360.1	355.7	346.9	342.5	342.5	346.9
42.5°	2670.0	2103.5	685.1	377.7	355.7	346.9	333.8	325.0	320.6	320.6	320.6
45°	2810.5	2169.4	566.5	360.1	342.5	320.6	311.8	307.4	298.6	303.0	307.4
47.5°	3021.3	2270.4	496.2	346.9	329.4	303.0	294.2	285.4	285.4	294.2	294.2
50°	3298.0	2437.3	452.3	333.8	316.2	289.8	276.7	272.3	272.3	285.4	285.4
52.5°	3596.6	2630.5	434.8	329.4	303.0	276.7	263.5	259.1	259.1	276.7	276.7
55°	3895.2	2867.6	447.9	329.4	294.2	263.5	250.3	241.5	245.9	259.1	259.1
57.5°	4224.6	3122.3	513.8	329.4	285.4	259.1	241.5	228.4	232.7	237.1	237.1
60°	4584.7	3456.1	628.0	329.4	281.1	250.3	228.4	210.8	210.8	215.2	215.2
62.5°	4949.2	3785.4	790.5	333.8	285.4	245.9	210.8	193.2	188.8	193.2	193.2
65°	5427.8	4312.4	952.9	333.8	298.6	237.1	197.6	175.7	171.3	171.3	175.7
67.5°	6099.7	4690.1	737.8	320.6	307.4	237.1	184.4	162.5	153.7	153.7	153.7
70°	5744.0	3956.7	469.9	298.6	294.2	245.9	175.7	149.3	140.5	136.1	136.1
72.5°	4918.4	3166.2	377.7	281.1	272.3	241.5	166.9	140.5	127.4	123.0	123.0
75°	3943.5	2498.7	329.4	254.7	237.1	202.0	153.7	127.4	118.6	109.8	109.8
77.5°	1932.2	1045.2	250.3	224.0	202.0	153.7	136.1	118.6	105.4	96.6	96.6
80°	483.1	364.5	184.4	175.7	149.3	118.6	109.8	101.0	92.2	83.4	83.4
82.5°	259.1	215.2	131.7	118.6	101.0	83.4	83.4	79.0	74.7	65.9	61.5
85°	131.7	127.4	87.8	79.0	65.9	52.7	57.1	57.1	52.7	39.5	39.5
87.5°	70.3	70.3	43.9	35.1	30.7	26.3	26.3	26.3	22.0	17.6	17.6
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)