

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: P677148

Luminaire Tested: **CCW-SA-2E-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677148
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

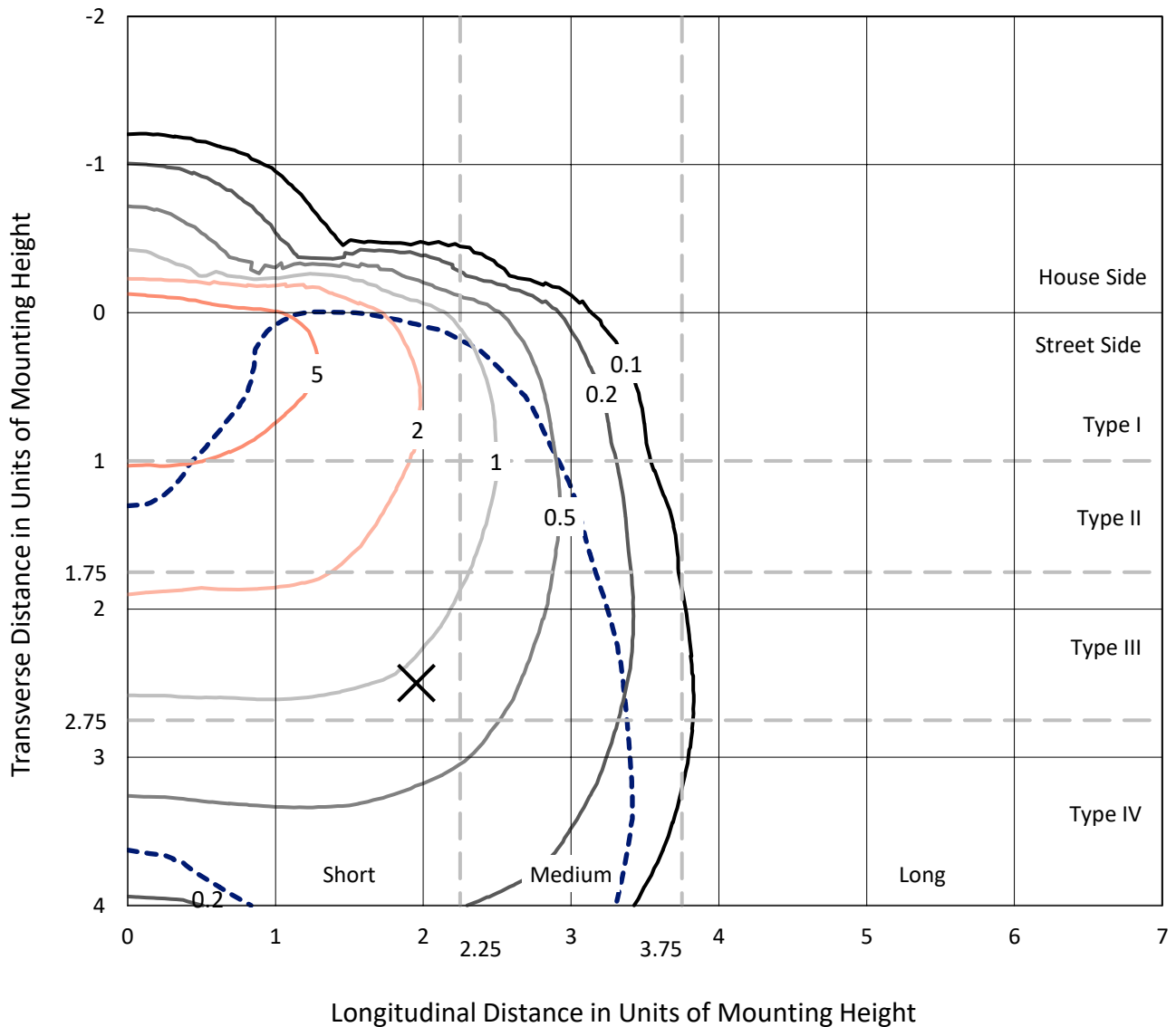
Lumens per Lamp: N/A
Luminaire Lumens: 11294.3 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P677148
 CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

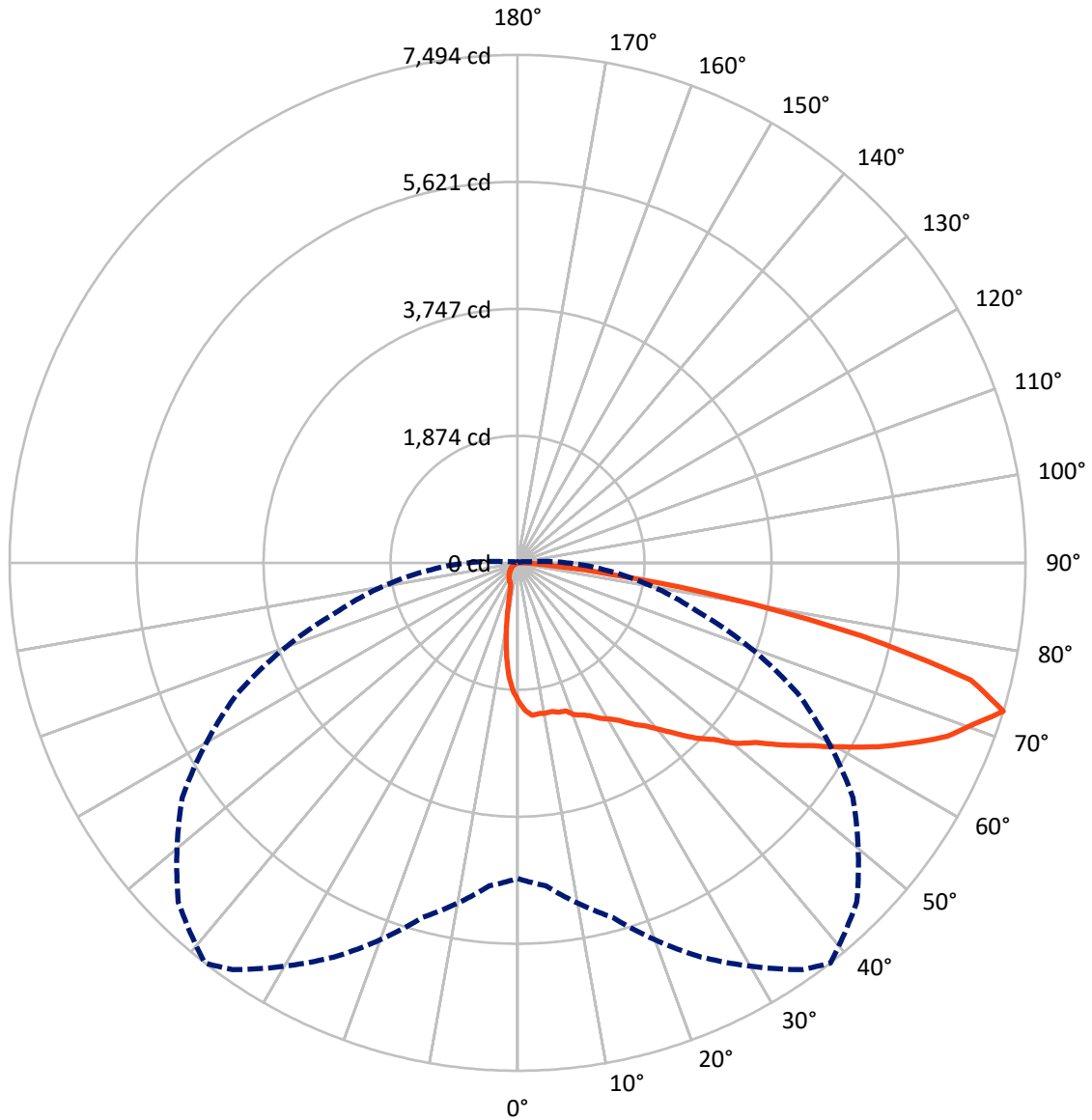
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P677148
CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677148
 CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

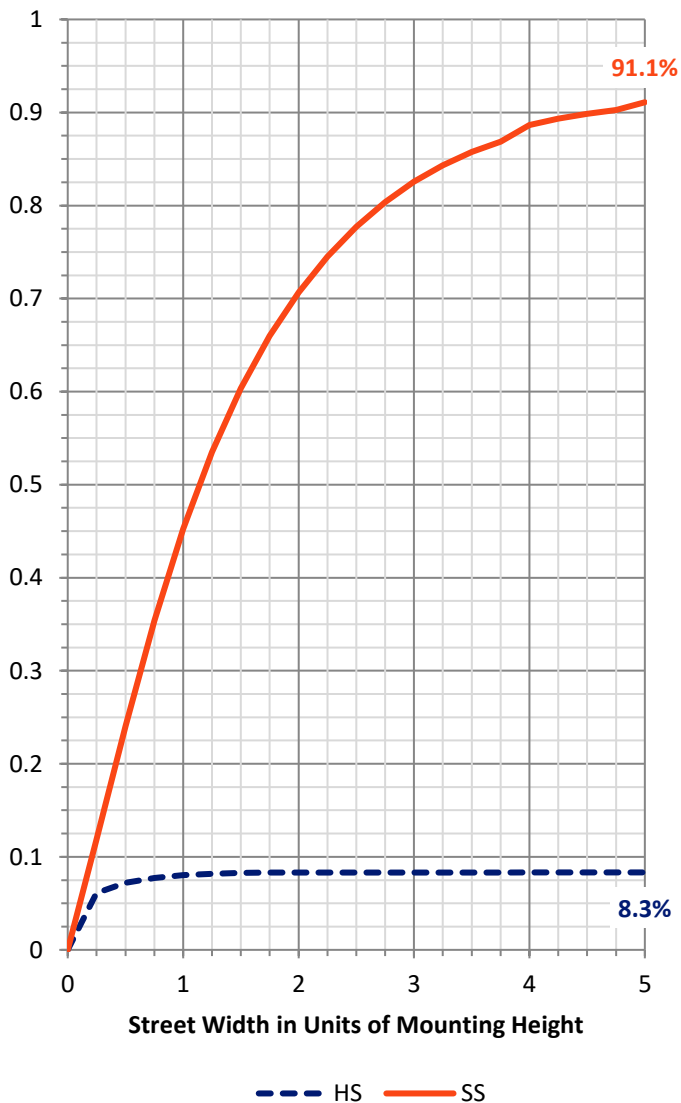
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.9	0.0	945.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10348.4	0.0	10348.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	11294.3	0.0	11294.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.6
10°-20°	437.7	3.9
20°-30°	701.7	6.2
30°-40°	1059.4	9.4
40°-50°	1612.4	14.3
50°-60°	2270.0	20.1
60°-70°	2772.9	24.6
70°-80°	2013.5	17.8
80°-90°	248.0	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°	11294.3	100.0
0°-180°	11294.3	100.0

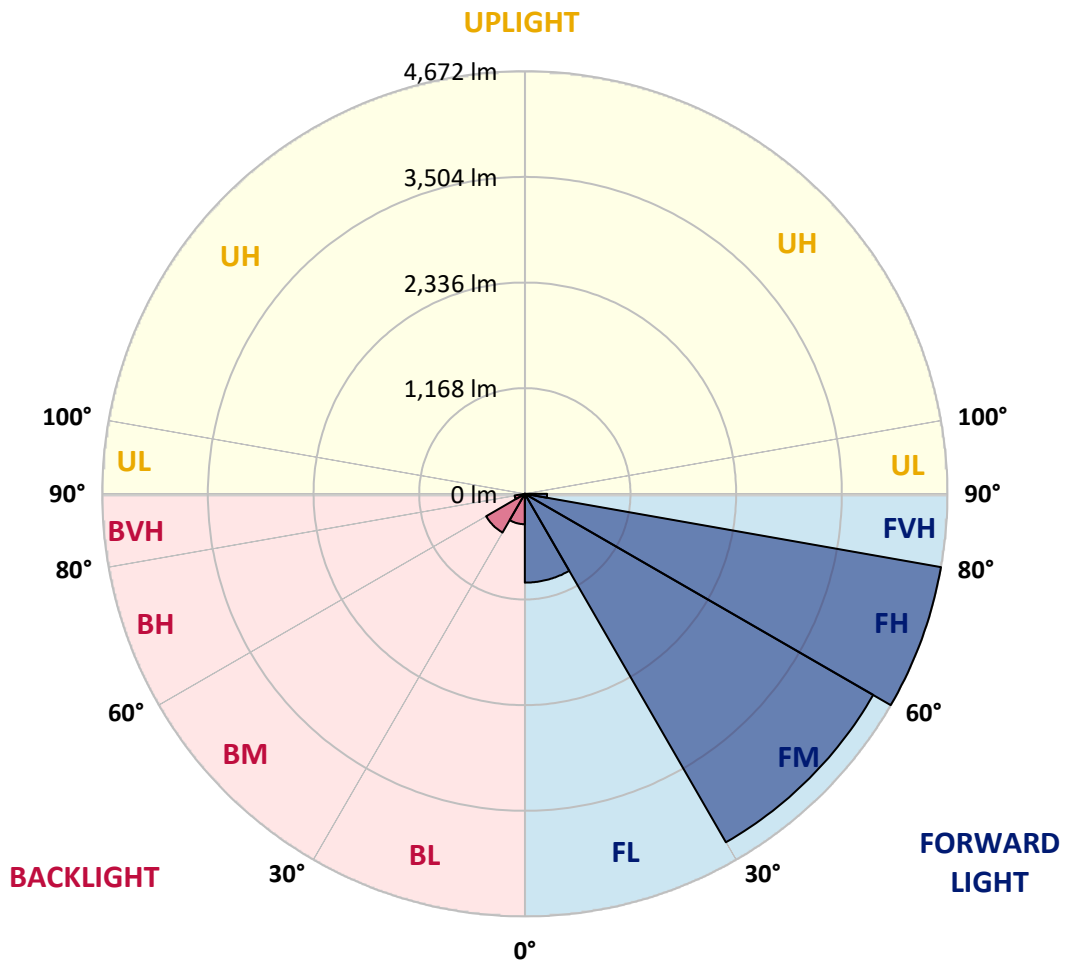


REPORT NUMBER: P677148
 CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.4	8.7			
FM (30°-60°)	4447.7	39.4			
FH (60°-80°)	4671.6	41.4			G2/5000
FVH (80°-90°)	246.7	2.2			G3/500
BL (0°-30°)	335.8	3.0	B1/500		
BM (30°-60°)	494.1	4.4	B1/1000		
BH (60°-80°)	114.7	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





REPORT NUMBER: P677148

CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5
2.5°	2243.8	2243.8	2265.0	2243.8	2235.8	2185.5	2188.2	2161.7	2135.2	2098.1	2063.6
5°	2270.3	2288.8	2302.1	2283.5	2254.4	2259.7	2278.2	2227.9	2156.4	2111.3	2034.5
7.5°	2259.7	2299.4	2288.8	2278.2	2259.7	2246.4	2219.9	2198.7	2164.3	2121.9	2031.9
10°	2251.7	2265.0	2267.6	2259.7	2219.9	2257.0	2227.9	2193.5	2151.1	2100.7	1989.5
12.5°	2222.6	2222.6	2246.4	2227.9	2233.2	2251.7	2238.5	2230.5	2185.5	2143.1	2045.1
15°	2190.8	2201.4	2238.5	2267.6	2294.1	2286.2	2278.2	2254.4	2214.6	2167.0	2063.6
17.5°	2198.7	2204.0	2262.3	2315.3	2302.1	2296.8	2339.2	2288.8	2249.1	2196.1	2079.5
20°	2227.9	2243.8	2310.0	2378.9	2392.1	2392.1	2376.2	2347.1	2291.5	2219.9	2108.7
22.5°	2257.0	2262.3	2370.9	2458.4	2471.6	2437.2	2450.4	2365.6	2312.7	2272.9	2137.8
25°	2368.3	2357.7	2474.3	2543.1	2535.2	2500.7	2487.5	2413.3	2392.1	2320.6	2201.4
27.5°	2519.3	2474.3	2588.2	2630.6	2588.2	2598.8	2561.7	2482.2	2437.2	2394.8	2230.5
30°	2612.0	2638.5	2699.4	2741.8	2670.3	2672.9	2654.4	2567.0	2498.1	2508.7	2328.6
32.5°	2755.1	2773.6	2818.6	2837.2	2781.5	2776.3	2757.7	2688.8	2638.5	2627.9	2461.0
35°	2908.7	2943.1	2945.8	2951.1	2900.8	2922.0	2895.5	2797.4	2823.9	2842.5	2620.0
37.5°	3059.7	3027.9	3080.9	3104.7	3049.1	3049.1	3057.1	2990.8	3038.5	3094.1	2845.1
40°	3118.0	3131.2	3223.9	3205.4	3271.6	3231.9	3261.0	3245.1	3284.9	3412.0	3163.0
42.5°	3178.9	3194.8	3319.3	3353.8	3433.2	3446.5	3488.9	3491.5	3608.1	3817.3	3467.7
45°	3295.5	3269.0	3438.5	3523.3	3653.1	3690.2	3740.5	3782.9	3965.7	4212.1	3814.7
47.5°	3401.4	3364.4	3557.7	3727.3	3886.2	3894.2	4031.9	4077.0	4294.2	4575.0	4159.1
50°	3549.8	3563.0	3645.2	3936.6	4098.1	4190.9	4286.2	4434.6	4675.7	4975.0	4408.1
52.5°	3703.4	3690.2	3827.9	4114.0	4368.4	4402.8	4617.4	4784.3	5046.5	5271.7	4519.4
55°	3891.5	3907.4	3960.4	4336.6	4659.8	4741.9	4982.9	5157.8	5443.9	5398.9	4556.4
57.5°	4079.6	4063.7	4182.9	4585.6	5025.3	5086.3	5406.8	5510.1	5703.5	5483.6	4463.7
60°	4265.0	4294.2	4344.5	4866.4	5425.3	5515.4	5769.7	5822.7	5865.1	5523.4	4392.2
62.5°	4477.0	4408.1	4564.4	5163.1	5785.6	5973.7	6175.0	5965.8	5928.7	5451.8	4228.0
65°	4582.9	4604.1	4808.1	5502.2	6265.1	6402.9	6429.4	6159.1	5968.4	5292.9	4074.3
67.5°	4747.2	4776.3	5035.9	5849.2	6757.8	6834.7	6739.3	6334.0	5934.0	5086.3	3520.6
70°	4768.4	4839.9	5340.6	6212.1	7067.8	7134.0	7059.8	6450.5	5655.8	4273.0	2606.7
72.5°	4657.1	4784.3	5414.8	6418.8	7327.4	7494.3	7078.4	6039.9	4559.1	2725.9	1335.1
75°	3518.0	3624.0	4956.5	6111.5	6866.5	6906.2	6214.8	4609.4	2596.1	929.8	341.7
77.5°	1822.6	2005.4	3308.7	4670.4	5232.0	5189.6	4326.0	2715.3	892.7	243.7	137.8
80°	1046.4	1091.4	1446.4	2622.6	3290.2	3128.6	2392.1	1170.9	392.1	121.9	90.1
82.5°	516.6	580.2	778.8	1173.5	1645.1	1353.7	898.0	702.0	219.9	66.2	79.5
85°	111.3	116.6	397.4	561.6	667.6	439.7	307.3	590.7	79.5	39.7	76.8
87.5°	79.5	76.8	111.3	251.7	185.4	113.9	182.8	309.9	18.5	18.5	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677148

CATALOG NUMBER: CCW-SA-2E-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5	2042.5
2.5°	2042.5	2018.6	1992.1	1941.8	1928.5	1920.6	1875.6	1872.9	1865.0	1846.4	1838.5
5°	1986.8	1947.1	1896.8	1843.8	1801.4	1724.6	1631.8	1584.2	1525.9	1528.5	1510.0
7.5°	1978.9	1904.7	1833.2	1721.9	1586.8	1443.8	1300.7	1208.0	1141.8	1102.0	1110.0
10°	1941.8	1886.2	1769.6	1563.0	1345.7	1128.5	945.7	808.0	728.5	667.6	686.1
12.5°	1957.7	1849.1	1684.8	1409.3	1099.4	831.8	604.0	471.5	413.3	392.1	397.4
15°	1947.1	1849.1	1634.5	1242.4	863.6	564.3	392.1	349.7	339.1	339.1	333.8
17.5°	1978.9	1870.3	1549.7	1078.2	619.9	376.2	336.4	328.5	320.5	320.5	320.5
20°	2023.9	1880.9	1491.4	895.4	437.1	331.1	315.2	309.9	307.3	307.3	304.6
22.5°	2026.6	1870.3	1382.8	694.1	336.4	312.6	299.3	296.7	296.7	291.4	291.4
25°	2042.5	1880.9	1266.3	521.9	312.6	294.0	283.5	280.8	283.5	280.8	278.2
27.5°	2082.2	1899.4	1149.7	381.5	294.0	278.2	270.2	267.6	267.6	267.6	262.3
30°	2132.5	1899.4	1019.9	315.2	278.2	262.3	254.3	251.7	249.0	249.0	249.0
32.5°	2238.5	1960.3	861.0	280.8	257.0	243.7	235.8	235.8	233.1	233.1	230.5
35°	2370.9	2002.7	699.4	259.6	238.4	225.2	217.2	217.2	214.6	214.6	211.9
37.5°	2535.2	2108.7	535.1	243.7	219.9	206.6	198.7	198.7	198.7	196.0	196.0
40°	2768.3	2217.3	397.4	222.5	201.3	188.1	182.8	180.1	177.5	177.5	172.2
42.5°	3017.3	2384.2	296.7	206.6	185.4	174.8	166.9	158.9	158.9	151.0	151.0
45°	3287.5	2529.9	241.1	188.1	169.5	156.3	148.3	143.1	135.1	129.8	129.8
47.5°	3552.4	2620.0	211.9	166.9	153.6	143.1	135.1	124.5	113.9	111.3	108.6
50°	3767.0	2646.4	188.1	151.0	140.4	129.8	119.2	106.0	95.4	90.1	87.4
52.5°	3767.0	2500.7	169.5	135.1	127.2	116.6	103.3	87.4	74.2	68.9	66.2
55°	3767.0	2270.3	151.0	124.5	113.9	106.0	87.4	71.5	58.3	50.3	47.7
57.5°	3711.4	1992.1	135.1	111.3	100.7	90.1	74.2	55.6	42.4	34.4	34.4
60°	3557.7	1700.7	116.6	98.0	87.4	74.2	58.3	39.7	26.5	18.5	18.5
62.5°	3361.7	1353.7	100.7	82.1	71.5	60.9	45.0	26.5	10.6	5.3	5.3
65°	3020.0	998.7	87.4	68.9	55.6	45.0	29.1	10.6	0.0	0.0	0.0
67.5°	2492.8	667.6	68.9	55.6	47.7	31.8	18.5	2.6	0.0	0.0	0.0
70°	1753.7	378.8	53.0	39.7	34.4	21.2	5.3	0.0	0.0	0.0	0.0
72.5°	720.6	166.9	37.1	29.1	23.8	10.6	0.0	0.0	0.0	0.0	0.0
75°	196.0	74.2	23.8	15.9	13.2	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	113.9	50.3	10.6	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.1	23.8	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.1	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	76.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	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)