

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: P677003

Luminaire Tested: **CCW-SA-2D-740-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677003  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-740-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

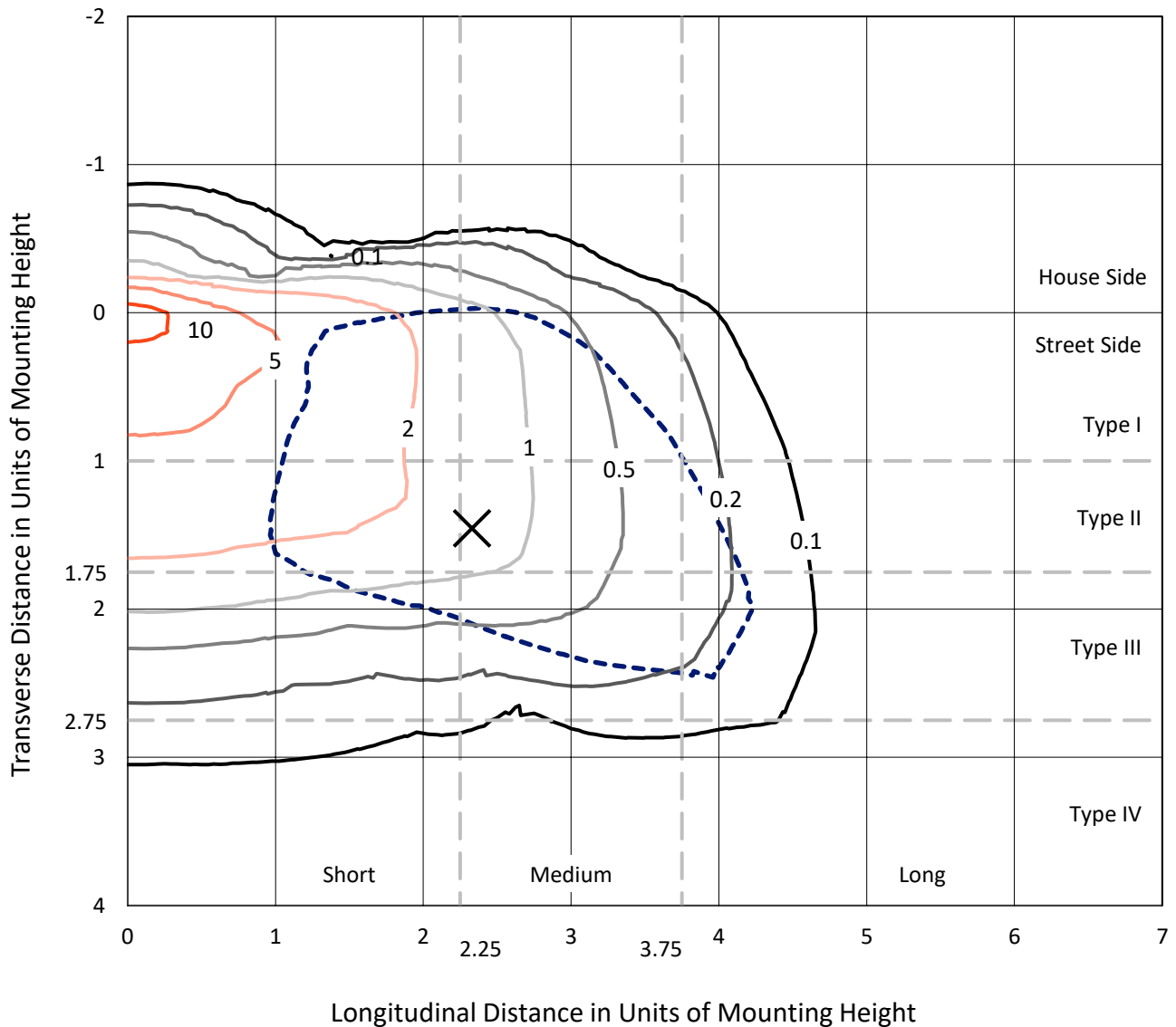
Lumens per Lamp: N/A  
Luminaire Lumens: 9216.1 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

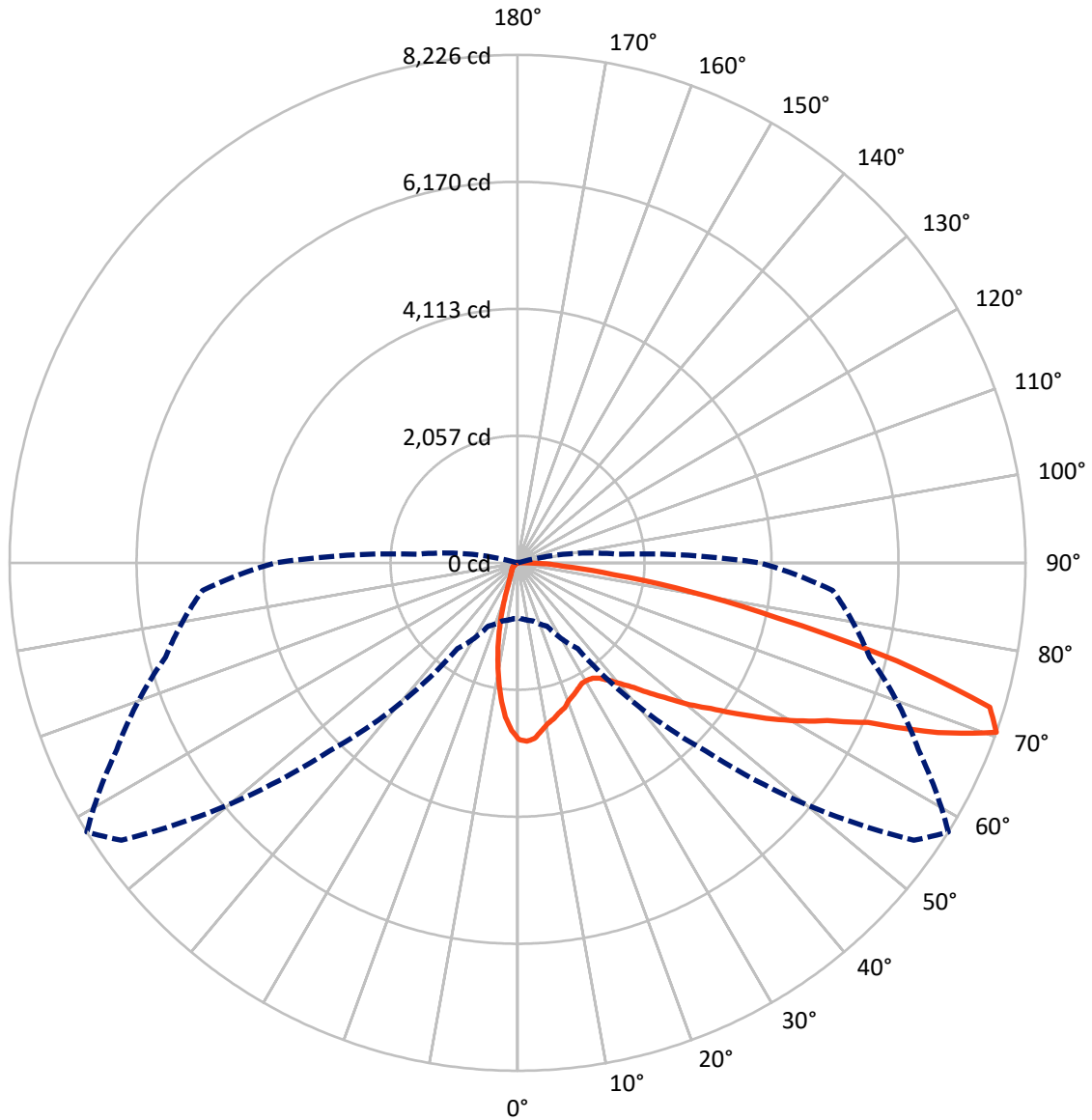
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.7 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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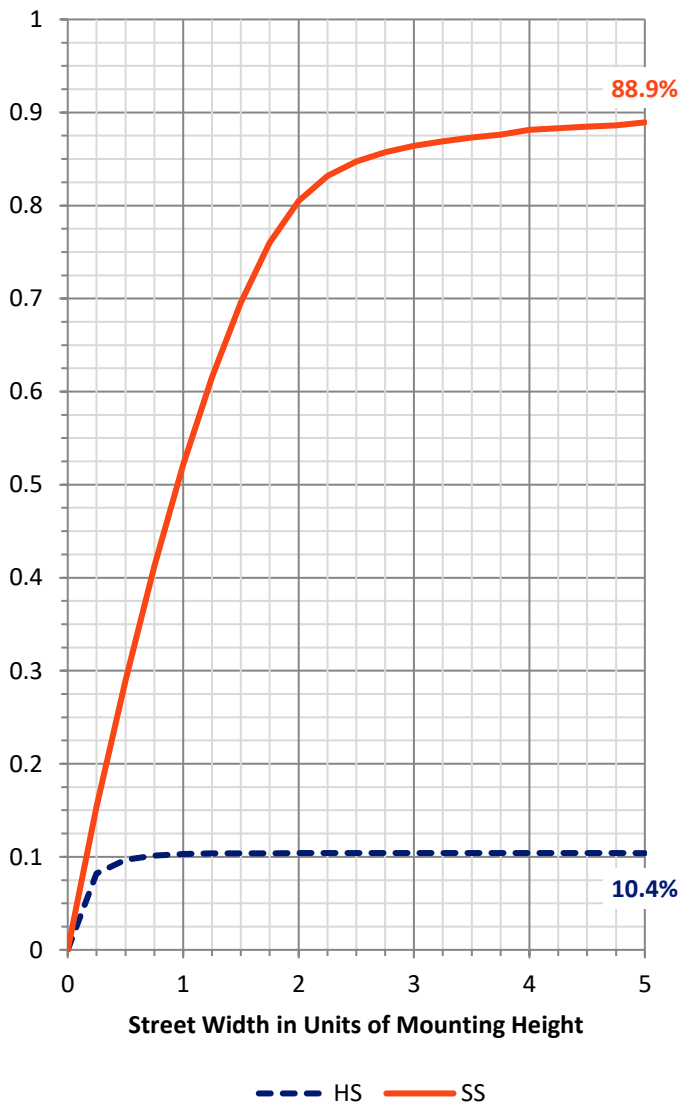
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	965.1	0.0	965.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8251.0	0.0	8251.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9216.1	0.0	9216.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	2.5
10°-20°	486.0	5.3
20°-30°	650.7	7.1
30°-40°	879.6	9.5
40°-50°	1262.5	13.7
50°-60°	1860.5	20.2
60°-70°	2269.3	24.6
70°-80°	1385.7	15.0
80°-90°	188.3	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°	9216.1	100.0
0°-180°	9216.1	100.0

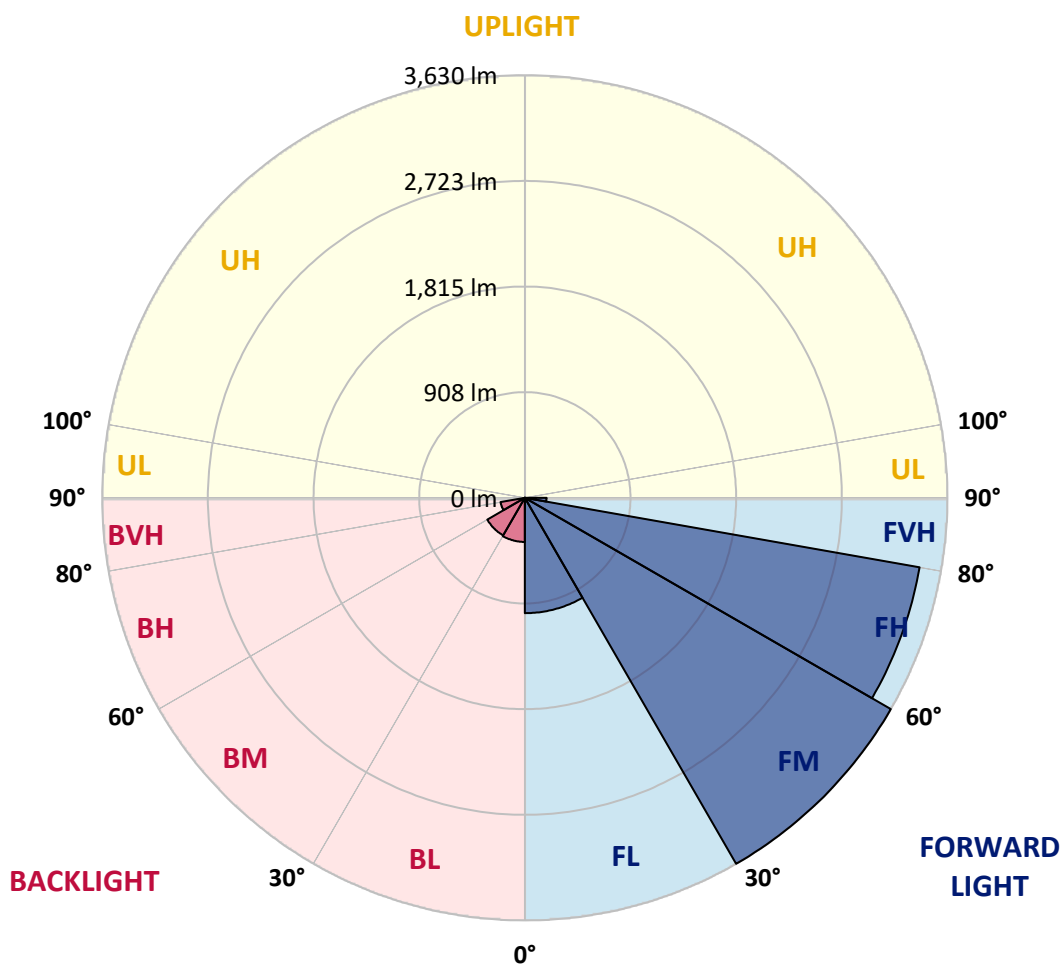


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.9	10.8			
FM (30°-60°)	3630.1	39.4			
FH (60°-80°)	3443.6	37.4			G2/5000
FVH (80°-90°)	186.4	2.0			G2/225
BL (0°-30°)	379.3	4.1	B1/500		
BM (30°-60°)	372.5	4.0	B1/1000		
BH (60°-80°)	211.5	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°	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9
2.5°	2912.8	2923.6	2897.7	2927.9	2899.8	2912.8	2897.7	2893.4	2895.5	2897.7	2880.4
5°	2776.7	2802.6	2813.4	2796.1	2837.2	2830.7	2856.6	2858.8	2848.0	2837.2	2839.3
7.5°	2597.3	2623.3	2634.1	2644.9	2685.9	2739.9	2774.5	2752.9	2770.2	2809.1	2750.7
10°	2467.7	2461.2	2459.0	2480.6	2558.4	2603.8	2662.1	2655.7	2698.9	2735.6	2688.1
12.5°	2307.8	2294.8	2333.7	2351.0	2420.1	2500.1	2545.5	2593.0	2636.2	2675.1	2621.1
15°	2188.9	2199.7	2214.9	2251.6	2301.3	2407.2	2474.2	2519.5	2597.3	2616.8	2595.2
17.5°	2093.8	2102.5	2124.1	2143.5	2206.2	2307.8	2413.6	2467.7	2549.8	2601.6	2534.7
20°	2096.0	2070.1	2070.1	2089.5	2124.1	2245.1	2357.5	2374.8	2487.1	2575.7	2530.3
22.5°	2098.2	2089.5	2070.1	2067.9	2083.0	2169.5	2284.0	2322.9	2443.9	2547.6	2493.6
25°	2128.4	2096.0	2098.2	2067.9	2074.4	2117.6	2208.4	2266.7	2405.0	2562.7	2474.2
27.5°	2154.3	2169.5	2139.2	2126.3	2089.5	2087.4	2163.0	2212.7	2385.6	2597.3	2487.1
30°	2212.7	2223.5	2223.5	2214.9	2180.3	2130.6	2147.9	2210.5	2346.7	2590.8	2465.5
32.5°	2309.9	2290.5	2316.4	2303.4	2258.1	2180.3	2195.4	2227.8	2370.4	2672.9	2500.1
35°	2342.3	2357.5	2392.0	2364.0	2348.8	2303.4	2273.2	2297.0	2405.0	2755.1	2551.9
37.5°	2441.7	2420.1	2443.9	2506.6	2521.7	2439.6	2381.2	2415.8	2534.7	2852.3	2599.5
40°	2450.4	2467.7	2510.9	2634.1	2649.2	2614.6	2567.1	2575.7	2664.3	2977.6	2718.3
42.5°	2493.6	2513.0	2601.6	2705.4	2787.5	2794.0	2759.4	2759.4	2835.0	3178.6	2850.1
45°	2577.9	2545.5	2660.0	2835.0	2953.9	2977.6	3023.0	3012.2	3072.7	3390.3	3096.5
47.5°	2610.3	2621.1	2746.4	2958.2	3094.3	3204.5	3280.1	3282.3	3312.6	3660.5	3416.3
50°	2716.2	2714.0	2865.3	3061.9	3262.9	3463.8	3610.8	3610.8	3608.6	3924.1	3690.7
52.5°	2856.6	2852.3	2969.0	3202.4	3463.8	3716.6	3911.1	3917.6	3967.3	4248.2	4006.2
55°	3085.7	3066.2	3178.6	3351.5	3664.8	3971.6	4308.7	4310.9	4272.0	4479.4	4233.1
57.5°	3278.0	3275.8	3368.7	3535.1	3889.5	4300.1	4691.2	4749.5	4626.3	4717.1	4414.6
60°	3228.3	3256.4	3448.7	3695.0	4127.2	4710.6	5103.9	5194.6	4998.0	4879.2	4550.7
62.5°	2919.3	2984.1	3193.7	3587.0	4328.1	5307.0	5672.2	5631.1	5192.5	5017.5	4717.1
65°	2100.3	2165.2	2424.5	3014.4	4094.8	5728.4	6419.8	6234.0	5538.2	5222.7	4939.7
67.5°	1236.0	1261.9	1424.0	1923.1	3061.9	5499.3	7327.4	7342.5	6218.9	5538.2	5324.3
70°	892.4	911.9	974.5	1134.4	1696.3	4310.9	7833.0	8226.3	7163.2	5901.2	5121.2
72.5°	685.0	685.0	790.9	944.3	1080.4	2582.2	7208.5	7997.2	7368.4	5553.3	4127.2
75°	492.7	505.6	620.2	812.5	996.1	1296.5	5311.3	6346.4	6244.8	4501.0	2882.6
77.5°	283.1	289.6	436.5	680.7	935.6	890.3	3282.3	4302.2	4423.2	2817.7	1249.0
80°	144.8	149.1	244.2	538.0	847.0	775.7	1957.7	2832.9	2402.8	819.0	289.6
82.5°	71.3	71.3	110.2	343.6	719.6	687.1	1151.7	1564.4	851.4	188.0	121.0
85°	23.8	25.9	49.7	194.5	520.8	414.9	704.4	743.3	285.2	71.3	67.0
87.5°	6.5	8.6	13.0	71.3	226.9	272.3	419.2	475.4	116.7	28.1	32.4
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°	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9	2860.9
2.5°	2815.6	2800.4	2783.2	2739.9	2705.4	2660.0	2629.7	2606.0	2560.6	2569.2	2549.8
5°	2787.5	2759.4	2660.0	2564.9	2478.5	2346.7	2255.9	2197.6	2150.0	2102.5	2137.1
7.5°	2737.8	2670.8	2515.2	2338.0	2154.3	1981.5	1808.6	1704.9	1629.3	1560.1	1558.0
10°	2653.5	2545.5	2301.3	2070.1	1787.0	1560.1	1339.7	1166.8	1054.5	972.4	970.2
12.5°	2558.4	2446.1	2139.2	1763.2	1437.0	1117.2	853.5	669.9	564.0	499.2	490.5
15°	2497.9	2333.7	1936.1	1491.0	1086.9	728.2	473.2	358.7	317.6	302.5	302.5
17.5°	2420.1	2232.1	1735.1	1207.9	754.1	421.4	306.8	276.6	274.4	270.1	265.8
20°	2387.7	2154.3	1555.8	963.7	477.5	298.2	263.6	257.1	257.1	252.8	248.5
22.5°	2301.3	2042.0	1365.6	706.6	317.6	261.5	248.5	239.9	235.5	231.2	235.5
25°	2262.4	1962.0	1186.3	488.3	259.3	233.4	226.9	218.2	211.8	209.6	209.6
27.5°	2236.5	1882.1	1011.3	339.3	229.0	213.9	201.0	194.5	185.8	177.2	177.2
30°	2217.0	1819.4	842.7	250.7	205.3	190.2	179.3	164.2	153.4	144.8	144.8
32.5°	2191.1	1746.0	674.2	213.9	185.8	170.7	151.3	138.3	123.2	116.7	116.7
35°	2199.7	1696.3	529.4	190.2	166.4	146.9	129.6	112.4	97.2	90.8	88.6
37.5°	2217.0	1659.5	401.9	170.7	149.1	127.5	108.0	88.6	80.0	71.3	71.3
40°	2290.5	1648.7	296.0	157.7	136.1	112.4	90.8	73.5	64.8	58.3	56.2
42.5°	2413.6	1663.8	229.0	142.6	123.2	95.1	75.6	60.5	51.9	45.4	43.2
45°	2571.4	1722.2	188.0	134.0	108.0	80.0	60.5	49.7	38.9	34.6	34.6
47.5°	2800.4	1812.9	164.2	123.2	95.1	67.0	51.9	38.9	30.3	25.9	25.9
50°	3059.7	1916.7	144.8	110.2	82.1	56.2	41.1	30.3	21.6	19.4	19.4
52.5°	3319.0	2048.5	134.0	101.6	71.3	45.4	32.4	21.6	15.1	13.0	13.0
55°	3591.3	2165.2	121.0	95.1	58.3	36.7	23.8	13.0	8.6	6.5	6.5
57.5°	3781.5	2210.5	105.9	82.1	45.4	28.1	17.3	8.6	4.3	2.2	2.2
60°	3917.6	2217.0	90.8	67.0	34.6	21.6	10.8	4.3	2.2	0.0	0.0
62.5°	4032.1	2230.0	77.8	51.9	25.9	15.1	6.5	2.2	0.0	0.0	0.0
65°	4259.0	2219.2	62.7	41.1	17.3	8.6	4.3	0.0	0.0	0.0	0.0
67.5°	4438.3	2111.1	49.7	28.1	10.8	4.3	2.2	0.0	0.0	0.0	0.0
70°	3926.2	1609.8	38.9	19.4	6.5	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	3083.5	1073.9	25.9	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	2022.5	533.7	19.4	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	786.5	140.5	13.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	190.2	47.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.1	17.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.7	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	4.3	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)