

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: P677137

Luminaire Tested: **CCW-SA-2E-735-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677137  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-735-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

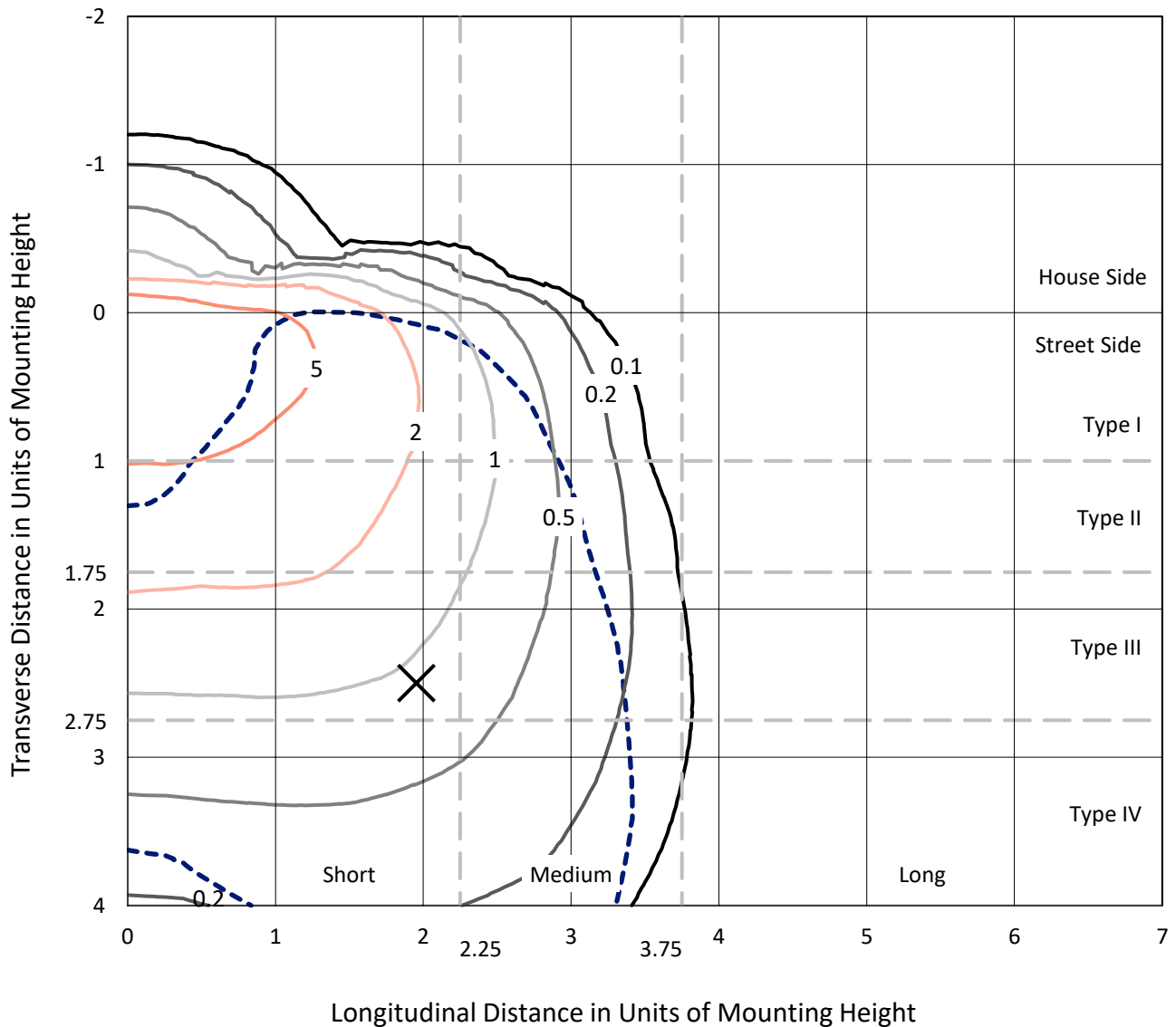
Lumens per Lamp: N/A  
Luminaire Lumens: 11139.6 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

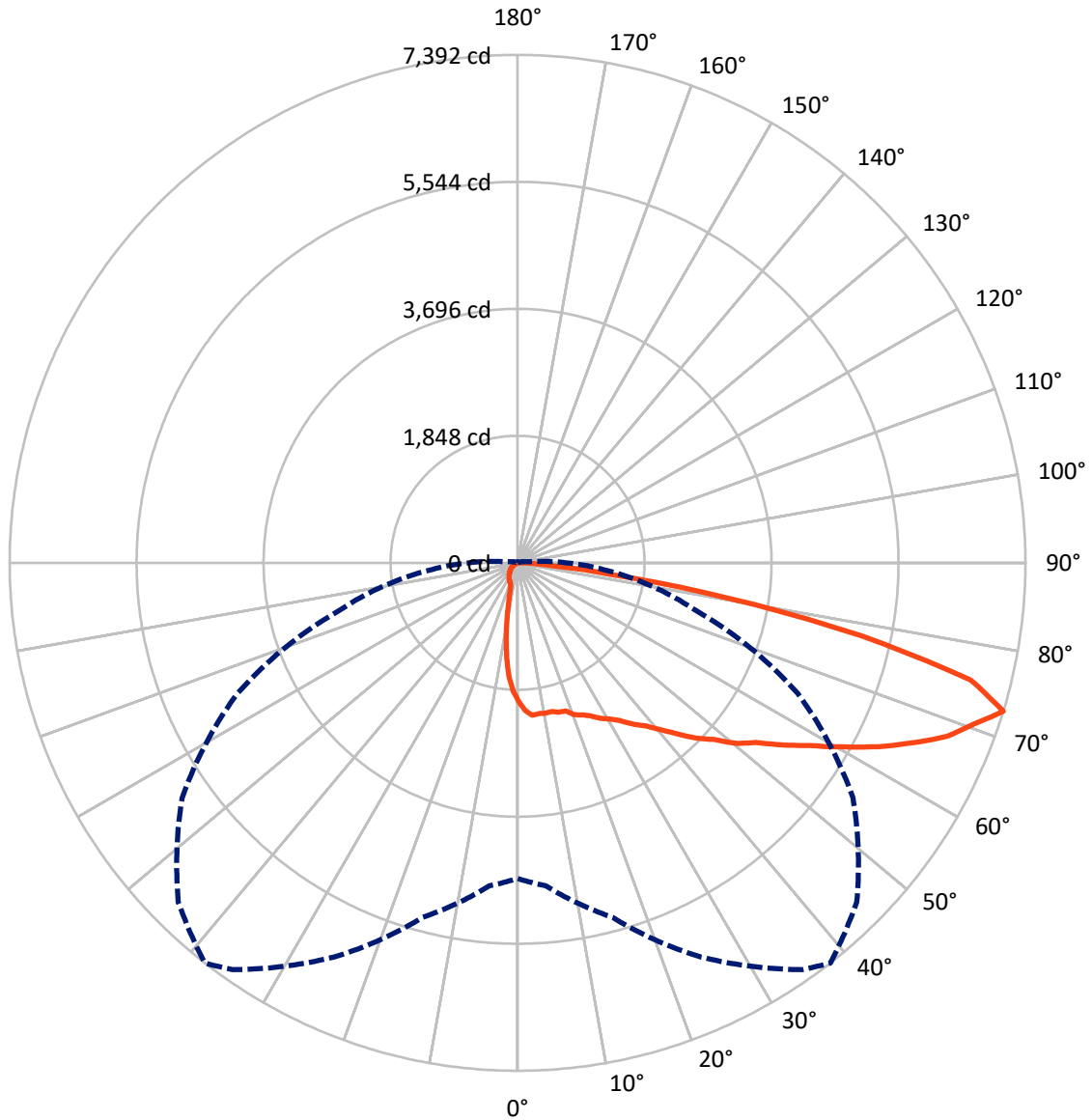
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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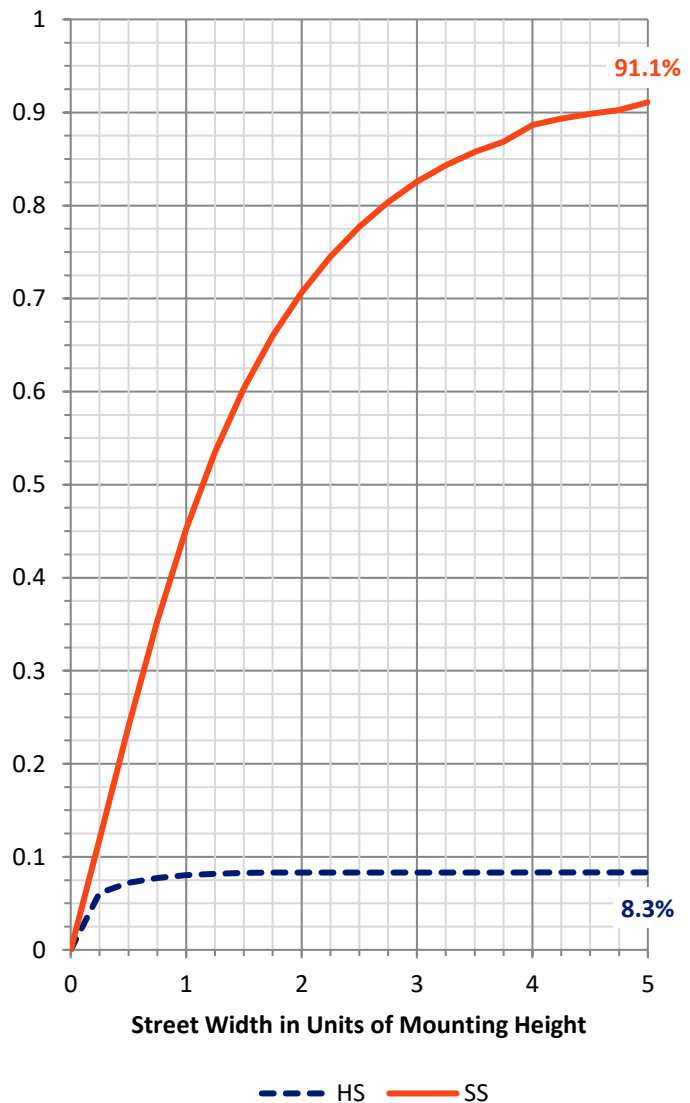
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	933.0	0.0	933.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	10206.6	0.0	10206.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	11139.6	0.0	11139.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.3	1.6
10°-20°	431.7	3.9
20°-30°	692.1	6.2
30°-40°	1044.9	9.4
40°-50°	1590.3	14.3
50°-60°	2238.9	20.1
60°-70°	2734.9	24.6
70°-80°	1985.9	17.8
80°-90°	244.6	2.2
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°	11139.6	100.0
0°-180°	11139.6	100.0

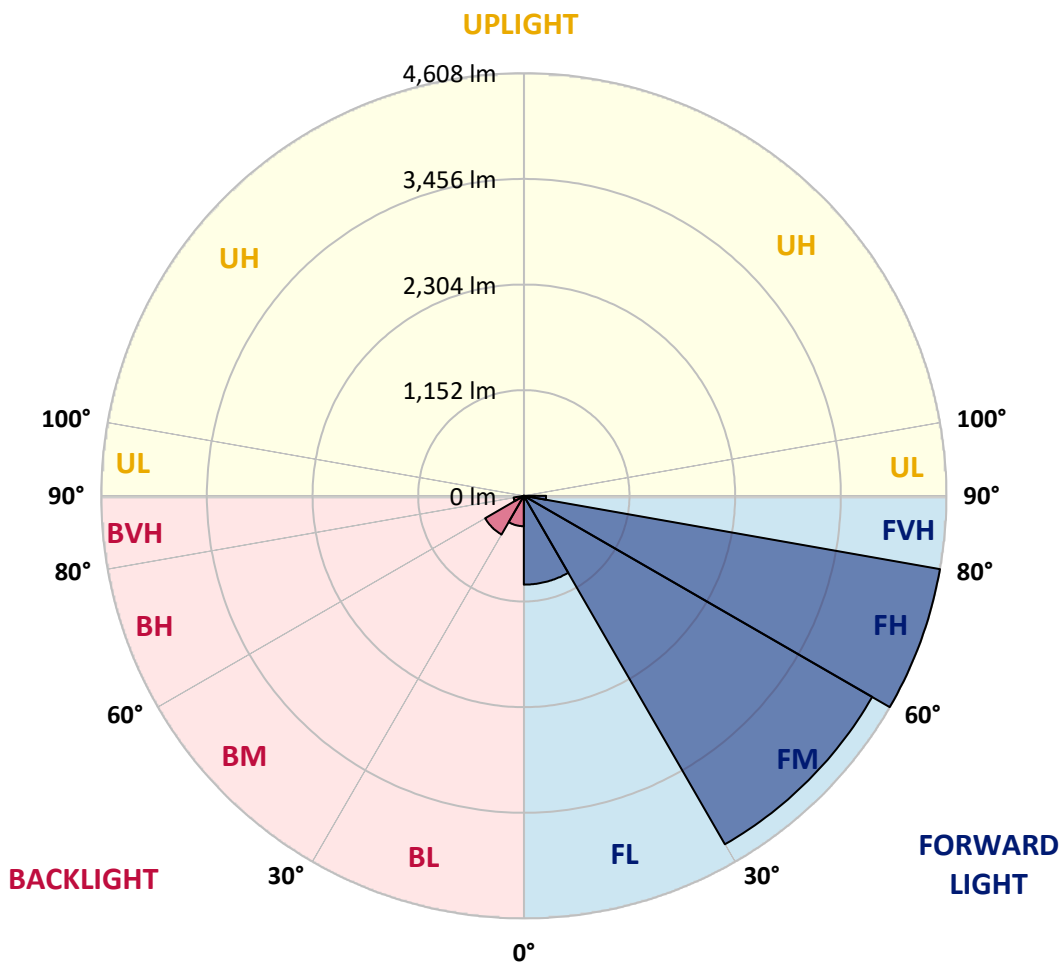


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.9	8.7			
FM (30°-60°)	4386.8	39.4			
FH (60°-80°)	4607.6	41.4			G2/5000
FVH (80°-90°)	243.3	2.2			G3/500
BL (0°-30°)	331.2	3.0	B1/500		
BM (30°-60°)	487.3	4.4	B1/1000		
BH (60°-80°)	113.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5
2.5°	2213.0	2213.0	2233.9	2213.0	2205.2	2155.6	2158.2	2132.0	2105.9	2069.3	2035.4
5°	2239.2	2257.5	2270.5	2252.2	2223.5	2228.7	2247.0	2197.4	2126.8	2082.4	2006.6
7.5°	2228.7	2267.9	2257.5	2247.0	2228.7	2215.7	2189.5	2168.6	2134.7	2092.9	2004.0
10°	2220.9	2233.9	2236.6	2228.7	2189.5	2226.1	2197.4	2163.4	2121.6	2072.0	1962.2
12.5°	2192.1	2192.1	2215.7	2197.4	2202.6	2220.9	2207.8	2200.0	2155.6	2113.8	2017.1
15°	2160.8	2171.2	2207.8	2236.6	2262.7	2254.8	2247.0	2223.5	2184.3	2137.3	2035.4
17.5°	2168.6	2173.9	2231.3	2283.6	2270.5	2265.3	2307.1	2257.5	2218.3	2166.0	2051.0
20°	2197.4	2213.0	2278.4	2346.3	2359.4	2359.4	2343.7	2314.9	2260.1	2189.5	2079.8
22.5°	2226.1	2231.3	2338.5	2424.7	2437.7	2403.8	2416.8	2333.2	2281.0	2241.8	2108.5
25°	2335.8	2325.4	2440.4	2508.3	2500.5	2466.5	2453.4	2380.3	2359.4	2288.8	2171.2
27.5°	2484.8	2440.4	2552.7	2594.5	2552.7	2563.2	2526.6	2448.2	2403.8	2362.0	2200.0
30°	2576.2	2602.4	2662.4	2704.3	2633.7	2636.3	2618.0	2531.8	2463.9	2474.3	2296.7
32.5°	2717.3	2735.6	2780.0	2798.3	2743.4	2738.2	2719.9	2652.0	2602.4	2591.9	2427.3
35°	2868.9	2902.8	2905.4	2910.7	2861.0	2881.9	2855.8	2759.1	2785.2	2803.5	2584.1
37.5°	3017.8	2986.4	3038.7	3062.2	3007.3	3007.3	3015.2	2949.9	2996.9	3051.8	2806.1
40°	3075.3	3088.3	3179.8	3161.5	3226.8	3187.6	3216.4	3200.7	3239.9	3365.3	3119.7
42.5°	3135.4	3151.0	3273.8	3307.8	3386.2	3399.3	3441.1	3443.7	3558.6	3765.0	3420.2
45°	3250.3	3224.2	3391.4	3475.0	3603.1	3639.6	3689.3	3731.1	3911.4	4154.4	3762.4
47.5°	3354.8	3318.3	3509.0	3676.2	3833.0	3840.8	3976.7	4021.1	4235.4	4512.3	4102.1
50°	3501.2	3514.2	3595.2	3882.6	4042.0	4133.5	4227.5	4373.8	4611.6	4906.8	4347.7
52.5°	3652.7	3639.6	3775.5	4057.7	4308.5	4342.5	4554.1	4718.7	4977.4	5199.5	4457.4
55°	3838.2	3853.9	3906.1	4277.2	4595.9	4676.9	4914.7	5087.1	5369.3	5324.9	4494.0
57.5°	4023.7	4008.0	4125.6	4522.8	4956.5	5016.6	5332.7	5434.6	5625.4	5408.5	4402.6
60°	4206.6	4235.4	4285.0	4799.7	5351.0	5439.9	5690.7	5742.9	5784.7	5447.7	4332.0
62.5°	4415.6	4347.7	4501.9	5092.4	5706.4	5891.9	6090.4	5884.0	5847.5	5377.1	4170.0
65°	4520.1	4541.1	4742.2	5426.8	6179.3	6315.1	6341.3	6074.8	5886.6	5220.4	4018.5
67.5°	4682.1	4710.9	4966.9	5769.1	6665.3	6741.0	6647.0	6247.2	5852.7	5016.6	3472.4
70°	4703.0	4773.6	5267.4	6127.0	6971.0	7036.3	6963.1	6362.2	5578.3	4214.5	2571.0
72.5°	4593.3	4718.7	5340.6	6330.8	7227.0	7391.6	6981.4	5957.2	4496.6	2688.6	1316.9
75°	3469.8	3574.3	4888.6	6027.7	6772.4	6811.6	6129.6	4546.3	2560.5	917.1	337.1
77.5°	1797.6	1977.9	3263.4	4606.4	5160.3	5118.5	4266.7	2678.1	880.5	240.4	135.9
80°	1032.1	1076.5	1426.6	2586.7	3245.1	3085.7	2359.4	1154.9	386.7	120.2	88.8
82.5°	509.5	572.2	768.2	1157.5	1622.6	1335.1	885.7	692.4	216.9	65.3	78.4
85°	109.7	115.0	391.9	553.9	658.4	433.7	303.1	582.7	78.4	39.2	75.8
87.5°	78.4	75.8	109.7	248.2	182.9	112.4	180.3	305.7	18.3	18.3	15.7
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°	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5	2014.5
2.5°	2014.5	1991.0	1964.8	1915.2	1902.1	1894.3	1849.9	1847.3	1839.4	1821.1	1813.3
5°	1959.6	1920.4	1870.8	1818.5	1776.7	1700.9	1609.5	1562.5	1505.0	1507.6	1489.3
7.5°	1951.8	1878.6	1808.1	1698.3	1565.1	1424.0	1282.9	1191.4	1126.1	1086.9	1094.8
10°	1915.2	1860.3	1745.4	1541.6	1327.3	1113.1	932.8	796.9	718.5	658.4	676.7
12.5°	1930.9	1823.7	1661.7	1390.0	1084.3	820.4	595.7	465.1	407.6	386.7	391.9
15°	1920.4	1823.7	1612.1	1225.4	851.8	556.5	386.7	344.9	334.4	334.4	329.2
17.5°	1951.8	1844.6	1528.5	1063.4	611.4	371.0	331.8	324.0	316.1	316.1	316.1
20°	1996.2	1855.1	1471.0	883.1	431.1	326.6	310.9	305.7	303.1	303.1	300.5
22.5°	1998.8	1844.6	1363.9	684.6	331.8	308.3	295.2	292.6	292.6	287.4	287.4
25°	2014.5	1855.1	1248.9	514.7	308.3	290.0	279.6	277.0	279.6	277.0	274.3
27.5°	2053.7	1873.4	1134.0	376.2	290.0	274.3	266.5	263.9	263.9	263.9	258.7
30°	2103.3	1873.4	1005.9	310.9	274.3	258.7	250.8	248.2	245.6	245.6	245.6
32.5°	2207.8	1933.5	849.2	277.0	253.4	240.4	232.5	232.5	229.9	229.9	227.3
35°	2338.5	1975.3	689.8	256.1	235.2	222.1	214.2	214.2	211.6	211.6	209.0
37.5°	2500.5	2079.8	527.8	240.4	216.9	203.8	196.0	196.0	196.0	193.3	193.3
40°	2730.4	2186.9	391.9	219.5	198.6	185.5	180.3	177.7	175.1	175.1	169.8
42.5°	2976.0	2351.5	292.6	203.8	182.9	172.4	164.6	156.8	156.8	148.9	148.9
45°	3242.5	2495.2	237.8	185.5	167.2	154.2	146.3	141.1	133.3	128.0	128.0
47.5°	3503.8	2584.1	209.0	164.6	151.5	141.1	133.3	122.8	112.4	109.7	107.1
50°	3715.4	2610.2	185.5	148.9	138.5	128.0	117.6	104.5	94.1	88.8	86.2
52.5°	3715.4	2466.5	167.2	133.3	125.4	115.0	101.9	86.2	73.2	67.9	65.3
55°	3715.4	2239.2	148.9	122.8	112.4	104.5	86.2	70.5	57.5	49.6	47.0
57.5°	3660.5	1964.8	133.3	109.7	99.3	88.8	73.2	54.9	41.8	34.0	34.0
60°	3509.0	1677.4	115.0	96.7	86.2	73.2	57.5	39.2	26.1	18.3	18.3
62.5°	3315.6	1335.1	99.3	81.0	70.5	60.1	44.4	26.1	10.5	5.2	5.2
65°	2978.6	985.0	86.2	67.9	54.9	44.4	28.7	10.5	0.0	0.0	0.0
67.5°	2458.6	658.4	67.9	54.9	47.0	31.4	18.3	2.6	0.0	0.0	0.0
70°	1729.7	373.6	52.3	39.2	34.0	20.9	5.2	0.0	0.0	0.0	0.0
72.5°	710.7	164.6	36.6	28.7	23.5	10.5	0.0	0.0	0.0	0.0	0.0
75°	193.3	73.2	23.5	15.7	13.1	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	112.4	49.6	10.5	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.8	23.5	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.8	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	0.0	0.0	0.0	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)